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## **Professor Gabriel Andrés Wainer**

Correspondence language: English

Sex: Male

### **Contact Information**

The primary information is denoted by (\*)

#### **Address**

Primary Affiliation (\*)

1125 Colonel By Dr.  
Ottawa Ontario K1S 5B6  
Canada

#### **Telephone**

Work (\*)                      613-5202600 extension: 1957

#### **Email**

Work (\*)                      gwainer@sce.carleton.ca

#### **Website**

Personal                      <http://www.sce.carleton.ca/faculty/wainer>  
Social Media                <https://www.facebook.com/pages/CDPlusPlus/209942572397637?fref=nf>  
Social Media                [https://twitter.com/ARSLab\\_CU](https://twitter.com/ARSLab_CU)

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Protected when completed

## Professor Gabriel Wainer

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### Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes	Yes
Italian	Yes	No	No	Yes	Yes
Portuguese	Yes	No	Yes	Yes	Yes
Spanish; Castilian	Yes	Yes	Yes	Yes	Yes

### Degrees

- 1998/3      Doctorate, Software Engineering, Université D'Aix-Marseille III (D'Economie & Sci)  
Degree Status: Completed  
Thesis Title: Discrete-event cellular models with explicit delays (in cotutelle with UBA)  
Supervisors: Norbert Giambiasi, 1995/9 - 1998/12
- 1993/3      Master's Equivalent, Licenciata in Computer Science, Universidad de Buenos Aires  
Degree Status: Completed  
Thesis Title: An environment for development of SCADA systems (in Spanish)  
Supervisors: Guillermo Delbue, 1991/9 - 1993/3

### Credentials

- 2011/7      Limited License for Faculty Members, Professional Engineers of Ontario
- 2002/7      Certified Professional on Modeling and Simulation. Charter Group Member, Modeling & Simulation Professional Certification Commission (M&SPCC)  
Research Disciplines: Computer Engineering and Software Engineering

### Recognitions

- 2019/11      Outstanding Engineering Award  
IEEE (Ottawa Section)  
Honor  
For innovative and outstanding contributions to the development of modelling and simulation of discrete-event dynamic systems

- 2019/7 Best Paper Award Nominee  
Society for Modeling and Information International  
Prize / Award  
The paper "Analytics And Visualization Of Spatial Models As A Service". B. St-Aubin\*, E. Yammine\*, M. Nayef\*, G. Wainer was a finalist for the Best Paper Award at the SummerSim Multiconference. Berlin, Germany (4 papers nominated of 127 submissions)
- 2018/4 Best Paper Award  
Society for Modeling and Information International  
Prize / Award  
The paper "Analizing the effect of LTE-A Transmission Parameters on Video Streaming Quality of Experience" (by A. Al-Habashna, S. Fernandes, G. Wainer) obtained the Best Paper Award in CNS'18 (SpringSim'18).
- 2018/4 Runner-up Best Paper Award  
Society for Modeling and Information International  
Prize / Award  
The paper "Analizing the effect of LTE-A Transmission Parameters on Video Streaming Quality of Experience" (by A. Al-Habashna, S. Fernandes, G. Wainer) obtained the Runner-Up Overall Best Paper Award in SpringSim'18.
- 2018/2 ACM Recognition of Service Award  
Association for Computer Machinery  
Honor  
In Appreciation for Contributions to ACM
- 2017/12 Nepean's Canada 150th Anniversary Medal.  
Parliament of Canada - Nepean  
Honor  
The medal was given in the 150 anniversary of Canadian Confederation to recognize people who have made a difference in the community or excelled in their professional life in the riding of Nepean, ON, Canada
- 2017/4 Runner-up Best Paper Award  
Society for Modeling and Simulation International  
Prize / Award  
The paper "Formal Modeling and Simulation To Analyze The Dynamics Of Malware Propagation In Networks Using Cell-DEVS" (by B. Kazi, G. Wainer) obtained the runner-up Best Paper Award in CNS'17 (SpringSim 2017). Virginia Beach, VA
- 2017/4 Best Paper Award  
Society for Modeling and Simulation International  
Prize / Award  
the paper "Context-sensitive Personal Spaces for Dense Crowd Flow" (by O. Hesham, G. Wainer) obtained the Best Paper Award in SimAUD 2017, Toronto, ON. (130 submissions).
- 2016/7 Best Paper Award  
Society for Modeling and Simulation International  
Prize / Award  
The paper ""Centroidal Particles for Interactive Crowd Simulation" (by \*O. Hesham and G. Wainer) obtained the Best Paper Award at the Summer Computer Simulation Conference. Montréal, QC (of 99 submissions)

- 2016/4 Best Paper Award  
Society for Computer Simulation International  
Prize / Award  
The paper "Centroidal Particles for Interactive Crowd Simulation" (by \*O. Hesham and G. Wainer) obtained the Overall Multiconference Best Paper Award at the SummerSim Multiconference. (of 175 submissions)
- 2016/4 Fellow, the Society for Modeling and Simulation International (SCS).  
Society for Modeling and Simulation International  
Honor  
A Fellow is recognized by his/her unusual distinction in the profession, as well as dedication and contributions to the field. The accomplishments honored must have contributed importance to the advancement or application of modeling and simulation, which have brought significant value to the society.
- 2015/7 Distinguished Service Award  
Society for Modeling and Simulation International  
Prize / Award  
The SCS Distinguished Service Award recognizes notable service to the society by a member at a level of dedication and achievement that is rarely seen. The award is given to a member who has made a series of significant contributions to SCS over a period of five to 10 years.
- 2015/5 Best Paper Award. Symposium on Information Control in Manufacturing, INCOM 2015  
Doctoral Symposium.  
IFAC/IFIP/IFORS  
Prize / Award  
"Applying Complex Network Theory in the Assessment of Organizational Resilience". C. Ruiz\*, A. López, G. Wainer.
- 2015/4 Honorable Mention. "Mobile Simulation: Bringing Simulations to Smartphones". M. Etemad\*, S. Wang\*, G. Wainer. Mobile App competition paper. Spring Simulation Conference. Alexandria, VA.  
The Society for Modeling and Simulation International (SCS)  
Prize / Award
- 2014/5 Research Achievement Award  
Carleton University  
Prize / Award  
The Carleton University Research Achievement Award was established in 1989 to enhance the quality of research and to recognize research excellence.
- 2014/3 - 2015/3 Nominated by my students for a Capital Educator's Award (2014 and 2015)  
Ottawa Network for Education  
Distinction
- 2013/9 Distinguished Professional Award  
The Society for Modeling and Simulation International (SCS)  
Prize / Award  
The award recognized variety of Prof. Wainer's technical contributions to the modeling and simulation discipline which have been widely disseminated in technical literature.
- 2013/1 Carleton University Faculty Graduate Mentoring Award  
Carleton University  
Prize / Award  
These award recognized Prof. Wainer for rendering exceptional service to graduate students as supervisor and research mentor, and his effect on the careers of his students which is frequently transformational.

- 2012/4 Best Symposium Award - SpringSim 2012. Chair: G. Wainer  
The Society for Modeling and Simulation International (SCS)  
Prize / Award  
Symposium of Theory of Modeling and Simulation
- 2011/7 Runner-up Best Paper Award - SCS/ACM Summer Computer Simulation Conference.  
Society for Modeling and Simulation International (SCS)  
Prize / Award  
"VCELL: A 3D Real-time Visual Simulation in Support of Combat"; A. Ahmed\*, M. Moallemi\*, G. Wainer, S. Mahmoud (120 submissions)
- 2011/4 Best Paper Award - SCS/ACM Symposium of Theory of Modeling and Simulation 2011  
SpringSim - The Society for Modeling and Simulation International (SCS)  
Prize / Award  
"I-DEVS: a framework for imprecise computing in DEVS". M. Moallemi\* and G. Wainer (91 submissions).
- 2011/4 Outstanding Professional Contribution Award  
The Society for Modeling and Simulation International (SCS)  
Prize / Award  
For Professor Wainer's contributions to advancing the state-of-the-art of discrete-event simulation and real-time simulation
- 2011/2 Top-3 ranked Author  
Microsoft Academic Research site  
Citation  
Cited as Top-3 ranked Author in the field of Simulation (Last 10 years) by the Microsoft Academic Research site(February 1, 2011)
- 2010/7 Runner-up Best Paper Award. SCS/ACM Summer Computer Simulation Conference.  
SummerSim - The Society for Modeling and Simulation International (SCS)  
Prize / Award  
"Applying the TPS Method To Modeling And Simulation Of Biological Systems"; R. Goldstein\*, N. Farran\*, H. Yigang\*, S. Lissari\*, G. Wainer (152 submissions)
- 2010/4 Runner-up Best Paper Award for SCS/ACM Springsim.  
SpringSim - The Society for Modeling and Simulation International (SCS)  
Prize / Award  
"Advanced IDE for Modeling and Simulation of Discrete Event Systems" M. Bonaventura\*, G. Wainer, R. Castro\* (350 submissions).
- 2010/4 Runner-up Best Paper Award. Symposium of Theory of Modeling and Simulation.  
SpringSim - The Society for Modeling and Simulation International (SCS)  
Prize / Award  
"Rational Time-Advance DEVS (RTA-DEVS)"; H. Saadawi\*, G. Wainer (94 submissions).
- 2010/4 First Bernard P. Zeigler DEVS Modeling and Simulation Award  
The Society for Modeling and Simulation International (SCS)  
Prize / Award  
In recognition of the 40th anniversary of the DEVS framework which was invented by Prof. Bernard Zeigler, this award recognizes high-impact innovations in modeling and simulation methods, applications, and tools.
- 2008/7 Finalist of the 2008 International Services Computing Contest.  
Institute of Electrical and Electronic Engineers (IEEE)  
Distinction  
"Distributed Simulation and Web Map Mash-Up for Forest Fire Spread"; Y. Harzallah\*, V. Michel\*, Q. Liu\*, G. Wainer, Y. Yan.

2008/3	Senior Member of IEEE Institute of Electrical and Electronic Engineers (IEEE) Honor Senior Member of IEEE
2007/7	SCS SummerSim Leadership Award Society for Modeling and Simulation International (SCS) Prize / Award
2005/5 - 2006/4	Carleton University Research Achievement Award Carleton University Prize / Award
2003/7	Senior Member of the Society for Modeling and Simulation International SCS Honor
1992/3	Best Paper Award at the 6th Essay Contest of the CICC (Canadian dollar) Prize / Award

## User Profile

Fields of Application: Communication and Information Technologies, Environment

Areas of Research: Modelization and Simulation, Software Development, Distributed and Simultaneous Processing

Research Specialization Keywords: Discrete-Event Modelling, Discrete-Event Simulation, Distributed Simulation, Parallel Simulation, Real Time Simulation, Real-Time Systems, Simulation As A Service

Research Disciplines: Computer Engineering and Software Engineering, Computer Science

## Employment

2015/7	Associate Chair for Graduate Studies Systems and Computer Engineering, Carleton University
2012/7	Professor Systems and Computer Engineering, Carleton University Full-time, Professor Tenure Status: Tenure
2017/7 - 2018/7	Visiting Researcher Departamento de Eletrotécnica, Federal University of Goias (UFG) and Federal Institute of Goias (IFG). Part-time Tenure Status: Non Tenure Track
2015/7 - 2015/8	Invited Visiting Professor Computer Science, Universidad de Buenos Aires Part-time, Professor Tenure Status: Non Tenure Track
2015/7 - 2015/8	Visiting Researcher I3S Laboratory, Sophia Antipolis, Centre national de la recherche scientifique Part-time Tenure Status: Non Tenure Track

2015/6 - 2015/7 Visiting Professor - Excellence Campus Program  
IMS, Université de Bordeaux I  
Part-time, Professor  
Tenure Status: Non Tenure Track

2013/11 - 2014/1 Visiting Professor  
Applied Mathematics Institute, Universidad de Buenos Aires  
Full-time, Professor  
Tenure Status: Non Tenure Track

2013/5 - 2013/9 Visiting Researcher  
OASIS Team, INRIA Sophia-Antipolis  
Part-time  
Tenure Status: Non Tenure Track

2012/7 - 2012/9 Visiting Professor  
Computer Science, Universidad de Buenos Aires  
Part-time  
Tenure Status: Non Tenure Track

2005/7 - 2012/7 Associate Professor  
Systems and Computer Engineering, Carleton University  
Full-time, Associate Professor  
Tenure Status: Tenure

2012/5 - 2012/6 Visiting Professor  
Computer Science, Polytechnic University of Catalonia – UPC  
Part-time  
Tenure Status: Non Tenure Track

2012/5 - 2012/6 Visiting Researcher  
OASIS Team, INRIA Sophia-Antipolis  
Part-time  
Tenure Status: Non Tenure Track

2011/1 - 2011/12 Visiting Researcher  
OASIS Team, INRIA Sophia-Antipolis  
Part-time  
Tenure Status: Non Tenure Track

2010/1 - 2010/12 Visiting Professor  
Computer Science, École Polytechnique de Marseille  
Full-time  
Tenure Status: Non Tenure Track

2010/6 - 2010/8 Visiting Professor  
Computer Science, Université D'Aix-Marseille III (D'Economie & Sci)  
Part-time  
Tenure Status: Non Tenure Track

2009/5 - 2009/6 Visiting Researcher  
MASCOTTE Team, INRIA Sophia-Antipolis  
Part-time  
Tenure Status: Non Tenure Track

2008/6 - 2008/8 Visiting Professor  
Computer Science, Université de Nice Sophia-Antipolis  
Part-time  
Tenure Status: Non Tenure Track

2008/6 - 2008/7  
 Visiting Professor  
 Computer Science, Université D'Aix-Marseille III (D'Economie & Sci)  
 Part-time  
 Tenure Status: Non Tenure Track

2008/5 - 2008/6  
 Visiting professor  
 Computer Science, Universidad Complutense de Madrid  
 Part-time  
 Tenure Status: Non Tenure Track

2007/5 - 2007/8  
 Visiting Researcher  
 MASCOTTE Team, INRIA Sophia-Antipolis  
 Full-time  
 Tenure Status: Non Tenure Track

2005/5 - 2006/7  
 Visiting Professor  
 Computer Science, Université D'Aix-Marseille III (D'Economie & Sci)  
 Part-time  
 Tenure Status: Non Tenure Track

2004/7 - 2005/7  
 Assistant Professor  
 Systems and Computer Engineering, Carleton University  
 Full-time, Assistant Professor  
 Tenure Status: Tenure

2000/7 - 2004/7  
 Assistant Professor  
 Systems and Computer Engineering, Carleton University  
 Full-time, Assistant Professor  
 Tenure Status: Tenure Track

2002/1 - 2003/12  
 Visiting Professor  
 Computer Science, Université D'Aix-Marseille III (D'Economie & Sci)  
 Part-time  
 Tenure Status: Non Tenure Track

1998/1 - 2000/12  
 Visiting Professor  
 Caleta Olivia, Universidad Nacional de la Patagonia Austral  
 Full-time  
 Tenure Status: Non Tenure Track

1997/7 - 2000/7  
 Assistant Professor  
 Computer Science, Universidad de Buenos Aires  
 Full-time, Assistant Professor  
 Tenure Status: Non Tenure Track

1999/6 - 1999/7  
 Visiting Professor  
 Facultad Regional Santa Fe, Universidad Tecnológica Nacional  
 Full-time  
 Tenure Status: Non Tenure Track

1996/3 - 1997/12  
 Visiting Professor  
 Faculty of Sciences, Engineering and Agriculture, Universidad Nacional de Rosario  
 Full-time  
 Tenure Status: Non Tenure Track

1993/7 - 1997/7  
 Lecturer  
 Computer Science, Universidad de Buenos Aires  
 Full-time, Lecturer  
 Tenure Status: Non Tenure Track



1998/6 - 1984/6 Free-lance systems development, consulting and training  
Part-time  
Activities included software design and development, network technical support, IT technical design and consulting (details of each of the projects available upon request). Companies:- METALURGICA NOGOYA S.A. (1984/85). - MARIO SZAFIR ELECTROMETALURGICA S.A. (1985/86). - EQUIPAMIENTOS AGUILAR S.A. (1986). - CIPPYME - Centro Integral para el Perfeccionamiento de las Pequeñas y Medianas Empresas (1986/98) - BELLINA S.A. (1987).- BASS S.A. (1987/88). - CLAUDIO DE PIZZINI S.C.A. (1988/89). - PIERUZZINI Y KLEIN S.A. (1987/90). - PEDEVI S.A. (1991/93). - LABORATORIOS BRITANIA S.A. (1992). - RMS S.A. (1992/1993). - ADDISON-WESLEY ARGENTINA S.A. (1994). - SOFRECOM S.A. (1994). - SECONT S.R.L. (1994) - CRISTINA MEJIAS SOCIOLOGIA (1994) - M.y T. S.A. (1994/95)

## Affiliations

The primary affiliation is denoted by (\*)

1996/6	Member (1996); Fellow (2016), SCS (Society for Modeling and Simulation International)
1994/6	Senior Member, IEEE (Institute of Electrical and Electronic Engineers)
1990/1	Member, Association for Computer Machinery (ACM)

## Research Funding History

### Awarded [n=9]

2018/10 - 2021/10 Principal Applicant	SUSTAIN: Unified Simulation Techniques for Advanced In-building Networks, Grant, Operating Project Description: Autodesk Research <b>Funding Sources:</b> 2018/4 - 2021/4 Natural Sciences and Engineering Research Council of Canada (NSERC) Strategic Partnership Individual (SPG) Total Funding - 672,500 (Canadian dollar) Portion of Funding Received - 672,500 (Canadian dollar) Funding Competitive?: Yes
2015/5 - 2021/4 Principal Investigator	Methodologies for real-time modeling and simulation, Grant, Operating <b>Funding Sources:</b> 2015/5 - 2021/4 Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grants Total Funding - 300,000 (Canadian dollar) Portion of Funding Received - 300,000 (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes
2018/3 - 2021/3 Principal Investigator	Simulation Techniques for Sustainability in Buildings, Grant, Operating <b>Funding Sources:</b> 2018/3 - 2021/3 Autodesk Research Total Funding - 77,000 (Canadian dollar) Portion of Funding Received - 77,000 (Canadian dollar) Funding Competitive?: Yes

2015/7 - 2020/7 Principal Applicant	Carleton University ELBA program for Engineering <b>Funding Sources:</b> 2015/7 - 2020/7 Carleton University ELBA funding for Engineering Total Funding - 53,000 Portion of Funding Received - 53,000 (Canadian dollar) Funding Competitive?: No
2019/4 - 2020/4 Co-investigator	Urban Futures, Grant, Establishment <b>Funding Sources:</b> 2019/4 - 2020/4 Carleton University Carleton Multidisciplinary Research Catalyst Fund (MRCF) Total Funding - 100,000 Portion of Funding Received - 5,000 (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes
2018/9 - 2019/9 Principal Investigator	IoT Platform for Disaster Response, Grant <b>Funding Sources:</b> 2018/9 - 2019/9 Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Total Funding - 80,000 (Canadian dollar) Portion of Funding Received - 80,000 (Canadian dollar) Funding Renewable?: Yes Funding Competitive?: Yes  2017/8 - 2018/8 Quebec (CRIAQ) Total Funding - 50,000 (Canadian dollar) Portion of Funding Received - 10,935 (Canadian dollar) Funding Renewable?: Yes Funding Competitive?: Yes
2018/8 - 2019/8 Principal Investigator	A prototype to analyze the resilience of complex systems infrastructures, Grant <b>Funding Sources:</b> 2018/8 - 2019/8 Carleton University NSE Research Development Grants Total Funding - 10,000 (Canadian dollar) Portion of Funding Received - 10,000 (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes
2018/9 - 2019/5 Co-applicant	Human Robot Collaboration using a prototype human operated multi-domain control station to control and supervise a large team of collaborative autonomous UxVs (with Cohort Systems), Contract <b>Funding Sources:</b> 2018/9 - 2019/5 Department of National Defence IDeAS Total Funding - 199,500 Portion of Funding Received - 78,000 (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes

2018/9 - 2019/2 Resilience analysis method and tool for Humanitas, Grant  
Principal Investigator

**Funding Sources:**

2018/9 - 2019/2 Natural Sciences and Engineering Research Council of Canada (NSERC)  
Engage  
Total Funding - 32,500 (Canadian dollar)  
Portion of Funding Received - 32,500 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

**Completed [n=40]**

2019/10 - 2019/10 Multidisciplinary research on ontologies for modeling and simulation in biology,  
Principal Applicant Scholarship

**Funding Sources:**

2019/10 - 2019/10 Cultural Services of the French Embassy (US)  
Mourou-Strickland  
Total Funding - 2,500  
Portion of Funding Received - 2,500 (Canadian dollar)  
Funding Competitive?: Yes

2017/9 - 2018/4 Advanced models for hydraulic fracturing., Contract  
Principal Applicant

**Funding Sources:**

2017/8 - 2018/4 Natural Resources Canada  
Total Funding - 23,000 (Canadian dollar)  
Portion of Funding Received - 23,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

2017/1 - 2018/4 Preliminary Unmanned Aircraft System (UAS) Traffic Simulation, Contract  
Principal Investigator

**Funding Sources:**

Transport Canada  
Total Funding - 25,000 (Canadian dollar)  
Portion of Funding Received - 12,500 (Canadian dollar)  
Funding Competitive?: Yes

2016/7 - 2017/7 Distributed Simulation and Modeling, Grant  
Principal Investigator

**Funding Sources:**

2016/7 - 2017/7 Carleton University  
International Cooperation Fund  
Total Funding - 6,000  
Portion of Funding Received - 6,000  
Funding Competitive?: Yes

2015/1 - 2015/12 Porting SageTea's Virtual Machine for QNX to Android, Grant, Operating  
Principal Investigator

**Funding Sources:**

2015/5 - 2015/12 Mathematics of Information Technology and Complex Systems (MITACS)  
ACCELERATE  
Total Funding - 15,000 (Canadian dollar)  
Portion of Funding Received - 15,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

2015/1 - 2015/12 SageTea Inc  
Total Funding - 13,000 (Canadian dollar)  
Portion of Funding Received - 13,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: No

2015/1 - 2015/12 IRAP  
Total Funding - 50,000 (Canadian dollar)  
Portion of Funding Received - 50,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

2015/5 - 2015/11 Extended Cloud Computing and Applications, Grant, Operating  
Collaborator Clinical Research Project?: No

**Funding Sources:**

2015/5 - 2015/11 Mathematics of Information Technology and Complex Systems (MITACS)  
SAVI Networks (Accelerate)  
Total Funding - 13,333 (Canadian dollar)  
Portion of Funding Received - 13,333 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: No

2013/9 - 2015/9 Distributed Algorithms for Coordinated Multi-Point Operation, Grant  
Principal Investigator

**Funding Sources:**

2013/9 - 2015/9 Natural Sciences and Engineering Research Council of Canada (NSERC)  
CRD  
Total Funding - 50,000  
Portion of Funding Received - 50,000  
Funding Competitive?: Yes

2013/9 - 2015/9 Ontario Ministry of Training, Colleges and Universities  
Queen Elizabeth II  
Total Funding - 20,000 (Canadian dollar)  
Portion of Funding Received - 20,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

2013/9 - 2015/9 Ericsson Research Canada  
Total Funding - 61,880  
Portion of Funding Received - 61,880  
Funding Competitive?: Yes

2015/1 - 2015/5 Pedestrian Modeling to Ensure Business Continuity with Public Transit Investment, Grant  
Principal Investigator

**Funding Sources:**

2015/1 - 2015/7      Bentall Kennedy  
Engage  
Total Funding - 6,720  
Portion of Funding Received - 6,720  
Funding Competitive?: No

2015/1 - 2015/7      Natural Sciences and Engineering Research Council of Canada  
(NSERC)  
Engage  
Total Funding - 25,000  
Portion of Funding Received - 25,000  
Funding Competitive?: Yes

2010/5 - 2015/5      Methodologies for real-time modeling and simulation, Grant  
Principal Investigator

**Funding Sources:**

2010/5 - 2015/5      Natural Sciences and Engineering Research Council of Canada  
(NSERC)  
Discovery Grants  
Total Funding - 155,000  
Portion of Funding Received - 155,000  
Funding Competitive?: Yes

2014/4 - 2015/5      Carleton University Research Achievement Award, Grant  
Principal Investigator

**Funding Sources:**

2014/7 - 2015/7      Carleton University  
Total Funding - 15,000  
Portion of Funding Received - 15,000  
Funding Competitive?: Yes

2014/7 - 2014/12      Semantic interoperability for SageTea, Grant  
Principal Investigator

**Funding Sources:**

2014/7 - 2014/12      Natural Sciences and Engineering Research Council of Canada  
(NSERC)  
Engage  
Total Funding - 25,000  
Portion of Funding Received - 25,000  
Funding Competitive?: Yes

2014/7 - 2014/12      SageTea Inc.  
Total Funding - 7,720  
Portion of Funding Received - 7,720  
Funding Competitive?: No

2010/9 - 2014/4      Enable CAD, Grant  
Co-investigator

**Funding Sources:**

2010/9 - 2014/4      GRAND NCE  
Total Funding - 78,500  
Portion of Funding Received - 78,500  
Funding Competitive?: Yes

2013/1 - 2014/1      Model-Based Real-Time Application Development for Bioresponsive Building Envelopes,  
Principal Investigator Grant

**Funding Sources:**

2013/1 - 2014/1 Autodesk Research  
 Total Funding - 15,000  
 Portion of Funding Received - 15,000  
 Funding Competitive?: No

2013/1 - 2013/1 Mathematics of Information Technology and Complex Systems (MITACS)  
 Total Funding - 30,000  
 Portion of Funding Received - 30,000  
 Funding Competitive?: Yes

2011/10 - 2013/10 DISSIMINET associate team: Web-Service approaches for simulation, Grant  
 Co-investigator

**Funding Sources:**

2011/6 - 2013/6 Institut National de Recherche en Informatique et Automatique (INRIA)  
 Associate Teams  
 Total Funding - 35,000  
 Portion of Funding Received - 15,000  
 Funding Competitive?: Yes

2013/1 - 2013/9 Interoperable Simulation ready IFC-driven DEVS Models, Grant  
 Principal Investigator

**Funding Sources:**

2012/1 - 2012/9 Natural Sciences and Engineering Research Council of Canada (NSERC)  
 ENGAGE  
 Total Funding - 25,000  
 Portion of Funding Received - 25,000  
 Funding Competitive?: Yes

2012/1 - 2012/9 Autodesk Research  
 Total Funding - 6,720  
 Portion of Funding Received - 6,720  
 Funding Competitive?: No

2005/9 - 2013/9 Development of Model-Based Real-Time Software on the IXA platform, Grant  
 Principal Investigator

**Funding Sources:**

2003/9 - 2015/9 Ministry of Training, Colleges and Universities of Ontario  
 OGSST/Queen Elizabeth II  
 Total Funding - 90,000 (Canadian dollar)  
 Portion of Funding Received - 90,000 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: Yes

2005/9 - 2010/9 Intel (USA)  
 IXA University  
 Total Funding - 66,990  
 Portion of Funding Received - 66,990  
 Funding Competitive?: No

2012/4 - 2012/10 Distributed Simulation Algorithms for Coordinated Multi-Point Operation, Grant  
 Principal Investigator

**Funding Sources:**

2012/4 - 2012/10 Ericsson Research Canada  
 Total Funding - 6,720  
 Portion of Funding Received - 6,720  
 Funding Competitive?: No

2012/4 - 2012/9 Natural Sciences and Engineering Research Council of Canada  
 (NSERC)  
 Engage  
 Total Funding - 25,000  
 Portion of Funding Received - 25,000  
 Funding Competitive?: Yes

2010/9 - 2012/9 Emergency facilities management and wireless applications support for first responders,  
 Collaborator Grant

**Funding Sources:**

2010/6 - 2012/6 Natural Sciences and Engineering Research Council of Canada  
 (NSERC)  
 CRD  
 Total Funding - 90,000  
 Portion of Funding Received - 30,000  
 Funding Competitive?: Yes

2011/9 - 2012/3 Augmented Reality of Multimedia Delivery on Smartphones, Grant  
 Principal Investigator

**Funding Sources:**

2011/9 - 2012/4 Ideeclic Inc.  
 Total Funding - 6,720  
 Portion of Funding Received - 6,720  
 Funding Competitive?: No

2011/9 - 2012/3 Natural Sciences and Engineering Research Council of Canada  
 (NSERC)  
 Engage  
 Total Funding - 25,000  
 Portion of Funding Received - 25,000  
 Funding Competitive?: Yes

2004/9 - 2010/9 Advanced Laboratory for real-time Modeling and Simulation, Grant  
 Principal Investigator

**Funding Sources:**

2004/9 - 2010/9 Canada Foundation for Innovation (CFI)  
 New Opportunities  
 Total Funding - 488,073  
 Portion of Funding Received - 488,073  
 Funding Competitive?: Yes

2005/5 - 2010/4 Methodologies for real-time modeling and simulation, Grant  
 Principal Investigator

**Funding Sources:**

2005/5 - 2010/4 Natural Sciences and Engineering Research Council of Canada (NSERC)  
Discovery Grants  
Total Funding - 120,000 (Canadian dollar)  
Portion of Funding Received - 120,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

2009/1 - 2009/9 Parallel Simulation in Multicore Architectures, Grant  
Principal Investigator

**Funding Sources:**

2009/1 - 2009/9 Mathematics of Information Technology and Complex Systems (MITACS)  
ACCELERATE Ontario  
Total Funding - 9,734  
Portion of Funding Received - 9,734  
Funding Competitive?: Yes

2009/4 - 2009/4 Cell-BE Workshop, Grant  
Co-applicant

**Funding Sources:**

2009/4 - 2009/4 Mathematics of Information Technology and Complex Systems (MITACS)  
Workshops  
Total Funding - 10,000  
Portion of Funding Received - 0  
Funding Competitive?: Yes

2004/4 - 2009/4 V-SIM - Carleton University Centre for Advanced Studies in Visualization and Simulation -  
Co-applicant (With Ontario Innovation Trust, Department of National Defence, and industrial partners),  
Grant

**Funding Sources:**

2004/4 - 2009/4 Canada Foundation for Innovation (CFI)  
Total Funding - 28,316,360  
Portion of Funding Received - 1,032,325  
Funding Competitive?: Yes

2000/7 - 2008/6 Real-time modeling and simulation, Grant

Principal Investigator

**Funding Sources:**

2000/7 - 2008/6 CITO - Carleton University  
CITR - Startup  
Total Funding - 45,000 (Canadian dollar)  
Portion of Funding Received - 45,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: No

2007/5 - 2008/6 Amirix AP100, Grant, Equipment

Principal Investigator

**Funding Sources:**

2007/5 - 2008/5 CMC Electronics  
Total Funding - 54,352 (Canadian dollar)  
Portion of Funding Received - 54,352 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes



- 2006/9 - 2007/9  
Co-applicant
- Federation Grid (FedGrid), Contract
- Funding Sources:**
- 2006/9 - 2007/9      CANARIE Inc (Ottawa, ON)  
                                 CIIP  
                                 Total Funding - 498,000 (Canadian dollar)  
                                 Portion of Funding Received - 256,000 (Canadian dollar)  
                                 Funding Renewable?: No  
                                 Funding Competitive?: Yes
- 2006/5 - 2007/5  
Co-investigator
- Participatory Design Studio, Grant
- Funding Sources:**
- 2006/5 - 2007/5      CANARIE Inc (Ottawa, ON)  
                                 CIIP  
                                 Total Funding - 1,200,000 (Canadian dollar)  
                                 Portion of Funding Received - 37,000 (Canadian dollar)  
                                 Funding Renewable?: No  
                                 Funding Competitive?: Yes
- 2005/5 - 2006/4
- Modeling and Simulation methodologies for Real-Time Systems development, Grant
- Funding Sources:**
- 2005/5 - 2006/4      Carleton University  
                                 Research Achievement Award  
                                 Total Funding - 15,000 (Canadian dollar)  
                                 Portion of Funding Received - 15,000 (Canadian dollar)  
                                 Funding Renewable?: No  
                                 Funding Competitive?: Yes
- 2003/5 - 2005/5  
Co-applicant
- Simulation facility for Performance Research, Grant, Equipment
- Funding Sources:**
- 2003/5 - 2005/5      Natural Sciences and Engineering Research Council of Canada  
                                 (NSERC)  
                                 Equipment grants  
                                 Total Funding - 35,093 (Canadian dollar)  
                                 Portion of Funding Received - 5,263 (Canadian dollar)  
                                 Funding Renewable?: No  
                                 Funding Competitive?: Yes
- 2004/5 - 2005/5  
Co-investigator
- Digital Architectural (Re)construction Program, Grant
- Funding Sources:**
- 2004/5 - 2005/5      Canadian Heritage  
                                 New Media Research network fund  
                                 Total Funding - 582,000 (Canadian dollar)  
                                 Portion of Funding Received - 15,000 (Canadian dollar)  
                                 Funding Renewable?: No  
                                 Funding Competitive?: Yes
- 2004/5 - 2005/4  
Principal Investigator
- CD++ Builder: an Eclipse-based platform to develop Real-Time applications, Grant

**Funding Sources:**

2004/5 - 2005/4 IBM Corporation, USA  
 Eclipse Innovation Award  
 Total Funding - 38,000 (Canadian dollar)  
 Portion of Funding Received - 38,000 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: Yes

2001/5 - 2005/4 Methodologies for real-time modeling and simulation, Grant  
 Principal Investigator

**Funding Sources:**

2001/5 - 2005/4 Natural Sciences and Engineering Research Council of Canada (NSERC)  
 Operational Grants  
 Total Funding - 68,000 (Canadian dollar)  
 Portion of Funding Received - 68,000 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: Yes

2003/5 - 2004/4 A methodology to build real-time controllers, Grant  
 Principal Investigator

**Funding Sources:**

2003/5 - 2004/4 Precarn Incorporated  
 IRIS New Opportunities Fund  
 Total Funding - 35,000 (Canadian dollar)  
 Portion of Funding Received - 35,000 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: Yes

2000/1 - 2003/12 Advanced methodologies on discrete event simulation, Grant  
 Principal Investigator

**Funding Sources:**

2000/1 - 2002/1 Universidad de Buenos Aires (Argentina)  
 UBACYT - Young researchers grants  
 Total Funding - 7,500 (Canadian dollar)  
 Portion of Funding Received - 7,500 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: Yes

2000/1 - 2003/1 Parallel Simulation of DEVS models, Grant  
 Principal Investigator

**Funding Sources:**

2000/1 - 2003/1 Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) (Argentina)  
 Total Funding - 7,500 (Canadian dollar)  
 Portion of Funding Received - 7,500 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: Yes

2001/5 - 2002/5 HLA, VV&A, and Simulation Sciences Knowledge, Contract  
 Co-applicant

**Funding Sources:**

2001/5 - 2002/5 National Defence (Canada)  
 Total Funding - 25,000 (Canadian dollar)  
 Portion of Funding Received - 5,000 (Canadian dollar)  
 Funding Renewable?: No  
 Funding Competitive?: No

- 1999/1 - 2001/12  
Principal Investigator Discrete event simulation of cell-based systems, Grant
- Funding Sources:**  
1999/1 - 2001/12 Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT) (Argentina)  
PICT - Young researchers Research Grant  
Total Funding - 22,500 (Canadian dollar)  
Portion of Funding Received - 22,500 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes  
Funding Reference Number: 11-04460
- 2000/1 - 2000/12  
Principal Investigator The ParDEVS Laboratory (FCEN/UBA, Argentina), Grant, Equipment
- Funding Sources:**  
2000/1 - 2000/12 Compaq Latin America  
Total Funding - 45,000 (Canadian dollar)  
Portion of Funding Received - 45,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: No
- 1999/7 - 2000/6  
Principal Investigator A simulated processor using the DEVS formalism, Grant
- Funding Sources:**  
1999/7 - 2000/6 Usenix foundation  
Total Funding - 21,000 (Canadian dollar)  
Portion of Funding Received - 21,000 (Canadian dollar)  
Funding Renewable?: No  
Funding Competitive?: Yes

## Courses Taught

- 2001/09/01 -  
2019/01/01 Professor, Systems and Computer Engineering, Carleton University  
Course Title: (also HCIN 5405, SYSC 5807, 94.587). Methodologies for discrete-event modeling and simulation (F'01-05, F'07-12, F'14-15, W'16, F'16-19)  
Course Code: SYSC 5104  
Course Level: Graduate
- 2012/09/01 -  
2016/12/15 Professor, Systems and Computer Engineering, Carleton University  
Course Title: Operating Systems (F'12; F'14, F'16)  
Course Code: SYSC 4001  
Course Level: Undergraduate
- 2003/09/01 -  
2016/05/01 Professor, Systems and Computer Engineering, Carleton University  
Course Title: Introduction to Real-Time Systems (W'03-6, W'08-13, W'15-16)  
Course Code: SYSC 2003  
Course Level: Undergraduate
- 2012/09/01 -  
2015/11/01 Professor, Computer Science Department, Universidad de Buenos Aires  
Course Title: Discrete-Event Simulation (2 short courses)  
Course Level: Graduate

2007/09/01 - 2012/12/01	Professor, Systems and Computer Engineering, Carleton University Course Title: Operating Systems and Databases (F'07, F'10, F'12) Course Code: SYSC 3001 Course Level: Undergraduate
2003/09/01 - 2011/12/01	Professor, Systems and Computer Engineering, Carleton University Course Title: Computer Organization (F'03-05, F'08-09, F'11) Course Code: SYSC 3006 Course Level: Undergraduate
2000/09/01 - 2002/12/15	Professor, Systems and Computer Engineering, Carleton University Course Title: Computer Organization (F'00-02) Course Code: 94.306 Course Level: Undergraduate
2001/09/01 - 2002/05/01	Professor, Systems and Computer Engineering, Carleton University Course Title: Introduction to Real-Time Systems (W'01-2) Course Code: 94.203 Course Level: Undergraduate
1997/03/01 - 2000/06/15	Professor, Computer Science Department, Universidad de Buenos Aires Course Title: Computer Organization I (1997-2000 F/W) Course Level: Undergraduate
1996/09/01 - 1999/08/01	Professor, Universidad de Buenos Aires Course Title: Discrete-Event simulation (W'96W to F'99). Course Level: Graduate
1993/03/01 - 1998/12/01	Instructor, Universidad de Buenos Aires Course Title: Real-Time Systems (F/W '93-98) Course Level: Graduate
1991/08/01 - 1992/12/15	Instructor, Computer Science Department, Universidad de Buenos Aires Course Title: Operating Systems Laboratory (Elective; 1991F/1992F) Course Level: Undergraduate
2013/09/01 - 0201/12/01	Professor, Applied Mathematics Institute, Universidad de Buenos Aires Course Title: Discrete-Event Simulation (2013 F) Course Level: Graduate

## Course Development

2005/7	Professor, Carleton University Course Title: The course SYSC-2003 was redeveloped to include new hardware. The course SYSC-5104 was developed from scratch. In both cases a new set of assignments, slides and lab experiments were developed.
2001/6	Coordinator, Systems and Computer Engineering, Carleton University Course Title: Real-Time and Computing Systems Teaching Activity Group Coordination and meetings with 6 professors in the area (plus the Department Chair, the Lab Coordinator, external members), discussion about course contents, pedagogical decisions and equipment needs, reporting to the Chair and the Department Board
1993/7	Instructor/Profesor, Computer Science Department, Universidad de Buenos Aires Course Title: The courses "Discrete-Event simulation", "Real-Time Systems", "Computer Organization I" and "Operating Systems Lab" were developed from scratch, including a new set of assignments, course slides, and literature.

## Student/Postdoctoral Supervision

### Bachelor's [n=83]

2019/9 - 2020/5 Principal Supervisor	Mehdi Mehar (In Progress) , Carleton University Thesis/Project Title: Development of cyber-physical systems using a model-based approach Present Position: Student, Carleton University
2019/9 - 2020/5 Principal Supervisor	José Franco (In Progress) , Carleton University Thesis/Project Title: Development of cyber-physical systems using a model-based approach Present Position: Student, Carleton University
2019/9 - 2020/5 Principal Supervisor	Majd Salaheddin (In Progress) , Carleton University Thesis/Project Title: Development of cyber-physical systems using a model-based approach Present Position: Student, Carleton University
2019/9 - 2020/5 Principal Supervisor	Aryan Rashidi-Tabrizi (In Progress) , Carleton University Thesis/Project Title: Development of cyber-physical systems using a model-based approach Present Position: Student, Carleton University
2018/9 - 2019/5 Principal Supervisor	Eli Yammine (Completed) , Carleton University Thesis/Project Title: Improving an Online Viewer for Simulation Models Present Position: Student, Carleton University
2018/9 - 2019/5 Principal Supervisor	Denis Chupin (Completed) , Carleton University Thesis/Project Title: Improving an Online Viewer for Simulation Models Present Position: Student, Carleton University
2018/9 - 2019/5 Principal Supervisor	Majed Nayef (Completed) , Carleton University Thesis/Project Title: Improving an Online Viewer for Simulation Models Present Position: Student, Carleton University
2017/5 - 2017/9 Principal Supervisor	Shamoon Irshad (Completed) , Carleton University Thesis/Project Title: Developing software controllers for robotic and quadcopter applications using Embedded DEVS (NSERC USRA) Present Position: Embedded Software Engineering, Ciena
2016/5 - 2016/6 Principal Supervisor	Maaiké Suderham, Carleton University Thesis/Project Title: Analysis of D2D simulation models in LTE-A architectures
2015/5 - 2015/9 Principal Supervisor	Omar Khan, Carleton University Thesis/Project Title: Developing control software for quadcopter applications using CD++
2015/5 - 2015/9 Principal Supervisor	Ian Mangione, Carleton University Thesis/Project Title: Development of control algorithms for robotic applications using CD++
2015/5 - 2015/9 Principal Supervisor	Stuti Rastogi, Carleton University Thesis/Project Title: Building mashup applications using the RISE middleware and Simulation as a Service (MITACS Globalink)
2013/6 - 2013/7 Principal Supervisor	Shikai Wang (Completed) , Central South University, China Thesis/Project Title: Embedded systems development with CD++ (MITACS Globalink student) Present Position: Master student, Tsinghua University, China

- 2013/5 - 2013/8  
Principal Supervisor Falcou Bastien (Completed) , University of Montpellier, France  
Thesis/Project Title: CD++Builder: a platform to develop DEVS models  
Present Position: Senior Mobile Engineer, Compass, France
- 2013/4 - 2013/9  
Principal Supervisor Victor Freire (Completed) , Universidade Federal de Campina Grande, Brazil  
Thesis/Project Title: 3D Modeling and Visualization of Crowds using the IFC standard (MITACS Globalink student)  
Present Position: M.C.S. Student, University of Sao Paulo, Brazil
- 2012/9 - 2013/5  
Principal Supervisor Imran Iqbal (Completed) , Carleton University  
Thesis/Project Title: Embedded Real Time systems: Robotic applications  
Present Position: J9 JVM Software Developer IBM Canada Ltd.
- 2012/9 - 2013/5  
Principal Supervisor Joanna Lostracco (Completed) , Carleton University  
Thesis/Project Title: Visualizing models for Biomedical Applications: Disease Transmission  
Present Position: Analyst; Statistics Canada
- 2012/9 - 2013/3  
Principal Supervisor Jonathan Lam (Completed) , Carleton University  
Thesis/Project Title: Embedded Real Time systems: Robotic applications  
Present Position: Unknown
- 2012/9 - 2013/5  
Principal Supervisor Myriam Younan (Completed) , Carleton University  
Thesis/Project Title: Visualizing models for Biomedical Applications: Disease Transmission  
Present Position: SVT/PV Engineer at Ciena
- 2012/9 - 2013/5  
Principal Supervisor Eman Al Disi (Completed) , Carleton University  
Thesis/Project Title: Visualizing models for Biomedical Applications: Disease Transmission  
Present Position: Software Developer Empowered Networks
- 2012/9 - 2013/5  
Principal Supervisor Jonathon Panke (Completed) , Carleton University  
Thesis/Project Title: Stock Market Tycoon: Mobile simulation with applications for serious gaming  
Present Position: Unknown
- 2012/9 - 2013/5  
Principal Supervisor Andrew Jeffery (Completed) , Carleton University  
Thesis/Project Title: Stock Market Tycoon: Mobile simulation with applications for serious gaming  
Present Position: Jr Software Developer at Espial
- 2012/9 - 2013/5  
Principal Supervisor Michael Chen (Completed) , Carleton University  
Thesis/Project Title: Embedded Real Time systems: Robotic applications  
Present Position: Software Engineer, General Dynamics Canada
- 2012/9 - 2013/5  
Principal Supervisor Nicholas Eaket (Completed) , Carleton University  
Thesis/Project Title: Stock Market Tycoon: Mobile simulation with applications for serious gaming  
Present Position: Software Developer. 360pi
- 2012/1 - 2012/3  
Principal Supervisor Mariya Sharovar (Completed)  
Thesis/Project Title: OS development with Minix (I-CUREUS program for undergraduate students)
- 2011/9 - 2012/5  
Principal Supervisor Bryce Mitchell (Completed) , Carleton University  
Thesis/Project Title: Modifying the Kernel of an Operating system  
Present Position: Jr Embedded Engineer Aversan Inc.
- 2011/9 - 2012/5  
Principal Supervisor Daniel Leblond (Completed) , Carleton University  
Thesis/Project Title: CUHub: an application for community building  
Present Position: Software Design Engineer in Test (SDET) Microsoft Corp.

2011/9 - 2012/5  
Principal Supervisor Rohit Zijoo (Completed) , Carleton University  
Thesis/Project Title: CUHub: an application for community building  
Present Position: Accepted for the M.A.Sc. program, Carleton University

2011/9 - 2012/5  
Principal Supervisor Adam Wlotzki (Completed) , Carleton University  
Thesis/Project Title: Modifying the Kernel of an Operating system  
Present Position: Technical Consultant I - Security Operations Innovapost

2011/9 - 2012/5  
Principal Supervisor Seyed Mohammad Etemad (Completed) , Carleton University  
Thesis/Project Title: MOSA: a virtual lab for simulation on Smartphones

2011/9 - 2012/5  
Principal Supervisor Lee Simbeye (Completed) , Carleton University  
Thesis/Project Title: MOSA: a virtual lab for simulation on Smartphones

2011/9 - 2012/5  
Principal Supervisor Joyce Alsayegh (Completed) , Carleton University  
Thesis/Project Title: CUHub: an application for community building  
Present Position: Control Systems Programmer at Interactive Engineering and Programming FZ LLE

2011/9 - 2012/5  
Principal Supervisor Mana H.Zargari (Completed) , Carleton University  
Thesis/Project Title: CUHub: an application for community building

2011/9 - 2012/5  
Principal Supervisor Milton Johane (Completed) , Carleton University  
Thesis/Project Title: MOSA: a virtual lab for simulation on Smartphones  
Present Position: Software Developer Corporate Business Solutions, Botswana

2011/5 - 2011/9  
Principal Supervisor Dherrick Nhan (Completed) , Carleton University  
Thesis/Project Title: Dherrick Nhan – Biomedical: compiling TPS  
Present Position: Accepted for the M.D. program, University of Toronto

2011/5 - 2011/9  
Principal Supervisor Amit Badlani (Completed) , Carleton University  
Thesis/Project Title: An environment for Real-Time Embedded modeling and simulation (MITACS Globalink scholar)  
Present Position: M.Sc. Student, Stanford University

2011/5 - 2011/8  
Principal Supervisor Nathanael Masri (Completed) , Carleton University  
Thesis/Project Title: CD++Builder

2010/9 - 2011/5  
Principal Supervisor Araz Boghossian (Completed) , Carleton University  
Thesis/Project Title: Embedded Real Time systems: Robotic applications  
Present Position: Junior Consultant at EME Group Inc.

2010/9 - 2011/5  
Principal Supervisor Sarmad Abdi (Completed) , Carleton University  
Thesis/Project Title: Simulation and visualization of nerve synapsins in 3D  
Present Position: Software Test Associate, Intern at BlackBerry

2010/9 - 2011/5  
Principal Supervisor Louay Abdelkader (Completed) , Carleton University  
Thesis/Project Title: Simulation and visualization of nerve synapsins in 3D  
Present Position: M.A.Sc. Student, McMaster University

2010/9 - 2011/5  
Principal Supervisor Manuanand Muruganandhan (Completed) , Carleton University  
Thesis/Project Title: Simulation and visualization of nerve synapsins in 3D  
Present Position: SAP WM/EWM/MM Consultant IBM

2010/9 - 2011/5  
Principal Supervisor Michael Van Schyndel (Completed) , Carleton University  
Thesis/Project Title: Parallel/Multicore programming using the Cell BE processor  
Present Position: M.A.Sc. Student, Carleton University

2010/9 - 2011/5  
Principal Supervisor Luis Lopez (Completed) , Carleton University  
Thesis/Project Title: Embedded Real Time systems: Robotic applications  
Present Position: Software Engineer at Bluink Ltd

2010/9 - 2011/5 Cheryl D'Souza (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Multicore programming using the Cell BE processor

2010/9 - 2011/5 Katherine Newcombe (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Embedded Real Time systems: Robotic applications

2010/9 - 2011/5 Akshat Babaria (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Multicore programming using the Cell BE processor  
Present Position: Service Technician at Bell Technical Solutions

2010/5 - 2010/9 Philippe Nguyen (Completed)  
Principal Supervisor Thesis/Project Title: Advanced visualization of the tethered particle system

2009/5 - 2009/9 N. Farran (Completed) , Université d'Aix-Marseille III  
Principal Supervisor Thesis/Project Title: Modeling and simulation of biological systems with Tethered Particle Systems

2009/5 - 2009/9 S. Lissari (Completed) , Université d'Aix-Marseille III  
Principal Supervisor Thesis/Project Title: Modeling and simulation of biological systems with Tethered Particle Systems

2009/5 - 2009/9 H. Yigang (Completed) , Université d'Aix-Marseille III  
Principal Supervisor Thesis/Project Title: Modeling and simulation of biological systems with Tethered Particle Systems

2009/5 - 2009/9 D. Tall. (Completed) , Université d'Aix-Marseille III  
Principal Supervisor Thesis/Project Title: Modeling and simulation of biological systems with Tethered Particle Systems

2008/9 - 2009/5 Rohit Rishi (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Development of real-time embedded systems using a model-based approach  
Present Position: Software Developer at IBM Canada Ltd.

2008/9 - 2009/5 Yehia Elsayy (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Distributed simulation of complex systems

2008/9 - 2009/5 Narges Mobarhani (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Distributed simulation of complex systems

2008/9 - 2009/5 Sharmeen Yousuf (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Distributed simulation of complex systems

2008/9 - 2009/5 Arindam Pramanik (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: CD++Builder: an Eclipse Platform for Modelling and Simulation  
Present Position: Director International Trade Exchange Ltd.

2008/9 - 2009/5 Abdul Ahmed (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Distributed simulation of complex systems  
Present Position: Software Designer at Curtiss-Wright Controls

2008/9 - 2009/5 Shaikh Asif (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Parallel/Distributed simulation of complex systems  
Present Position: Data and Business Intelligence Analytics Bell Canada

2008/9 - 2009/5 Prachit Rohatgi (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Development of real-time embedded systems using a model-based approach  
Present Position: Program Manager, Global Technology Legal Compliance at SAP



2008/9 - 2009/5 Principal Supervisor	Ruslan Nasir (Completed) , Carleton University Thesis/Project Title: CD++Builder: an Eclipse Platform for Modelling and Simulation Present Position: MBA Student, University of Toronto
2007/9 - 2008/5 Principal Supervisor	Kevin Philipose (Completed) , Carleton University Thesis/Project Title: Using Atlantis to build an SNMP-based monitoring system
2007/9 - 2008/5 Principal Supervisor	Ronand Amelunge Antelo (Completed) , Carleton University Thesis/Project Title: Using Atlantis to build an SNMP-based monitoring system Present Position: MiCloud Contact Center Specialist at Mitel
2007/9 - 2008/5 Principal Supervisor	Kalaimathan Mahenthiran (Completed) , Carleton University Thesis/Project Title: Using Atlantis to build an SNMP-based monitoring system Present Position: Software Designer, Atomic Energy of Canada Limited (AECL)
2007/9 - 2008/5 Principal Supervisor	Tunde Adams (Completed) , Carleton University Thesis/Project Title: CD++Builder: an Eclipse Platform for M&S Present Position: Junior Software Engineer at Lumenera Corporation
2007/9 - 2008/5 Principal Supervisor	Jia Long (Completed) , Carleton University Thesis/Project Title: CD++Builder: an Eclipse Platform for M&S
2004/9 - 2005/5 Principal Supervisor	Stephen Lombardi, Carleton University Thesis/Project Title: InterfacingDEVs Modeling and Simulation tools  Other Supervisors: Co-Supervisor - Zeigler, Bernard
2004/9 - 2005/5 Principal Supervisor	Jonathan Abrams, Atyka Adidharma, Christopher Choquette, Chow Lim, Ethan Sturuss, Yong Zhang (Completed) , Carleton University Thesis/Project Title: Developmentof Real-time Object Oriented Embedded Systems
2004/9 - 2005/5 Principal Supervisor	Satheejan Guganathan, Figo Mphato, Piragalathan Pathmasenan, Carleton University Thesis/Project Title: Developing RFID applications with Atlantis
2003/9 - 2004/5 Principal Supervisor	Pat Suwalski, Carleton University Thesis/Project Title: AutomotiveComputing with Gaming Console Hardware
2003/9 - 2004/5 Principal Supervisor	Guangjie Deng, Andrew Lyn, Carleton University Thesis/Project Title: CarletonUniversity Carpool System
2003/9 - 2004/5 Principal Supervisor	Wilson Venhola, Carleton University Thesis/Project Title: Visualizationof Complex Simulation Models
2003/9 - 2004/5 Principal Supervisor	Alexander Dias, Banan Al-Aubiydy, Carleton University Thesis/Project Title: Modelingand Simulation of Biomedical Applications
2003/9 - 2004/5 Principal Supervisor	Ibrahim Hamdy, Mohamed Najm, Akram Saleh, Carleton University Thesis/Project Title: Modelingembedded applications with the IXA Platform
2003/9 - 2004/5 Principal Supervisor	Carlos Castro, Stephanie Cox, Kevin Friesen, Jason Prince, Carleton University Thesis/Project Title: IEEEEDesign Competition
2003/9 - 2004/5 Principal Supervisor	Nadeem Douba, Said Mohamed (Completed) , Carleton University Thesis/Project Title: InterfacingRT-OO Systems and Embedded Systems
2003/9 - 2004/5 Principal Supervisor	Jon Anderson, Carleton University Thesis/Project Title: EmbeddedLinux build/distribution system
2002/9 - 2003/5 Principal Supervisor	Mohamed Ahmed A. El-Salam, Khalil Yonis, Abdul Raman El-Shafei, Carleton University Thesis/Project Title: Modeling and simulation of complex communicationsystems
2002/9 - 2003/5 Principal Supervisor	Heba El-Helou, Carleton University Thesis/Project Title: Parallel and distributed simulation

2001/9 - 2002/5 Principal Supervisor	Franklin Donbosco, Robert Holwell, Carleton University Thesis/Project Title: The Carleton University Carpool System
2001/9 - 2002/5 Principal Supervisor	Trevor Thomas, Carleton University Thesis/Project Title: An environmental control system for aqua culture and marine aquaria
2001/9 - 2002/5 Principal Supervisor	Shaylesh Mehta, Carleton University Thesis/Project Title: Mixed Signal VHDL Modelling and Simulation
2001/9 - 2002/5 Principal Supervisor	Shannon Borho, Jan Pittner, Carleton University Thesis/Project Title: Implementation of a Graphical User Interface for the ATLAS modeling language
2001/9 - 2002/5 Principal Supervisor	Matt Chmiel, Shawn French, Stephen Haber, Carleton University Thesis/Project Title: Group Messaging System

**Bachelor's Equivalent [n=1]**

2016/1 - 2016/12 Principal Supervisor	Victor Guida Silva, Carleton University Thesis/Project Title: Modeling and Simulation of Device-to-Device communications in LTE-A environments Present Position: Master Student, USP, Brazil
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**Master's Equivalent [n=31]**

2019/2 - 2020/12 Principal Supervisor	Juan Lanuza (In Progress) , University of Buenos Aires, Argentina Student Degree Expected Date: 2020/12 Thesis/Project Title: Building a Parallel DEVS simulation engine Present Position: M.C.S. Student
2016/11 - 2019/3 Principal Supervisor	Laouen Belolli (Completed) , Universidad de Buenos Aires, Argentina (and DFAIT - ELAP Scholar at Carleton University) Thesis/Project Title: Biological Modeling And Simulation As A Service Present Position: Ph.D student INSERM, Paris, France
2008/1 - 2010/1 Principal Supervisor	Matias Bonaventura (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: An environment for development graphical models using E-CD++ Present Position: Researcher, CERN, Geneva, Switzerland; Ph.D. student Carleton in cotutelle with UBA
2007/4 - 2007/11 Principal Supervisor	Loic Quinet, Université Blaise-Pascal, France (summer internship at Carleton University) Thesis/Project Title: Distributed simulation of DEVS models Present Position: Technical Support Manager, Mangin-Egly Enterprises, France
2007/4 - 2007/11 Principal Supervisor	Julien Chazal, Université Blaise-Pascal, France (summer internship at Carleton University) Thesis/Project Title: Distributed DEVS models on user-defined lightpaths
2006/6 - 2008/6 Principal Supervisor	Juan Ignacio Cidre (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: A web-based interface for the CD++ modeler toolkit
2001/3 - 2004/3 Principal Supervisor	Leandro de San Miguel (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Analysis of quantized continuous Cell-DEVS
2001/3 - 2004/3 Principal Supervisor	Mariana D'Abreu (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Modeling hybrid systems using the DEVS formalism
2000/3 - 2003/3 Principal Supervisor	Alejandro López (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Extending the Cell-DEVS modeling language
2000/3 - 2003/3 Principal Supervisor	Alejandro Dobniewski (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: An specification language for DEVS modeling

2000/3 - 2003/3 Principal Supervisor	Gustavo Fossatti (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Fault-tolerant Real-times cheduling techniques in an open-source Operating System
2000/3 - 2003/3 Principal Supervisor	Jose Luis Dominguez (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Fault-tolerant Real-times cheduling techniques in an open-source Operating System
2000/3 - 2003/3 Principal Supervisor	Gastón Christen (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: An specification language for DEVS modeling
1999/9 - 2002/3 Principal Supervisor	Ezequiel Glinsky (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Real-time simulation of DEVS models
1999/3 - 2001/3 Principal Supervisor	Alejandro Troccoli (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Execution of Cell-DEVS models in a parallel environment
1999/3 - 2001/3 Principal Supervisor	Edgardo Szulzstein (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Conservative parallel discrete-event simulation in Warped
1998/3 - 2000/3 Principal Supervisor	Pablo Esper (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Including real-time scheduling techniques in the IGNATIUS SCADA toolkit
1998/3 - 2000/3 Principal Supervisor	César Torres (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Construction of a compiler for the ATLAS modeling language
1998/3 - 2000/3 Principal Supervisor	Javier Ameghino (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Modeling complex physical systems with Cell-DEVS
1998/3 - 2000/3 Principal Supervisor	Verónica Vázquez (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Routing and congestion in ATLAS
1998/3 - 2000/3 Principal Supervisor	Mariana Lo Tártaro (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Construction of a compiler for the ATLAS modeling language
1998/3 - 2000/3 Principal Supervisor	Andrea Díaz (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Routing and congestion in ATLAS
1998/3 - 2000/3 Principal Supervisor	Pablo Rogina (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Analysis of fault-tolerant techniques in sensors for hard real-time applications
1997/3 - 1999/3 Principal Supervisor	María Eugenia Nazar (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Design and implementation of alternative real-time scheduling in an experimental operating system
1997/3 - 1999/3 Principal Supervisor	Viviana Albarracín (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Design and implementation of alternative real-time scheduling in an educational operating system
1997/3 - 1999/3 Principal Supervisor	Alejandra Davidson (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Definition of ATLAS, a specification language for urban traffic modeling
1997/3 - 1999/3 Principal Supervisor	Daniel Rodríguez (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: Implementing n-dimensional Cell-DEVS models
1996/3 - 1998/3 Principal Supervisor	Amir Barylko (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: CD++: an environment for simulation of Cell-DEVS models
1996/3 - 1998/3 Principal Supervisor	Jorge Beyoglonian (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: CD++: an environment for simulation of Cell-DEVS models

1995/3 - 1997/3 Juan José Seoane (Completed) , Universidad de Buenos Aires, Argentina  
Principal Supervisor Thesis/Project Title: IGNATIUS: a tool to develop SCADA systems

1995/3 - 1997/3 Silvia Benítez (Completed) , Universidad de Buenos Aires, Argentina  
Principal Supervisor Thesis/Project Title: IGNATIUS:a tool to develop SCADA systems

**Master's non-Thesis [n=14]**

2019/1 - 2020/1 Navneet Kaushal (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: A parser for providing online visualization of Cell-DEVS and DEVS models  
Present Position: M.Eng. Student, Carleton University

2018/9 - 2020/5 Arnav Kaushal (In Progress) , Carleton University  
Principal Supervisor Thesis/Project Title: Integration of a remote simulation as a service platform and a web-based interface  
Present Position: M.Eng. Student, Carleton University

2018/9 - 2020/5 Ankit Vig (In Progress) , Carleton University  
Principal Supervisor Thesis/Project Title: Defining DEVS formal models using a simulation as a service  
Present Position: M.Eng. Student, Carleton University

2017/9 - 2018/5 Srivastav Janapalli (Completed) , Carleton University  
Principal Supervisor Student Degree Received Date: 2018/5  
Thesis/Project Title: Interaction of pedestrian vehicle models in a 3D immersive simulation application  
Present Position: Application Analyst - Ceridian

2017/9 - 2018/5 Daniel Melean (Completed) , Carleton University  
Principal Supervisor Student Degree Received Date: 2018/5  
Thesis/Project Title: PID controller for quadcopters using DEVSRT **Carleton University Senate Medal for Outstanding Graduate Work–M.Eng.**  
Present Position: Unknown

2017/9 - 2018/5 Gurveen Kaur (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Advanced controller for roboti capplications using DEVSRT  
Present Position: Consultant- Hybrid Identity and Cyber Security Avaleris Inc.

2017/9 - 2018/5 Mandeep Singh Bal (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Advanced controller for quadcopters using DEVSRT  
Present Position: SIEM infrastructure Analyst - Deloitte

2017/6 - 2017/12 Sagar Patel (Completed) , Carleton University  
Principal Supervisor Student Degree Received Date: 2017/12  
Thesis/Project Title: Advanced DEVS controller for robotic application  
Present Position: Software developer - Ciena

2015/6 - 2015/12 Natalia Gorbenko (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Technical Support Excellence Modeling using CloudComputing  
Present Position: Software Engineering - Ciena

2015/1 - 2015/12 Ali Salaheddin (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Building an embedded controller for a quadcopter using the DEVS formalism  
Present Position: Software Developer, Ericsson Inc., Ottawa

2009/1 - 2012/1 K. Waqas Muhi (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Applying the Tethered Particle Systems method for modeling nerve terminals  
Present Position: Product Verification Engineer, Nakina Systems

2008/1 - 2012/1  
Principal Supervisor Ardeshir Golshani (Completed) , Carleton University  
Thesis/Project Title: Growth Detector and Plate Analyzer Applications  
Present Position: Solution Analyst at Mxi Technologies

2000/9 - 2001/9  
Principal Supervisor Xuqing Wu (Completed) , Carleton University  
Thesis/Project Title: A graphical tool to define DEVS models

2000/9 - 2001/9  
Co-Supervisor Ying Wang (Completed) , Carleton University  
Thesis/Project Title: Defining graphical output behavior in a DEVS modeling environment  
Other Supervisors: Co-Supervisor - Petriu, Dorina

**Master's Thesis [n=26]**

2019/5 - 2021/9  
Principal Supervisor Benjamin Earle (In Progress) , Carleton University  
Thesis/Project Title: Building an Operating System Real-Time kernel using a model-based approach  
Present Position: M.A.Sc. Student, Carleton University

2016/9 - 2018/9  
Principal Supervisor Ifeoluwa Oyelowo (Completed) , Carleton University  
Thesis/Project Title: Modeling and Simulation for Assessing the Risk of Near Mid-Air Collisions in Unmanned Aerial Systems. ***Nominated to Carleton University Senate Medal for Outstanding Graduate Work – Masters Level.***  
Present Position: IT Operations Specialist position - Innovapost

2014/1 - 2017/1  
Principal Supervisor Mohammad Seyed Etemad (Completed) , Carleton University  
Thesis/Project Title: Simulation of Coordinated Multipoint Using Discrete Event Systems Specification  
Present Position: Software developer at Kandy.io

2013/9 - 2016/9  
Principal Supervisor Jan Mikhail (Completed) , Carleton University  
Thesis/Project Title: Improving The Performance of LTE-A Networks Using Coordinated Multipoint Techniques (***NSERC PGS - Masters***)  
Present Position: CTO and Founder at Buzzyn Rewards

2013/9 - 2015/8  
Principal Supervisor Daniella Niyonkuru (Completed) , Carleton University  
Thesis/Project Title: Development of a bare-metal environment for Embedded C++  
***Carleton University Senate Medal for Outstanding Graduate Work–Masterslevel.***  
Present Position: Software Developer, Shopify Inc., Ottawa, ON

2012/9 - 2014/7  
Principal Supervisor Elizabeth Hosang (Completed) , Carleton University  
Thesis/Project Title: Using The Coalition Battle Management Language Standard For Interacting With The Restful Interoperability Simulation Environment  
Present Position: Software Architect at CAE

2012/3 - 2015/12  
Principal Supervisor Cheryl D'Souza (Completed) , Carleton University  
Thesis/Project Title: Using Discrete Event System Specification in Real-Time (DEVSRT) in Order to Model and Simulate Artificial Pancreas.  
Present Position: Software Developer, General Dynamics

2011/9 - 2014/5  
Principal Supervisor Michael Van Schyndel (Completed) , Carleton University  
Thesis/Project Title: Computational Fluid Dynamic Solver based on Cellular Discrete-Event Simulation for use in Biological Systems  
Present Position: Business Analyst, 2Keys

2011/1 - 2013/1  
Principal Supervisor Colin Timmons (Completed) , Carleton University  
Thesis/Project Title: Thin Client Distributed Simulation of Discrete Event Models  
Present Position: Department of National Defence / Canadian Armed Forces Synthetic Environment Coordination Officer

- 2008/1 - 2011/1  
Principal Supervisor Erik Esselar (Completed) , Carleton University  
Thesis/Project Title: Visualizing Innovation: Modelling and Simulation in Support of Defence Innovation Networks  
Present Position: Officer Commanding Support Squadron Canadian Forces School of Communications and Electronics (CFSCE)
- 2008/1 - 2010/1  
Principal Supervisor Yuri Boiko (Completed) , Carleton University  
Thesis/Project Title: Improving the Performance of Neural Networks through Parallel Processing in the Cell Broadband Engine  
Present Position: Ph.D. Student, University of Ottawa
- 2007/9 - 2009/9  
Principal Supervisor Rhys Goldstein (Completed) , Carleton University  
Thesis/Project Title: DEVS-Based Dynamic Simulation of Deformable Biological Structures (**Carleton University Medal for Outstanding Graduate Work - Master's Level**)  
Present Position: Research Scientist, Autodesk Research Canada
- 2006/1 - 2009/1  
Principal Supervisor Rachid Chreyh (Completed) , Carleton University  
Thesis/Project Title: An internet-based repository for DEVS models and their experimental frames  
Present Position: Senior Systems Analyst, NavCanada
- 2006/1 - 2009/1  
Principal Supervisor Bo Feng (Completed) , Carleton University  
Thesis/Project Title: Implementing parallel and distributed DEVS and cell-DEVS simulation in a windows platform  
Present Position: Software Developer, Cogeco Inc.
- 2005/9 - 2007/9  
Principal Supervisor Marcelo Gutiérrez-Alcaraz (Completed) , Carleton University  
Thesis/Project Title: An Eclipse-based environment for RT DEVS (**Harvard LASPAU Scholar**)
- 2005/4 - 2007/4  
Principal Supervisor Yingfeng Yu (Completed) , Carleton University  
Thesis/Project Title: Designing extensions for the use of CD++ to build embedded discrete-event systems
- 2005/4 - 2007/4  
Principal Supervisor Hui Shang (Completed) , Carleton University  
Thesis/Project Title: Including dynamic DEVS models in the Embedded CD++ platform
- 2004/9 - 2007/9  
Principal Supervisor Shafagh Jafer (Completed) , Carleton University  
Thesis/Project Title: Modeling advanced cellular models with Parallel Cell-DEVS
- 2004/9 - 2006/9  
Principal Supervisor Rami Madhoun, Carleton University  
Thesis/Project Title: Web-Services definition of Discrete-Event simulation services
- 2004/9 - 2006/9  
Principal Supervisor Qi Liu, Carleton University  
Thesis/Project Title: Experimental analysis of Parallel DEVS in CD++ (**Carleton University Senate Medal for Outstanding Academic Achievement – Master Level**)
- 2004/1 - 2007/1  
Principal Supervisor Hesham Saadawi (Completed) , Carleton University  
Thesis/Project Title: Verification methodology for DEVS models  
Present Position: Visiting Assistant Professor, University of St. Thomas, St. Paul
- 2002/9 - 2004/9  
Co-Supervisor Roxana Djafarzadeh (Completed) , University of Ottawa  
Thesis/Project Title: Modeling and Simulation of Cellular Metabolism and Energy Production by Mitochondria  
  
Other Supervisors: Co-Supervisor - Mussivand, Tofy
- 2002/9 - 2004/9  
Principal Supervisor Ezequiel Glinsky (Completed) , Carleton University  
Thesis/Project Title: Integrating Time-Warp and Parallel DEVS simulation algorithms for improved performance of Parallel Cell-DEVS (**Carleton University Senate Medal for Outstanding Academic Achievement – Master Level**)

2001/9 - 2003/9 Hesham Saadawi (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: Improving the Finite Elements Method using Cell-DEVS

2001/9 - 2003/9 Wenhong Chen (Completed) , Carleton University  
Principal Supervisor Thesis/Project Title: A facility for remote execution and visualization of Cell-DEVS models

2000/9 - 2002/9 Amir Saghir (Completed) , Carleton University  
Co-Supervisor Thesis/Project Title: Computer system modeling at the hardware level  
Other Supervisors: Principal Supervisor - Pearce, Trevor

**Doctorate [n=22]**

2018/9 - 2022/9 Guillermo Trabes (In Progress) , Carleton University and National University of San Luis  
Principal Supervisor Thesis/Project Title: Advanced Parallelization Techniques for Discrete-Event Modeling And Simulation  
Present Position: Ph.D student, Carleton University  
Other Supervisors: Co-Supervisor - Gil-Costa, Verónica

2017/9 - 2020/9 Talal Qamar (In Progress) , Carleton University  
Principal Supervisor Thesis/Project Title: Formal definition of Environmental Frameworks for DEVS  
Present Position: Ph.D student, Carleton University

2017/9 - 2021/9 Bruno Saint-Aubin (In Progress) , Carleton University  
Principal Supervisor Student Degree Start Date: 2017/9  
Thesis/Project Title: An architecture for distributed simulation and integration of simulation and visualization services  
Present Position: Ph.D Student, Carleton University

2017/6 - 2021/6 Márcio Rodrigues da Cunha Reis (In Progress) , Federal University of Goiás, Brazil  
Co-Supervisor Student Degree Start Date: 2015/9  
Thesis/Project Title: Optimization and Control Methods to Maximize Performance for a Switched Reluctance Motor  
Present Position: Ph.D student, University of Goias, Brazil  
Other Supervisors: Principal Supervisor - Pacheco, Wesley

2017/6 - 2021/6 Alana da Silva Magalhães (In Progress) , Federal University of Goiás, Brazil  
Co-Supervisor Student Degree Start Date: 2014/9  
Thesis/Project Title: Reducing harmonic levels in synchronous generators using inductive generators  
Present Position: Ph.D student, University of Goias, Brazil  
Other Supervisors: Principal Supervisor - Pacheco, Wesley

2017/5 - 2020/9 Viviane Margarida Gomes (In Progress) , University of Goias, Brazil  
Co-Supervisor Thesis/Project Title: Modeling and Simulation Applied to Metrics for Systems Complexity  
Present Position: Ph.D. Student, University of Goias, Brazil  
Other Supervisors: Principal Supervisor - Pacheco, Wesley

2017/1 - 2021/1 Joseph Boi-Ukeme (In Progress) , Carleton University  
Principal Supervisor Thesis/Project Title: Fault-tolerant methods for discrete-event modeling in Cyber-Physical systems  
Present Position: Ph.D student, Carleton University

- 2017/1 - 2021/1  
Co-Supervisor Alan Henrique Ferreira Silva (In Progress) , Federal University of Goiás, Brazil  
Student Degree Start Date: 2016/9  
Thesis/Project Title: Neural Network Optimization for Translation  
Present Position: Ph.D student, University of Goias, Brazil  
Other Supervisors: Principal Supervisor - Pacheco, Wesley
- 2014/9 - 2019/3  
Principal Supervisor Omar Hesham (Completed) , Carleton University  
Thesis/Project Title: Centroidal Particle Dynamics: An Explicit Model of Pedestrian Personal Space for the Simulation of Short-Range Collision-Avoidance and Emergent Motion Patterns in Dense Crowds  
Present Position: Graphics & HPC Lead at Zetane
- 2014/1 - 2018/3  
Co-Supervisor Cristina Ruiz-Martín (Completed) , Carleton University in co-tutelle with University of Valladolid, Spain  
Thesis/Project Title: A framework to study the resilience of organizations: a case study of a nuclear emergency plan. **Carleton University Senate Medal for Outstanding Graduate Work–Ph.D. Level.**  
Present Position: Postdoctoral Fellow and Instructor, Carleton University  
Other Supervisors: Co-Supervisor - Lopez Paredes, Adolfo
- 2013/9 - 2018/8  
Principal Supervisor Baha Uddin Kazi (Completed) , Carleton University  
Thesis/Project Title: Dynamic Coordination Architecture and Mobility Management for Next Generation Cooperative Cellular Networks”. **Nominated to Carleton University Senate Medal for Outstanding Graduate Work–Ph.D. Level.**  
Present Position: Postdoctoral Fellow and Instructor, Carleton University
- 2013/9 - 2018/8  
Principal Supervisor Ala'a Al-Habashna (Completed) , Carleton University  
Thesis/Project Title: Quality of Experience-Aware Progressive Video Caching and Adaptive Device-to-Device Video Streaming for Cellular Networks with High User Density. **Nominated to Carleton University Senate Medal for Outstanding Graduate Work–Ph.D. Level.**  
Present Position: Postdoctoral Fellow and Instructor, Carleton University
- 2013/1 - 2015/12  
Co-Supervisor Damian Vicino (Completed) , Carleton University in co-tutelle with Université de Nice-Sophia-Antipolis, France  
Thesis/Project Title: Time representation, encoding and processing in Discrete Events Simulation  
Present Position: Researcher, Amazon Inc., Toronto, ON  
Other Supervisors: Co-Supervisor - Dalle, Olivier
- 2012/1 - 2016/12  
Principal Supervisor Misagh Tavanpour (Completed) , Carleton University  
Thesis/Project Title: Upload User Collaboration in the Data Upload for LTE-Advanced Networks  
Present Position: Software Engineer at CISCO
- 2012/1 - 2016/3  
Principal Supervisor Sixuan Wang (Completed) , Carleton University  
Thesis/Project Title: Semantic Mashups Architecture for Reusability with Simulation as a Service  
Present Position: Cloud Architect, Alibaba
- 2008/1 - 2011/12  
Principal Supervisor Ahmed Ahmed Abdalwhab Sayed Ahmed (Completed) , Carleton University  
Thesis/Project Title: A Framework for Interoperability of Virtual Reality and Simulation Models in Support of Training  
Present Position: Assistant Professor, Military Academy Cairo, Egypt



- 2007/5 - 2012/7  
Principal Supervisor Hesham Saadawi (Completed) , Carleton University  
Thesis/Project Title: Verification methodology for DEVS models  
Present Position: Lecturer, University of Saint Thomas
- 2007/3 - 2011/9  
Principal Supervisor Mohammad Moallemi (Completed) , Carleton University  
Thesis/Project Title: Real-time and embedded systems development based on discrete event modeling and simulation (**Runner-up: Best DEVS Modeling and Simulation Ph.D. Dissertation Award 2013**)  
Present Position: Research Assistant Professor, Embry-Riddell Aeronautical University
- 2007/1 - 2011/1  
Principal Supervisor Shafagh Jafer (Completed) , Carleton University  
Thesis/Project Title: Parallel simulation techniques for large-scale discrete-event models (**Carleton University Senate Medal for Outstanding Graduate Work–Ph.D. Level**)  
Present Position: Assistant Professor, Embry-Riddell Aeronautical University
- 2007/1 - 2011/1  
Principal Supervisor Khaldoon Al-Zoubi (Completed) , Carleton University  
Thesis/Project Title: Enhanced Distributed Simulation Interoperability and Algorithms Using Web Services (**Runner-up: Best DEVS Modeling and Simulation Ph.D. Dissertation Award 2012**)  
Present Position: Software Developer at NavCanada
- 2006/1 - 2010/1  
Principal Supervisor Qi Liu (Completed) , Carleton University  
Thesis/Project Title: Algorithms for Parallel Simulation of Large-Scale DEVS and Cell-DEVS Models (**Best DEVS Modeling and Simulation Ph.D. Dissertation Award 2012.**)  
Present Position: Software Engineer II, Windows Azure Analytics. Microsoft Corp.
- 2006/1 - 2010/1  
Co-Supervisor Rodrigo Castro (Completed) , Universidad Nacional de Rosario, Argentina  
Thesis/Project Title: Integrative Tools for Modeling, Simulation and Control of Data Networks ( **Best DEVS Modeling and Simulation Ph.D. Dissertation Award 2013**)  
Project Description: As part of his PhD studies, he was an ELAP Scholar (project: Simulation of distributed models with the IXA platform - 2008)  
Present Position: Tenured Researcher, Assistant Professor, National Research Council (CONICET) and Univ.of Buenos Aires, Argentina  
Other Supervisors: Co-Supervisor - Kofman, Ernesto

**Post-doctorate [n=12]**

- 2019/4 - 2020/4  
Principal Supervisor Hoda Khalil (In Progress) , Carleton University  
Thesis/Project Title: Modeling of CO2 sensors for improvement of sustainability and occupancy detection in buildings  
Present Position: Postdoctoral Fellow and Instructor; Carleton University
- 2019/4 - 2021/4  
Principal Supervisor Vinu Subashini Rajus (In Progress) , Carleton University  
Thesis/Project Title: Defining Personas for DEVS modeling and simulation as an extension for generative design in buildings  
Present Position: Postdoctoral Fellow; Carleton University
- 2018/9 - 2020/1  
Principal Supervisor Ala'a Al-Habashna (In Progress) , Carleton University  
Thesis/Project Title: An IoT infrastructure for development of emergency plans using advanced localization algorithms in 5G networks  
Present Position: Postdoctoral Fellow, CIMS Lab; Instructor, BIT; Carleton University
- 2018/7 - 2021/7  
Principal Supervisor Cristina Ruiz-Martín (In Progress) , Carleton University  
Thesis/Project Title: Performance metrics and analysis for modeling and simulation of sustainability in buildings at a campus and regional scale  
Present Position: Postdoctoral Fellow and Instructor; Carleton University

- 2018/6 - 2019/3  
Principal Supervisor Baha Uddin Kazi (Completed) , Carleton University  
Thesis/Project Title: Advanced Models for 5G networks with application to IoT in emergency situations  
Present Position: Contract Faculty, Ryerson University
- 2017/5 - 2018/8  
Principal Supervisor Wesley Calixto Pacheco (Completed) , Carleton University  
Thesis/Project Title: Modeling and simulation of electromagnetic methods applied to geoprospection  
Present Position: Professor, University of Goias, Brazil
- 2015/11 - 2016/6  
Principal Supervisor Bulent Cobanoglu (Completed) , Carleton University  
Thesis/Project Title: Distributed Simulation with DEVS and HLA  
Present Position: Professor, Sarkarya University, Turkey
- 2015/5 - 2017/5  
Co-Supervisor Diego Ariel Hollmann (Completed) , CIFASIS - Argentina  
Thesis/Project Title: Advanced testing methods with DEVS  
Present Position: Assistant Professor, Catholic University Argentina
- 2014/8 - 2015/9  
Principal Supervisor Braulio Adriano de Mello (Completed) , Carleton University  
Thesis/Project Title: Schedulability analysis for I-DEVS models (Visiting Scholar in 2018-9)  
Present Position: Assistant Professor, Universidade Federal da Fronteira Sul, Brazil
- 2013/1 - 2013/12  
Principal Supervisor Emilie Broutin (Completed) , Carleton University  
Thesis/Project Title: Distributed simulation with web services and smartphones  
Present Position: Researcher, University of Corte, Corsica
- 2011/1 - 2012/1  
Principal Supervisor Mohammad Moallemi (Completed) , Carleton University  
Thesis/Project Title: Embedded systems development with RT-DEVS with application to Augmented Reality using Smartphones  
Present Position: Research Assistant Professor, Embry-Riddell Aeronautical University
- 2011/1 - 2012/1  
Principal Supervisor Judicael Ribault (Completed) , Carleton University  
Thesis/Project Title: Integration and composition of models in global simulations using workflows  
Present Position: Research software developer, University of Bordeaux

**Research Associate [n=8]**

- 2019/10 - 2020/10  
Principal Supervisor Zhao Zheng (In Progress) , Carleton University  
Thesis/Project Title: "Distributed Simulation of DEVS models". Visiting Researcher from Beijing Institute of Space Long March Vehicle, Beijing, China. Funded by the Chinese Scholarship Council.  
Present Position: Visiting Research Scholar, Carleton University
- 2019/5 - 2019/9  
Principal Supervisor Kyle Bjornson (Completed) , Carleton University  
Thesis/Project Title: Building a DEVS-Based robotic controller  
Present Position: Software Engineering, Waterloo
- 2018/9 - 2020/9  
Co-Supervisor Nicolás Arellano (In Progress) , Carleton University (Co-supervisor of Prof. S. Fai, CIMS, Carleton University)  
Thesis/Project Title: Definition of 3D BIM models for simulation models of sustainability in campuses  
Present Position: Ph.D. Student, Carleton University
- 2018/9 - 2019/4  
Co-Supervisor Patrick Gavigan (Completed) , Carleton University  
Thesis/Project Title: Building a BDI agent-based application on Jason for automated surveillance  
Present Position: Ph.D student, Carleton University  
Other Supervisors: Principal Supervisor - Esfandiari, Babak

2018/9 - 2019/5 Co-Supervisor	Alan Davoust (Completed) , Carleton University Thesis/Project Title: A software architecture to interface agent-based models and discrete-event simulation Present Position: Assistant Professor, UQAO Other Supervisors: Principal Supervisor - Esfandiari, Babak
2018/1 - 2018/5 Principal Supervisor	Francisco Figari, University of Buenos Aires, Argentina Thesis/Project Title: Developing controllers for a quadcopter using embedded DEVS (Emerging Leaders of the Americas Program) Present Position: Masters Student, University of Buenos Aires, Argentina
2017/1 - 2017/6 Principal Supervisor	Neisser Pino Romero, Universidad Nacional Mayor de San Marcos, Perú Thesis/Project Title: Studying diffusion of disease using cellular models (Emerging Leaders of the Americas Program) Present Position: Professor, Universidad Peruana Cayetano Heredia
2015/1 - 2016/4 Principal Supervisor	Michael Van Schyndel, Carleton University Thesis/Project Title: Porting SageTea Virtual Machine Present Position: Business Analyst, 2Keys

## Event Administration

2018/12 - 2024/12	Member of the Board of Directors, Winter Simulation Conference, Conference, 2018/12 - 2020/12
2019/6 - 2020/12	Track Co-Chair, Winter Simulation Conference - Modeling Methodologies - Orlando, FL, Conference, 2020/12 - 2020/12
2018/7 - 2020/6	Director-at-Large, Board of Directors, Society for Modeling and Simulation International; San Diego, CA, USA, Association, 2018/7 - 2020/6
2018/6 - 2020/6	Track Co-Chair, Winter Simulation Conference - Methodologies Track. Georgetown, MD., Conference, 2019/12 - 2019/12
2019/3 - 2020/5	Track Co-Chair, Theory and Foundations of Modeling and Simulation (TMS 2020), Washington, DC., Conference, Society for Modeling and Simulation International, 2020/5 - 2020/5
2018/7 - 2020/5	Member of the Steering Committee, Member of the Steering Committee, Spring Simulation Conference. Washington, DC, Conference, Society for Modeling and Simulation International, 2020/5 - 2020/5
2014/4 - 2019/6	Chair of the Steering Committee, Symposium on Theory of Modeling and Simulation (TMS). - Tucson, AZ (2019) - Baltimore, MD (2018) - Virginia Beach, VA (2017) - Pasadena, CA (2016) - Alexandria, VA (2015) - Tampa, FL (2014), Conference, 2014/4 - 2019/4
2018/5 - 2019/5	Member of the Steering Committee, Symposium on Simulation for Architecture and Urban Design - SimAUD 2019, Atlanta, GA, Conference, 2019/5 - 2019/5
2017/1 - 2018/12	Member of the Steering Committee, M&S and Complexity in Intelligent, Adaptive and Autonomous Systems (MSCIAAAS). - Baltimore, MD (2018) - Virginia Beach, VA (2017), Conference, 2017/4 - 2018/4
2013/12 - 2018/12	Program Committee Chair, Winter Simulation Conference, Las Vegas, NV, Conference, 2017/12 - 2017/12

- 2017/6 - 2018/7 Tutorial and Special Sessions Chair, 2018 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications. Ottawa, ON., Conference, IEEE, 2018/3 - 2018/3
- 2009/4 - 2017/9 Member of the Steering Committee, SimuTools Conference (since 2010). - 2018 (Chengdu, China) - 2017 (Hong Kong, China) - 2016 (Prague, Czech Republic) - 2015 (Athens, Greece); - 2014 (Coimbra, Portugal); - 2013 (Nice, France); - 2012 (Desanzano, Italy);, Conference, 2017/8 - 2017/8  
- 2011 (Barcelona, Spain); - 2010 (Málaga, Spain)
- 2014/7 - 2017/6 Director-at-Large, Board of Directors, Society for Modeling and Simulation International; San Diego, CA, USA, Association, 2014/7 - 2017/6
- 2015/6 - 2016/9 Track Co-Chair, Winter Simulation Conference. Wintersim 2016. Arlington, VA, Conference, INFORMS, 2015/12 - 2015/12
- 2015/7 - 2016/8 Chair of the Steering Committee, SummerSim 2016. Montreal, PQ, Canada., Conference, SCS/ACM/IEEE, 2016/7 - 2016/7
- 2015/1 - 2015/7 Publicity Chair, Summer Simulation Multiconference SummerSim 2014. Monterey, CA, Conference, Society of Modeling and Simulation International, 2014/7 - 2014/7
- 2012/7 - 2015/6 Vice-President, Conferences, Society for Modeling and Simulation International; San Diego, CA. USA, Association, 2012/1 - 2015/6
- 2014/5 - 2014/5 Special Sessions Chair, 2014 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications. Ottawa, ON, Conference, 2014/5 - 2014/5
- 2014/5 - 2014/5 Local Arrangement Chair, GRAND NCE Conference, Ottawa, ON, Conference, 2014/5 - 2014/5
- 2014/4 - 2014/4 Chair of the Steering Committee, Symposium on Theory of Modeling and Simulation (TMS/DEVS'14), Tampa, FL, Conference, 2014/4 - 2014/4
- 2011/4 - 2014/4 Member of the Advisory Board, Symposium on Simulation for Architecture and Urban Design: - SimAUD 2014, Tampa, FL - SimAUD 2013, San Diego, CA - SimAUD 2012, Orlando, FL, Conference, 2014/4 - 2014/4
- 2013/5 - 2013/5 Program Chair, First ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS). Montréal, QC, Conference, 2013/5 - 2013/5
- 2012/12 - 2012/12 Track Co-Chair, Modelling Methodologies. Wintersim 2012. Berlin, Germany, Conference, 2012/12 - 2012/12
- 2010/7 - 2012/12 Vice-President, Publications, Society for Modeling and Simulation International; San Diego, CA. USA, Association, 2010/7 - 2012/12
- 2012/5 - 2012/5 Workshop Chair, Modeling and Simulation in Cloud and Grid computing CCGRID'12, Ottawa, ON, Workshop, 2012/5 - 2012/5
- 2012/3 - 2012/3 General Chair, Symposium on Theory of Modeling and Simulation (TMS/DEVS'12), Orlando, FL, Conference, 2012/3 - 2012/3
- 2011/6 - 2011/6 Member of the Advisory Board, The 3rd International Workshop on IT Service & Cloud Computing (ISCC 2011). Crete, Greece, Workshop, 2011/6 - 2011/6
- 2011/6 - 2011/6 Member of the Advisory Board, 25th European Conference on Modeling and Simulation. Krakow, Poland, Conference, 2011/6 - 2011/6
- 2011/4 - 2011/4 General Chair, Symposium on Theory of Modeling and Simulation (DEVS'11), Boston, MA, Conference, 2011/4 - 2011/4

2010/7 - 2010/7	Member of the Steering Committee, SummerSim 2010. Ottawa, ON, Conference, 2010/7 - 2010/7
2010/7 - 2010/7	General Chair, Summer Computer Simulation Conference. Ottawa, ON, Conference, 2010/7 - 2010/7
2010/4 - 2010/4	General Chair, Symposium on Theory of Modeling and Simulation, Orlando, FL, Conference, 2010/4 - 2010/4
2009/12 - 2009/12	Member of the International Advisory Board, The 2nd International Conference on Computer Science and its Applications. Jeju, Korea, Conference, 2009/12 - 2009/12
2001/1 - 2009/12	Chair of the DEVS Standardization Study Group, Simulation Interoperability Standards Organization, Association, 2001/1 - 2009/12
2009/1 - 2009/5	Member of the Organizing Committee, The 2nd Carleton Cell BE Programming Workshop. Ottawa, ON, Workshop, 2009/4 - 2009/4
2009/3 - 2009/3	General Co-Chair, SimuTools 2009, Rome, Italy, Conference, 2009/3 - 2009/3
2009/3 - 2009/3	General Chair, The SCS Spring Computer Simulation Conference. San Diego, CA. 2009, Conference, 2009/3 - 2009/3
2008/12 - 2008/12	Track Coordinator (Modeling Methodologies), Winter Simulation Conference 2008. Miami, FL, Conference, 2008/12 - 2008/12
2008/4 - 2008/4	Vice General Chair, The Spring Computer Simulation Conference 2008, Ottawa, ON, Canada, Conference, 2008/4 - 2008/4
2008/3 - 2008/3	Program Co-Chair, SimuTools 2008, Marseille, France, Conference, 2008/3 - 2008/3
2006/6 - 2008/2	General Chair, Summer Computer Simulation Conference. San Diego, CA., Conference, Society for Modeling and Simulation International, 2007/7 - 2007/7
2004/7 - 2006/6	Member of the Board of Directors, Methodologies Council, Association, Society for Modeling and Simulation International
2002/7 - 2004/7	Chair, Standards Committee, Association, Society for Modeling and Simulation International
2000/7 - 2002/7	Member of the Board of Directors, International Section, Association, Society for Modeling and Simulation International

## Editorial Activities

2012/1 - 2021/1	Member of the Editorial Board, IEEE/AIP Computing in Science and Engineering, Journal
2009/1 - 2021/1	Member of the Editorial Board, Wireless Networks, Springer, Journal
2008/1 - 2021/1	Special Issues Editor, Simulation: Transactions of the Society for Modeling and Simulation International. San Diego, CA, USA, Journal
2008/1 - 2021/1	Associate Editor, Journal of Defense Modeling and Simulation. Society for Modeling and Simulation International. San Diego, CA, USA, Journal
2004/1 - 2021/1	Member of the Editorial Board, International Journal of Simulation and Process Modelling, Inderscience Publishers, Journal
2015/6 - 2018/6	Proceedings Co-Editor, Proceedings of the Winter Simulation Conference, Book Eds:V. Chan, A. D'Ambrogio, N. Mustafee, G. Zacharewicz, G. Wainer, E. Page.
2015/4 - 2016/5	Guest Special Issue Editor, IEEE/AIP Computing in Science and Engineering, Journal G.Sirakoulis, J. Was, G. Wainer

2013/1 - 2013/5	Proceedings Co-Editor, Proceedings of 2013 ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS). Eds.: M. Loper, G. Wainer, Book
2013/1 - 2013/4	Proceedings Co-Editor, Proceedings of the Symposium of Theory of Modeling and Simulation (TMS/DEVS'13). Eds.: G. Wainer, P. Mosterman, G. Zacharewicz, F. Barros. Society for Modeling and Simulation International (SCS), Book
2012/1 - 2012/5	Proceedings co-Editor, Proceedings of the Symposium of Theory of Modeling and Simulation (TMS/DEVS'12). Eds.: G. Wainer, P. Mosterman, A. D'Ambrogio, G. Zacharewicz. Society for Modeling and Simulation International (SCS), Book
2011/1 - 2011/4	Proceedings Co-Editor, Proceedings of the Symposium of Theory of Modeling and Simulation (TMS/DEVS'11). Eds.: J. Himmelspach, R. Heikel, G. Wainer, M. K. Traoré. SCS/ACM, Book
2010/1 - 2010/7	Proceedings Co-Editor, Proceedings of the Summer Computer Simulation Conference (SCSC'10). Eds.: G. Wainer, A. Tolks, P. Kropf. SCS/ACM, Book
2010/1 - 2010/4	Proceedings Co-Editor, Proceedings of the Symposium of Theory of Modeling and Simulation (TMS/DEVS'10). Eds.: G. Wainer, M.K. Traoré. SCS/ACM. SCS Simulation Series, Book
2009/1 - 2009/5	Proceedings Co-Editor, Proceedings of SimuTools 2009. Eds.: O. Dalle, G. Wainer. ICST, Book
2009/1 - 2009/3	Proceedings Co-Editor, Proceedings of the Spring Simulation Conference. Eds.: G. Wainer, M. Chinni. SCS/ACM. San Diego, CA, Book
2002/1 - 2008/12	Associate Editor, Simulation: Transactions of the Society for Modeling and Simulation International. San Diego, CA, USA, Journal
2008/1 - 2008/4	Proceedings Co-Editor, Proceedings of the Spring Simulation Conference. Eds.: H. Rajaei, G. Wainer, M. Chinni. SCS/ACM. San Diego, CA, Book
2007/3 - 2008/3	Proceedings Co-Editor, Proceedings of SimuTools 2008. Eds.: O. Dalle, G. Wainer. ICST, Book
2006/8 - 2007/11	Proceedings Co-Editor (General Chair), Summer Computer Simulation Conference. Society for Modeling and Simulation International (SCS). San Diego, CA, Book

## Journal Review Activities

2019/1 - 2019/12	Reviewer, Defence R&D Canada Scientific Reports
2018/1 - 2018/12	Reviewer, The Journal of Supercomputing. Elsevier; Reliability Engineering and System Safety. Elsevier; ACM Transactions on Modeling and Computer Simulation; ACM Transactions on the Web
2017/1 - 2017/12	Reviewer, Computers and Operations Research. (Elsevier). IEEE Transactions on Parallel and Distributed Computing
2015/1 - 2015/12	Reviewer, ACM Transactions on Modeling and Simulation; The Journal of Supercomputing. Elsevier; Journal of Ambient Intelligence & Humanized Computing (AIHC), Elsevier
2014/1 - 2014/12	Reviewer, ACM Transactions on Modeling and Simulation. Journal of Computational Science (Elsevier)
2013/1 - 2013/12	Reviewer, Software, Practice and Experience (Wiley). ACM Transactions on Modeling and Simulation. The Journal of Supercomputing (Elsevier). Building and Environment (Elsevier).

2012/1 - 2012/12	Reviewer, Environmental Modelling and Software (Elsevier). Software and Systems Modeling (Elsevier). Software, Practice and Experience (Wiley). ACM Transactions on Modeling and Simulation.
2011/1 - 2011/1	Reviewer, IEEE Systems, Man and Cybernetics. Part C: Applications and Reviews. Software and Systems Modeling (Elsevier).
2010/1 - 2010/12	Reviewer, Control Engineering Practice (Elsevier). IEEE Transactions on Vehicular Technologies Simulation, Practice and Experience (Elsevier). Parallel Processing (Elsevier). ETRI Journal., IEEE Systems, Man and Cybernetics. Part A. IEEE Systems, Man and Cybernetics. Part C: Applications and Reviews.
2009/1 - 2009/12	Reviewer, Journal of Simulation (Palgrave). ACM Transactions on Modeling and Simulation. Simulation, Practice and Experience (Elsevier). Intl. Journal of Vehicle Systems Modelling and Testing (Inderscience)
2008/1 - 2008/12	Reviewer, ACM Transactions on Modeling and Simulation. IEEE Systems, Man and Cybernetics. Part C: Applications and Reviews., Ibero-American Journal on Automatics and Industrial Informatics (in Spanish-RIAll) Journal of Simulation (Palgrave) IEEE Software
2007/1 - 2007/12	Reviewer, ACM Transactions on Modeling and Simulation. Journal of Defense Modeling and Simulation. Simulation, Practice and Experience (Elsevier). Ecological Informatics (Elsevier), Discrete Event Dynamic Systems: Theory and Applications (Elsevier). Book reviewer for John Wiley & Sons, Inc.
2006/1 - 2006/12	Reviewer, ACM Transactions on Modeling and Simulation. Journal of Defense Modeling and Simulation. Simulation, Practice and Experience (Elsevier).
2005/1 - 2005/12	Reviewer, Simulation, Practice and Experience (Elsevier). The Journal of Supercomputing (Elsevier). ACM Transactions on Modeling and Simulation. Pharmaceutical Research (Springer-Verlag).
2004/1 - 2004/12	Reviewer, Information and Software Technology (Elsevier). Simulation, Practice and Experience (Elsevier).
2003/1 - 2003/12	Reviewer, Environmental Modelling and Software (Elsevier). Information and Software Technology, Elsevier. International Journal of Simulation and Process Modeling (Inderscience).
1999/1 - 2002/12	Reviewer, Transactions of the Society of Computer Simulation
2002/6 - 2002/9	Reviewer, Book reviewer for John Wiley & Sons, Inc. N.Y., USA.

## Graduate Examination Activities

2006/1	PhD Oral Exam Member, (4 Ph.D. Proposals), Systems and Computer Engineering, Carleton University
2005/4	PhD External Examiner, (OCIECE - 8 PhD Defences), University of Ottawa
2005/4	PhD Comprehensive Exam Committee Member, (7 Ph.D. Comprehensive Exams), University of Ottawa
2003/1	PhD Comprehensive Exam Committee Member, (20 Comprehensive Exams), Systems and Computer Engineering, Carleton University
2003/1	PhD Oral Exam Member, (13 PhD Defences), Systems and Computer Engineering, Institute of Cognitive Science, Computer Science, Psychology, Carleton University
2002/3	PhD Oral Exam Member, (7 PhD Proposal Exams), University of Ottawa



- 2002/1 Master's Oral Exam Member, (37 Masters theses), (Systems and Computer Engineering, Civil Engineering), Carleton University
- 2002/1 Master's Oral Exam Member, (30 M.Sc./M.A.Sc. defences), University of Ottawa

## Organizational Review Activities

- 2016/6 - 2020/6 Member of the NSERC Evaluation Group. Discovery Grants, Natural Sciences and Engineering Research Council of Canada (NSERC)  
Evaluation Group for Computer Science. External for: Electrical Engineering (2016-18, 19), Civil Engineering (2019). Acting Chair (2018-9)
- 2019/6 - 2019/9 External evaluator, Croatian Science Foundation  
Evaluator for the "Installation Research Project" program.
- 2017/5 - 2019/6 External Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC)  
External Reviewer for the Canada Research Chairs, RGPIN and Alliance programs.
- 2015/3 - 2019/3 External evaluator, CAPES (Brazil)  
Member of the Bank of Reviewers
- 2014/1 - 2018/12 External evaluator, College of Reviewers, Ontario Centres of Excellence  
Project Evaluation
- 2014/1 - 2017/12 External evaluator, National Center of Science and Technology Evaluation (Kazakhstan)  
Research Project Evaluation in years 2014 and 2017
- 2010/1 - 2017/1 External evaluator, Fond National de la Recherche Scientifique, Belgium  
Project Evaluation for FNRS in 2010, 2014 and 2017
- 2016/3 - 2016/3 External Evaluator, Ministry of Science, Technology and Space of Israel/Japan Science and Technology Science  
Japan-Israel Scientific Research Cooperation
- 2015/1 - 2015/12 External Evaluator, Natural Sciences and Engineering Research Council of Canada (NSERC)  
Project Evaluation (CRD, I2I)
- 2014/1 - 2014/12 External evaluator, Natural Sciences and Engineering Research Council of Canada (NSERC)  
Project Evaluation - Discovery Grants
- 2013/3 - 2014/5 External evaluator, INRIA Bordeaux (AERES program), France  
Evaluated the overall performance of the INRIA centre at Bordeaux, France. One of the 2 Canadian experts (8 international experts, 32 evaluators for the whole INRIA network)
- 2013/1 - 2013/12 External evaluator, University of Luxembourg, IRP Program.  
Project Evaluation
- 2013/1 - 2013/12 External evaluator, University of Southern Denmark, SDU2020 Program.  
Project Evaluation
- 2013/1 - 2013/12 External evaluator, Czech Science Foundation  
Project Evaluation
- 2013/1 - 2013/12 External evaluator, Natural Sciences and Engineering Research Council of Canada (NSERC)  
Project Evaluation - Discovery Grants



2012/1 - 2012/12	External evaluator, Natural Sciences and Engineering Research Council of Canada (NSERC) Project Evaluation - Discovery Grants
2011/1 - 2011/12	External evaluator, Defence R&D Canada. Centre for Operational Research and Analysis Project Evaluation
2011/1 - 2011/12	External evaluator, Austria Science Fund Project Evaluation (Natural and Technical Sciences Project)
2010/1 - 2010/12	External evaluator, Academic Research Program, Department of National Defence (Canada) Project Evaluation
2010/1 - 2010/12	External evaluator, University of Buenos Aires - Research Projects Program Project Evaluation
2010/1 - 2010/12	External evaluator, Fond National de la Recherche Scientifique, Belgium Project Evaluation for FNRS
2014/11 - 2010/1	External evaluator, Argentine Agency of Science and Technology Evaluated 6 different Research Project for the programs: PICT, PID, 2nd Centennial Grants, and FONARSEC (2010-14).
2009/1 - 2009/12	External evaluator, ARTEMIS program (Joint Undertaking with FP7; European Union) Project Evaluation for the ARTEMIS program, a part of the EU FP7 research program
2009/1 - 2009/12	External evaluator, Academic Research Program, Department of National Defence (Canada) Project Evaluation
2009/1 - 2009/12	External evaluator, ACCELERATE College of Reviewers (MITACS) Project Evaluation for ACCELERATE Program
2007/1 - 2009/12	External evaluator, CYTED program (Ibero-American Program on Science and Technology for the Development) Project Evaluation
2008/1 - 2008/12	External evaluator, Converging Technologies program of the Piedmont Region, Italy Project Evaluation
2008/1 - 2008/12	External evaluator, COSINUS program, Agence Nationale de Recherche, France Project Evaluation
2008/1 - 2008/12	External evaluator, Natural Sciences and Engineering Research Council of Canada (NSERC) Project Evaluation - Discovery Grants
2006/3 - 2006/11	External evaluator, CITO Project Evaluation
2002/1 - 2002/5	External evaluator, Fonds de recherche du Québec - Nature et technologies (FRQNT) Research Project Evaluation
1999/1 - 1999/5	External evaluator, National Council Sci & Tech Res (CONICET) Research project evaluation
1997/1 - 1997/5	External evaluator, CSIC - Universidad de la República Research Project Evaluation

## Knowledge and Technology Translation

- 2017/11 - 2019/8      Research Collaboration, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: Humanitas Solutions Inc  
 Target Stakeholder: Industry/Business-Small (<100 employees)  
 Outcome / Deliverable: Advanced modeling and simulation of resiliency in the software communication for emergency plans. Development of BLE based protocols for IoT devices in their Maven software stack
- 2018/6 - 2019/6      Research Collaboration, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: Cohort Systems  
 Target Stakeholder: Industry/Business-Small (<100 employees)  
 Outcome / Deliverable: A prototype human operated multi-domain control station to control and supervise a large team of collaborative autonomous Unmanned Vehicles (UxVs). This included a simulator that models various UxVs, an an Operator Control Station, and a Multi-Agent Reasoning System (MARS) to provide autonomous self and team mission execution on a UxV.
- 2017/12 - 2018/5      External Advisor, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: GyL and Port of Buenos Aires  
 Target Stakeholder: Industry/Business-Small (<100 employees)  
 Outcome / Deliverable: Risk analysis for the development/extension of a simulator based on CATIA/NAUTIS for the Port of Buenos Aires and different ports in Argentina, with the objective of training vessel operators. We conducted risk analysis of different modeling and simulation options and advised the company on the best course of action.
- 2012/5 - 2016/9      Research Advisor, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: Ericsson Canada  
 Target Stakeholder: Industry/Business (>500 employees)  
 Outcome / Deliverable: Definition of new algorithms for advanced wireless communication in LTE networks (seven patents filed).
- 2014/7 - 2016/5      Research Advisor, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: SageTea Inc  
 Target Stakeholder: Industry/Business-Small (<100 employees)  
 Outcome / Deliverable: A new set of algorithms based on ontology generation software to improve the automation of code generation for SageTea
- 2010/4 - 2014/1      Research Advisor, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: Autodesk Research Canada  
 Target Stakeholder: Industry/Business-Medium (100 to 500 employees)  
 Outcome / Deliverable: Technology transfer about the DEVS formalism; seminars and technical advice. Autodesk Research now has incorporated a DEVS simulation tool in their software.
- 2011/6 - 2012/6      Research Advisor, R&D Collaboration with Industry  
 Group/Organization/Business Serviced: Ideeclic Inc.  
 Target Stakeholder: Industry/Business-Small (<100 employees)  
 Outcome / Deliverable: A software application prototype for augmented reality to be used for multimedia delivery on smartphones

## International Collaboration Activities

- 2012/7 - 2022/7      Researcher, Argentina  
 Joint research activities with the Computer Science Department. Joint research on Discrete-Event Simulation (Castro R\*, Belloli L\*, Zapatero M\*, Lanuza J\*, Figari G\*, Fernando C\*). Various visits from researchers in the two labs, and varied publications as a result of this collaboration. Responsible for a Memorandum of Understanding signed between Carleton University and University of Buenos Aires.
- 2015/1 - 2022/1      Researcher, Spain  
 Joint research activities with University of Valladolid (A. López-Paredes, \*C Ruiz-Martín) to conduct research in agent-based modeling and discrete-event simulation. Responsible for signing a Memorandum of Understanding between Carleton University and UVa.
- 2013/1 - 2022/1      Researcher, Chile  
 Joint research on modeling Web Centers (Inostrosa-Psijas A\*, Loor F\*, Gil-Costa V, Marín M) with Yahoo Research Latinamerica, University of Santiago, University Arturo Pratt (Chile), National University of San Luis (Argentina). Joint publications and research visits between the two groups. Responsible for a Memorandum of Understanding signed between Carleton and UNSL Argentina to conduct research in parallel simulation.
- 2014/2 - 2021/1      Researcher, Brazil  
 Joint research activities with University of Pernambuco (Prof. S. Fernandes) and University of Goiás (Prof. W. Calixto) to interchange Ph.D. students and researchers with the Advanced Real-Time Simulation Lab at Carleton University. Responsible for a Memorandum of Understanding signed between Carleton University and Federal Institute of Goiás.
- 2010/6 - 2016/6      Researcher, France  
 INRIA Sophia Antipolis, France (Projects MASCOTTE and OASIS. Participants: Dalle O, Mancini E\*, Maureira-Bravo JC\*, Mosteiro J\*, Ribault J\*, Nguyen VD). Carleton's Advanced Real-Time Simulation Lab was an INRIA Associate Team (DISSIMINET). During this project we carried out research in the fields of simulation methodologies, resulting in numerous visits, organization of joint events and publications. Ribault J\* was a postdoctoral fellow at Carleton, and we co-supervised a Ph.D. Student (Vicino D\*). Responsible for a Memorandum of Understanding between Carleton University and University of Nice Sophia Antipolis.
- 2001/1 - 2015/10      Researcher, France  
 Joint research activities with IMS Center at the University of Bordeaux, LSIS at the University of Marseille, Université Blaise-Pascal, and INSA Rouen, France. Joint work on discrete-event modeling and simulation and distributed simulation (C. Zanni-Merk at INSA; G. Zacharewicz at IMS; C Frydman, L Baati\* at LSIS; M Traoré, J Landais\*, L Quinet\*, at Blaise Pascal). Various research visits organized between the teams. Responsible for a Memorandum of Understanding between INSA Rouen and Carleton.
- 2009/5 - 2015/7      Researcher, Argentina  
 Joint research activities with CIFASIS (International French-Argentinian Center on Information Science and Systems). Joint research on Discrete-Event Simulation (Kofman E, Castro R\*, Bergero F\*, Ramello I\*, Hollman D\*). Various visits from researchers in the two labs, and various publications as a result of this collaboration.
- 2007/6 - 2013/7      Supervisor, China  
 Profs. Hu R (Jiangsu University of Science and Technology), Qiu M and Yan L (National University of Defense Technology, Hunan), obtained a scholarship to visit our lab for one year each in order to learn the basic concepts about the methodologies and tools invented at Carleton, and to teach the concepts invented at Carleton back in their home Universities.

- 2010/3 - 2012/7      Researcher, Spain  
Joint research with a team at UNED/UC Madrid (Urquía A, Moreno A\*, Sanz V\*). The Spanish team visited our lab for one year in 2010-11. Joint publications, lab visits, seminars.
- 2001/6 - 2012/4      Researcher, United States  
I chaired the DEVS Standardization Study Group (main collaborators: Zeigler BP, Kim TG, Nutaro J, Sarjoughian H, Hwang MH, Vangheluwe H, Mittal S, Risco-Martín JL, Hill D, Dalle O, Traoré MK). Collaborated on the definition of standards based on the DEVS formalism. Numerous joint publications were derived from this effort and various joint workshops were organized.
- 2004/6 - 2011/3      Researcher, United States  
ACTIMS, University of Arizona (Zeigler BP, Sarjoughian H). We collaborated in the definition of new algorithms for distributed simulation based on Web Services. Two research visits to ACTIMS in 1999 and 2000. Collaboration in the DEVS Standardization group.

## Committee Memberships

- 2019/8 - 2020/7      Committee Member, The Second International Symposium on Simulation and Process Modelling, Inderscience  
Shenyang, China
- 2019/1 - 2019/12      Committee Member, 11th System Analysis and Modelling Conference (workshop of MODELS 2019)., IEEE  
Munich, Germany
- 2018/1 - 2018/12      Committee Member, ACRI 2018 (Cellular Automata for Research and Industry). Lake Como, Italy., Università degli studi di Milano-Bicocca
- 2018/5 - 2018/8      Committee Member, MULTILOG 2018, Challenges and Innovative Solutions for Multimodality in Global Transport Networks. Puerto Escondido, México., University of Amsterdam (Universiteit van Amsterdam)
- 2018/3 - 2018/7      Committee Member, International Joint Conference - CIO-ICIEOM-IISE-AIM, Girona, Spain, ADINGOR
- 2010/7 - 2018/7      Committee Member, Collaborative Modeling & Simulation CoMetS (Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises, WETICE) - 2018. Paris, France - 2014. Parma, Italy - 2012. Toulouse, France, IEEE - 2011. Paris, France - 2010. Larissa, Greece.
- 2015/12 - 2016/12      Committee Member, Journées DEVS Francophones. Théorie et Applications / Workshop. Cargese., University of Corsica
- 2014/3 - 2016/12      Committee Member, IEEE International Symposium on INnovations in Intelligent SysTems and Applications, - Sinaia, Romania (2016) - Madrid, Spain (2015) - Alberobello, Italy (2014), IEEE
- 2013/6 - 2016/12      Committee Member, IEEE/ACM International Symposium on Distributed Simulation and Real Time Applications DS-RT. - Cosenza, Italy. 2019 - Madrid, Spain. 2018. - Rome, Italy. 2017. - London, UK. 2016 - Chengdu, China. 2015. - Toulouse, France. 2014., IEEE
- 2013/3 - 2016/12      Committee Member, International Conference on Computer, Information, and Telecommunication Systems, - 2016. Kunming, China. - 2015, Gijón, Spain - 2014, Jeju, Korea - 2013, Athens, Greece, IEEE

- 2008/6 - 2016/12 Committee Member, Intl. Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS) - 2019. Berlin, Germany - 2018. Bordeaux, France - 2017. Seattle, WA - 2016. Montréal, QC. - 2015. Chicago, IL - 2014. Monterey, CA, IEEE / Society for Modeling and Simulation International - 2013. Toronto, ON - 2012. Genoa, Italy- 2011. The Hague, Netherlands - 2010. Ottawa, ON - 2009. Istanbul, Turkey
- 2016/1 - 2016/11 Committee Member, 15th IEEE International Symposium on Network Computing and Applications, IEEE
- 2015/6 - 2016/6 Committee Member, Modeling and Simulation of Complexity in Intelligent, Adaptive and Autonomous Systems, Society for Modeling and Simulation International
- 2013/6 - 2016/6 Committee Member, 2nd ACM SIGSIM Conference on Principles of Advanced Discrete Simulation. (PADS) - 2018, Rome, Italy - 2017, Singapore - 2016. Banff, AB. - 2015, London, UK. - 2014, Denver, CO., ACM
- 2013/6 - 2016/6 Committee Member, ASIM Symposium on Simulation. - Hamburg, Germany (2018) - Dresden, Germany (2016) - Berlin, Germany (2014), ASIM
- 2013/1 - 2016/1 Committee Member, Winter Simulation Conference - Georgetown, MD. 2019. - Gothenburg, Sweden. 2018 - Huntington Beach, VA. 2015 - Savannah, GA. 2014 - Washington, DC. 2013, INFORMS/IEEE/SCS/NIST/IFORS
- 2005/8 - 2015/8 Committee Member, Agent-Directed Simulation Conference. - 2014. Tampa, FL - 2013. San Diego, CA - 2012. Orlando, FL - 2011. Boston, MA - 2010. Orlando, FL - 2009. San Diego, CA - 2008. Ottawa, ON - 2007. Norfolk, VA - 2006. Huntsville, AL - 2005. San Diego, CA, SCS
- 2001/8 - 2015/8 Committee Member, Summer Computer Simulation Conference - 2015. Chicago, IL. - 2014. Monterey, CA - 2013. Toronto, ON - 2012. Genoa, Italy - 2011. The Hague, Netherlands - 2009. Istanbul, Turkey - 2006. Calgary, AB - 2005. Philadelphia, PA, Society for Modeling and Simulation International - 2004. San Jose, CA - 2003. Montréal, QC - 2002. San Diego, CA
- 2015/1 - 2015/6 Committee Member, 7th International Conference on Discrete Models of Complex Systems. Toronto, ON., Fields Inst. for Res. in Mathematical Sc.
- 2012/1 - 2015/1 Committee Member, International Conference of MOdeling, Optimization and SIMulation (MOSIM) - 2018, Toulouse, France - 2014, Bordeaux, France - 2012, Nancy, France, IEEE
- 2013/6 - 2014/6 Committee Member, 7th Spatial Computing Workshop. Paris, France, AAMAS
- 2012/12 - 2013/12 Committee Member, Asia Simulation Conference 2013. Singapur, SSGS/NUS/NTU
- 2012/6 - 2013/6 Committee Member, International Conference on Computer, Information and Telecommunication Systems. Athens, Greece, IEEE
- 2012/5 - 2013/5 Committee Member, International Conference on Industrial Engineering and Operations Management. Valladolid, Spain, ADINGOR/ABEPRO/INSISOC
- 2009/4 - 2012/4 Committee Member, ValueTools - 2012. Cargese, France - 2011. Cachan, France - 2009. Pisa, Italy, ICST
- 2006/1 - 2011/11 Committee Member, European Modeling and Simulation Symposium - 2010. Fes, Morocco - 2009. Tenerife, Spain - 2008. Briatico, Italy - 2007. Bergeggi, Italy - 2006. Barcelona, Spain - 2005. Marseille, France - 2004. Bergeggi, Italy, I3M
- 2010/8 - 2011/8 Committee Member, 2nd Symposium on Simulation for Architecture and Urban Design. Boston, MA, SCS

- 2012/6 - 2011/6 Committee Member, International Conference on Computer, Information and Telecommunication Systems. Amman, Jordan, Hashemite University/Philadelphia University
- 2009/11 - 2010/11 Committee Member, CLEI (Latin American Conference on Informatics). - 2009. Pelotas, Brazil - 1999. Asuncion, Paraguay, CLEI
- 2009/9 - 2010/9 Committee Member, AISSAI (19th European Conference on Artificial Intelligence). Lisbon, Portugal, AISSAI
- 2009/8 - 2010/8 Committee Member, International Workshop on Software and Simulation Components. ICISOFT'10. Athens, Greece, Universitat Trier/Schloss Dagstuhl
- 2009/6 - 2010/6 Committee Member, Organizing committee of First Symposium on Simulation for Architecture and Urban Design. Orlando, FL, SCS
- 2001/5 - 2010/5 Committee Member, DEVS International Symposium - 2009. San Diego, CA - 2007. Norfolk, VA - 2005. San Diego, CA - 2001. Marseille, France, SCS
- 2007/4 - 2010/4 Committee Member, Advanced Computer Simulation track, ACM SAC - 2010. Sierre, Switzerland - 2009. Honolulu, HI - 2008. Fortaleza, Brazil, ACM
- 2009/3 - 2010/3 Committee Member, 2010 International Workshop on Multi-Core Computing Systems. Krakow, Poland, IEEE
- 2008/12 - 2009/9 Committee Member, Advanced Computer Simulation track, ACM SAC. Honolulu, Hawaii, ACM
- 2008/5 - 2009/5 Committee Member, Annual Simulation Symposium. - 2009, San Diego, CA - 2008, Ottawa, ON - 2007, Norfolk, VA - 2006, Huntsville, AL - 2005, San Diego, CA - 2004, Arlington, VA - 2003, Orlando, FL - 2002, San Diego, CA, SCS/ACM
- 2008/9 - 2009/4 Committee Member, NSTools Workshop 2009. Pisa, Italy, ICST
- 2008/1 - 2008/9 Committee Member, Advanced Computer Simulation track, ACM SAC. Fortaleza, Brazil, ACM
- 2007/7 - 2008/7 Committee Member, European Conference on Modeling and Simulation. Nicosia, Cyprus, University of Cyprus
- 2007/6 - 2008/6 Committee Member, I2MTC 2008 – International Instrumentation & Measurement Technology Conference. Victoria, BC, IEEE
- 2007/5 - 2008/5 Committee Member, High Performance Computing and Simulation 2008. Ottawa, ON, Society for Modeling and Simulation International
- 2006/1 - 2007/12 Committee Member, International Workshop on Haptic Audio Visual Environments and their applications. - Ottawa, ON (2006, 2007), IEEE
- 2005/1 - 2007/12 Committee Member, International Conference on Grid Services Engineering and Management (GSEM) - 2007. Leipzig, Germany - 2006. Erfurt, Germany - 2005. Erfurt, Germany
- 2000/3 - 2007/12 Committee Member, Artificial Intelligence, Simulation and Planning and Conceptual Modeling and Simulation (AIS) - 2007. Buenos Aires, Argentina. - 2004. Jeju, Korea. - 2002. Lisbon, Portugal. - 2000. Tucson, AZ
- 2005/1 - 2005/12 Committee Member, Open International Conference on Modeling & Simulation. Clermont-Ferrand, France., Université Blaise-Pascal
- 2003/1 - 2003/12 Committee Member, AST Symposium; 32nd Argentine Conference on Informatics and Operations Research. Buenos Aires, Argentina, SADIO

- 2002/1 - 2003/12 Committee Member, SISO European Simulation Interoperability Workshop - 2003. Stockholm, Sweden - 2002. London, England, Simulation Interoperability Standards Organization (SISO)
- 2001/1 - 2001/6 Group Chair, DEVS standardization. Advanced Simulation Technical Conference. Seattle, WA, Society for Modeling and Simulation International

## Other Memberships

- 2019/6 - 2019/9 External Reporter, Southern Denmark University  
Ph.D. External Committee Member. Student: Elena Markoska
- 2018/9 - 2018/10 External Evaluation for Promotion, Jordan University of Science and Technology  
Department of Software Engineering. Candidate: Prof. Lu'ay Mohammed Deeb Alawneh
- 2018/7 - 2018/9 External Evaluator for Tenure and Professorship, Southwest Texas State University  
Candidate: Prof. J. Jiménez.
- 2017/6 - 2017/9 External Evaluator for Tenure, Southwest Texas State University  
Candidate: Prof. Eduardo Pérez.
- 2017/1 - 2017/5 External Evaluator for Tenure and Professorship, Loyola College in Maryland  
Candidate: Prof. Megan Olsen
- 2017/3 - 2017/4 External Evaluator, Université de Nice, Sophia-Antipolis  
Habilitation pour Diriger la Recherche (HDR). Prof. Alexandre Muzy.
- 2016/5 - 2016/12 External Committee Member for Professorship, Universidad de Buenos Aires  
Jury member for Assistant Professor position. Candidates: Dr. Rodrigo Castro, Dr. Hernán Melgratti, Dr. Juan Pablo Galeotti.
- 2016/7 - 2016/11 External Reporter for Habilitation pour la Recherche, University of Corsica  
Candidate: Dr. Laurent Capocchi
- 2016/5 - 2016/9 External Reporter, Université Paul Sabatier  
Phd. Candidate: Sangeeth Ponnsunamy
- 2016/6 - 2016/7 External Evaluator for Mid Tenure, City University of New York - Staten Island  
Candidate: Prof. Feng Gu
- 2015/5 - 2015/12 External Evaluator for Full Professorship, Loyola College in Maryland  
Candidate: Prof. Mohammad Raunak.
- 2015/5 - 2015/7 External Evaluator for Full Professorship, Old Dominion University  
Candidate: Prof. John Sokolowski
- 2015/1 - 2015/4 External Examiner, Universidad de Buenos Aires  
Jury member for Assistant Professor candidates.
- 2014/3 - 2014/9 External Evaluator for Full Professorship, State Univ of New York - Binghamton  
Candidate: Prof. Dmitry V. Ponomarev
- 2014/5 - 2014/7 External Evaluator for Full Professorship, Ryerson University  
Candidate: Prof. Abdolreza Abhari
- 2013/3 - 2013/5 External Reporter, Université de Lorraine, Nancy France  
Committee Member of Habilitation pour Recherche (HDR) Thesis. Candidate: Dr. Martin Quinson, Maitre de Conférences.
- 2012/3 - 2012/5 External Reporter, Université Clermont-Ferrand II (B. Pascal)  
Committee Member of of Ph.D. Thesis. Ph.D. Candidate: Luc Touraille.



2012/2 - 2012/4	External Reporter, University of Corsica, Corte, France Committee Member of Ph.D. Defence. Ph.D. Candidate: Emilie Broutin
2011/3 - 2011/5	External Reporter, Université de Nice Sophia-Antipolis Committee Member of Ph.D. Thesis. Ph.D. Candidate: Judicaël Ribault
2011/3 - 2011/5	External Examiner, Université de Nice Sophia-Antipolis Committee Member of Ph.D. Thesis. Ph.D. Candidate: Juan Carlos Maureira.
2010/3 - 2010/5	External Examiner, Université D'Aix-Marseille III (D'Economie & Sci) Committee Member of of Ph.D. Thesis. Ph.D. Candidate: Trojet Wassim.
2009/3 - 2009/5	External Examiner, Old Dominion University Committee Member of Ph.D. Thesis proposal. Student: Charles Turnitsia.
2008/3 - 2008/5	External Examiner, Université D'Aix-Marseille III (D'Economie & Sci) Committee Member of Ph.D. Ph.D. Candidate: Lassaad Baati.
2008/3 - 2008/5	External Examiner, École Polytechnique de Montréal Committee Member of Ph.D. exam. Ph.D. Candidate: Essaid Bensoudane.
2008/3 - 2008/5	External Examiner, University of Pretoria Committee Member of M.Sc. Thesis. Student: S. Duvenage.
2008/3 - 2008/5	External Examiner, McGill University Committee Member of Ph.D. Thesis. Ph.D. Candidate: Ernesto Posse.
2007/3 - 2007/6	External Examiner, Universitat Politècnica de Catalunya Committee Member of Ph.D. Thesis. Ph.D. Candidate: Pau Fonseca
2006/1 - 2006/6	External Examiner, Université D'Aix-Marseille III (D'Economie & Sci) Committee Member of Ph.D. Thesis. Ph.D. Candidate: Gregory Zacharewicz
2005/1 - 2005/6	External Examiner, University of Corsica, Corte, France Committee Member of Ph.D. Thesis. Ph.D. Candidate: Laurent Capocci

## Presentations

- (2019). Applying Modelling and Simulation for Development of Embedded Systems (Tutorial). Summer Simulation Conference, Berlin, Germany  
Invited?: Yes, Keynote?: No, Competitive?: No
- (2019). Introduction to Discrete-Event Modeling and Simulation for Building Design (Seminar). Seminar at the Maersk Mc-Kinney Moller Institute. University of Southern Denmark, Odense, Denmark  
Invited?: Yes, Keynote?: No
- (2019). Discrete-Event Modeling and Simulation Methodologies: Past, Present and Future. International Conference on Mathematical Models & Computational Techniques in Science & Engineering, London, United Kingdom  
Invited?: Yes, Keynote?: Yes
- (2019). Applying Modelling and Simulation for Development Embedded Systems (Tutorial). Summer Simulation Conference, Berlin, Germany  
Invited?: Yes, Keynote?: No, Competitive?: Yes
- (2019). Discrete-Event Modeling and Simulation for Development of Embedded and Real-Time Systems. 27th IEEE International Symposium on the Modeling, Analysis, and Simulation of Computer and Telecommunication Systems. MASCOTS., Rennes, France  
Invited?: Yes, Keynote?: Yes



6. (2019). An Introduction to Cellular Automata Models with Cell-DEVS (Tutorial). Winter Simulation Conference, National Harbor, MD, United States  
Invited?: Yes, Keynote?: No
7. (2019). Modeling and Simulation Education in the CPS Era (Panel). Summer Simulation Conference, Berlin, Germany  
Invited?: Yes, Keynote?: No, Competitive?: No
8. Cristina Ruiz-Martin. (2019). Building DEVS Models with the Cadmium Tool (Tutorial). Winter Simulation Conference, National Harbor, MD, United States  
Invited?: Yes, Keynote?: No
9. (2019). Advances in Discrete-Event Crowd Modeling and Simulation. EMENA-ISTL, Marrakech, Morocco  
Invited?: Yes, Keynote?: Yes
10. (2019). Formal Discrete-Event Modeling and Simulation Methodologies (Seminar). INSA, Rouen, France  
Invited?: Yes, Keynote?: No
11. (2019). Discrete-Event Modeling and Simulation for Cyber-Physical Systems (Seminar). University of Marseille, Marseille, France  
Invited?: Yes, Keynote?: No
12. (2019). Simulation Everywhere (Seminar). Brunel University, London, United Kingdom  
Invited?: Yes, Keynote?: No
13. (2018). Spatial Systems Modelling with Cellular Discrete-Event Modeling and Simulation (Tutorial). Summer Simulation Conference, Bordeaux, France  
Invited?: No, Keynote?: No, Competitive?: Yes
14. (2018). Distributed and Real-Time Simulation Everywhere (Seminar). INSISOC. University of Valladolid, Valladolid, Spain  
Invited?: Yes, Keynote?: No
15. (2018). 50 Summers of Computer Simulation (Panel). SCSC Golden Jubilee Panel. SummerSim 2018, Bordeaux, France  
Invited?: Yes, Keynote?: No
16. (2018). Modeling large Crowds with Centroidal Particles and Cell-DEVS. 8th International Conference on Simulation and Modeling Methodologies, Technologies and applications. InfoNor, Iquique, Chile  
Invited?: Yes, Keynote?: Yes
17. (2018). Crowd Modeling and Simulation of Spatial Systems with Cell-DEVS. 8th International Conference on Simulation and Modeling Methodologies, Technologies and applications. SIMULTECH 2018, Porto, Portugal  
Invited?: Yes, Keynote?: Yes
18. (2018). Discrete-Event Modeling and Simulation Methodologies: Past, Present and Future. Ninth Workshop in Simulation., Barcelona, Spain  
Invited?: Yes, Keynote?: Yes
19. (2018). Lessons learned in PhD Research for Modeling and Simulation (Panel). ACM SIGSIM/PADS 2018 PhD Colloquium, Rome, Italy  
Invited?: Yes, Keynote?: No
20. (2018). Introduction to the DEVS Formalism (Tutorial). Winter Simulation Conference, Gothenburg, Sweden  
Invited?: No, Keynote?: No
21. (2018). Advanced Parallel and Distributed Simulation algorithms for DEVS. 13th International meeting on High Performance Computing for Computational Science, VECPAR 2018., Sao Pedro, SP, Brazil  
Invited?: Yes, Keynote?: Yes

22. (2018). Centrality of the User In Performance Assessment for Building Simulation (Panel). SimAUD 2018., Delft, Netherlands  
Invited?: Yes, Keynote?: No
23. (2017). Discrete-Event Modeling and Simulation for Development of Embedded and Real-Time Systems. 21st ACM/IEEE International Symposium on Distributed Simulation and Real Time Applications (DS-RT), Rome, Italy  
Invited?: Yes, Keynote?: Yes
24. (2017). Modeling and Simulation As a Service. (Seminar) University of Bordeaux, Bordeaux, France  
Invited?: Yes, Keynote?: No
25. (2017). DEVS Modelling and Simulation for Development of Embedded Systems. (Seminar) University of Calabria, Rende, Italy  
Invited?: Yes, Keynote?: No
26. (2017). Formal Discrete-Event Modeling and Simulation of Mobile Networks. 14th IEEE International Conference on Networking, Sensing and Control, Calabria, Italy  
Invited?: Yes, Keynote?: Yes
27. (2017). Cell-DEVS: contributions and challenges. Keynote presentation at the Memorial Workshop in honour of Norbert Giambiasi, Marseille, France  
Invited?: Yes, Keynote?: Yes
28. (2017). Simulation Everywhere. Seminar at University of Rome, La Sapienza, Rome, Italy  
Invited?: Yes, Keynote?: No
29. (2017). Introduction to Discrete Event Modeling and Simulation. Latin American Conference in Informatics, Córdoba, Argentina  
Invited?: Yes, Keynote?: Yes
30. (2017). Discrete-Event Modeling and Simulation: Past, Present and Future. (Seminar) University of Roma, Tor-Vergata., Rome, Italy  
Invited?: Yes, Keynote?: No
31. (2016). Discrete-Event Modeling and Simulation Methodologies: Past, Present and Future. Winter Simulation Conference. Ph. D. Colloquium., Washington, DC, United States  
Invited?: Yes, Keynote?: Yes
32. (2016). Recent Advances on Discrete-Event Modeling and Simulation for Development of Embedded and Real-Time Systems. Summer Simulation Multiconference, Montreal, Canada  
Invited?: Yes, Keynote?: Yes
33. (2016). Modeling and Simulating Emerging Behaviour in Spatial Systems with Cell-DEVS. International Symposium on INnovations in Intelligent SysTems and Applications, Sinaia, Romania  
Invited?: Yes, Keynote?: Yes
34. (2015). Introduction to Model and Simulation Interoperability with DEVS. JIAE2015 : 8èmes Journées de l'interopérabilité des applications d'entreprise, Bordeaux, France  
Invited?: Yes, Keynote?: Yes
35. (2015). Applying Modelling and Simulation for Development of Embedded Systems (seminar). Sakarya University, Sakarya, Turkey  
Invited?: Yes, Keynote?: No
36. (2015). DEVS Modelling and Simulation for Development of Embedded Systems (tutorial). Winter Simulation Conference, Huntington Beach, United States  
Invited?: Yes, Keynote?: No, Competitive?: Yes
37. (2015). Modeling and Simulation: the Advanced Real-Time Simulation Lab (seminar). Faculty of Sciences. Universidad de Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No

38. (2014). Applying Modelling and Simulation for Development of Embedded Systems. ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), Denver, United States  
Invited?: Yes, Keynote?: Yes
39. (2014). Computational Fluid Dynamic Solver based on Cellular Discrete-Event Simulation for use in Biological Systems. ACTIMS 2014 (Activity based Modeling and Simulation), Zurich, Switzerland  
Invited?: Yes, Keynote?: No
40. (2014). Cellular Modeling with Cell-DEVS: a Discrete-Event Cellular Automata formalism. ACRI 2014 (Cellular Automata for Research and Industry), Krakow, Poland  
Invited?: Yes, Keynote?: Yes
41. (2014). Discrete-Event Modeling and Simulation Methodologies: Applications to Wireless and Mobile Communications. VI International Congress of Computer and Telecommunications, COMTEL 2014, Lima, Peru  
Invited?: Yes, Keynote?: Yes
42. (2014). Discrete-Event Modeling and Simulation: Past, Present and Future. (Seminar) Seminar on Sciences and Technology of Information. Université de Quebec en Outaouais; Université de Québec à Chicoutimi, Gatineau, Canada  
Invited?: Yes, Keynote?: No
43. (2014). Modeling and Simulation of Biomedical Applications with the DEVS formalism. IEEE Ottawa Section: Engineering in Medicine and Biology Society Seminar, Ottawa, Canada  
Invited?: Yes, Keynote?: No
44. (2013). Everything you wanted to know about Modeling and Simulation... but were afraid to ask. Research Works meeting. Carleton University, Ottawa, Canada  
Invited?: Yes, Keynote?: Yes
45. (2013). Introduction to Discrete-Event Modeling and Simulation with DEVS. (Seminar) Seminar series. Universidad Torcuato Di Tella, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
46. (2013). Everything you wanted to know about Modeling and Simulation... but were afraid to ask. (Seminar) Faculty of Sciences. University of Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
47. (2013). Discrete-Event Modeling and Simulation Methodologies: Applications to Wireless and Mobile Communications. 9th International Conference on Wireless Communications, Networking and Mobile Computing (WICOM), Beijing, China  
Invited?: Yes, Keynote?: Yes
48. (2013). Applying Modelling and Simulation for Development of Embedded Systems. The 2nd IEEE Mediterranean Conference on Embedded Computing, Budva, Montenegro  
Invited?: Yes, Keynote?: Yes
49. (2013). A Land Use and Land Cover Model using the Cell-DEVS formalism. Royal Geographical Society Annual International Conference. Modelling for Policy session, London, United Kingdom  
Invited?: No, Keynote?: No
50. (2013). Simulation Everywhere. First ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS). Ph.D. Colloquium, Montreal, Canada  
Invited?: Yes, Keynote?: Yes
51. (2013). Discrete event modeling and simulation: present, past, future. XIX International Conference on Industrial Engineering and Operations Management, ICIEOM, Valladolid, Spain  
Invited?: Yes, Keynote?: Yes

52. (2013). Introduction to Modeling and Simulation of Spatial Systems with Cell-DEVS. Workshop on Big Data and Spatial Modeling, PFC, National Resources Canada, Victoria, Canada  
Invited?: Yes, Keynote?: Yes
53. (2013). An Introduction to the DEVS formalism. (Tutorial) Spring Simulation Conference, San Diego, United States  
Invited?: Yes, Keynote?: No
54. (2013). A Modelling and Simulation Based Methodology for Development of Embedded Systems. 3rd IEEE International Conference on Computer Science and Network Technology, Dalian, China  
Invited?: Yes, Keynote?: Yes
55. (2012). Applying a model-based methodology for the development of Real-Time Embedded systems. Argentinian Symposium on Software Engineering, ASSE 2012, La Plata, Argentina  
Invited?: Yes, Keynote?: Yes
56. (2012). Distributed simulation with DEVS and Web Services. (Seminar) IMS Lab. Université de Bordeaux I, Bordeaux, France  
Invited?: Yes, Keynote?: No
57. Taylor S., Fishwick P., Fujimoto R., Uhrmacher A., Page E. (2012). Grand Challenges for Modeling and Simulation. (Panel) Winter Simulation Conference, Berlin, Germany  
Invited?: Yes, Keynote?: No
58. (2012). Introduction to Modeling and Simulation of Spatial Systems with Cell-DEVS. (Seminar) Swiss Federal Institute for Forest, Snow and Landscape, Zurich, Switzerland  
Invited?: Yes, Keynote?: No
59. (2012). Simulation Everywhere. International Workshop on Modeling and Applied Simulation, WAMS 2012, Rome, Italy  
Invited?: Yes, Keynote?: Yes
60. (2012). Discrete event modeling and simulation: present, past, future. (Seminar) Computer Science Dept., Universidad de Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
61. (2012). Discrete event modeling and simulation: present, past, future (seminar). Computer Science Dept., Universidad de Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
62. (2012). The Cell-DEVS formalism. (Invited speaker) ACTIMS 2012 (Activity based Modeling and Simulation), Paris, France  
Invited?: Yes, Keynote?: No
63. (2012). Discrete-Event Modeling and Simulation with DEVS and Cell-DEVS. (Seminar) CoMe Seminar series. Polytechnic University of Catalonia (UPC), Barcelona, Spain  
Invited?: Yes, Keynote?: No
64. (2012). Applying Modelling and Simulation for Development and Testing of Embedded Systems. (Seminar) Florida International University, Miami, United States  
Invited?: Yes, Keynote?: No
65. (2012). Advanced Spatial Systems with Cellular Discrete-Event Modeling and Simulation. (Tutorial) Winter Simulation Conference, Berlin, Germany  
Invited?: Yes, Keynote?: No
66. (2012). A Cellular Modeling Environment For Behavior Analysis In GIS. Agent-Based Models and Geographical Systems. Association of American Geographers Annual Meeting, New York, United States  
Invited?: No, Keynote?: No

67. (2012). Discrete-Event Modeling and Simulation with DEVS and Cell-DEVS. (Seminar) Applied Mathematics Seminar series. Applied Mathematics Institute. University of Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
68. (2011). DEVS Standardization: Introduction and Current Status. SCS/ACM Symposium on Simulation for Architecture and Urban Design, SimAUD 2011, Boston, United States  
Invited?: Yes, Keynote?: No
69. Strassburger S, Riley G, Wainer G, Taylor S, Tropper C, Cai W. (2011). Future Trends in Distributed Simulation and Distributed Virtual Environments – Revisited. (Panel) IEEE/SCS/ACM Workshop On Principles of Advanced Discrete Simulation (PADS), Nice, France  
Invited?: Yes, Keynote?: No
70. (2011). Discrete event modeling and simulation: present, past, future. SimGrid meeting, Nice, France  
Invited?: Yes, Keynote?: Yes
71. (2010). Discrete event modeling and simulation: present, past, future. (Seminar) Universidad Complutense de Madrid, Madrid, Spain  
Invited?: Yes, Keynote?: No
72. (2010). Methodology for Embedded (Robotic) Software Development. Research meeting and School on Distributed Computing by Mobile Robots, Ottawa, Canada  
Invited?: Yes, Keynote?: No
73. (2010). Discrete event modeling and simulation: present, past, future. (Seminar) Universidad de Valladolid, Valladolid, Spain  
Invited?: Yes, Keynote?: No
74. (2010). Discrete event modeling and simulation: present, past, future. Modeling and Simulation Symposium 2010, Mérida, Venezuela, Bolivarian Republic of  
Invited?: Yes, Keynote?: Yes
75. (2009). An Introduction to the DEVS formalism. (Seminar) One-day seminar at Universidad Nacional de Estudios a Distancia (UNED), Madrid, Spain  
Invited?: Yes, Keynote?: No
76. Aschenbruck N, Cicconetti C, Henderson T, Sommer C, Wainer G. (2009). Fidelity of Modeling and Simulation experiments. (Panel) ICST Conference on Simulation Tools and Techniques, SIMUTools 2009, Rome, Italy  
Invited?: Yes, Keynote?: No
77. (2009). An Introduction to the DEVS formalism. (Tutorial) SCS Spring Simulation Conference, San Diego, United States  
Invited?: Yes, Keynote?: No
78. (2009). Discrete event modeling and simulation: present, past, future. VMASC Modeling, Simulation, and Gaming (MS&G) Student Capstone Conference, Norfolk, United States  
Invited?: Yes, Keynote?: Yes
79. (2009). Introduction to Parallel DEVS simulation. HPCLatam 2009, Latin-American conference on High-Performance Computing, Mar del Plata, Argentina  
Invited?: Yes, Keynote?: Yes
80. (2009). The DEVStone Benchmark: uniform methodology for Simulation Benchmarking. DEVS Symposium, SCS Spring Simulation Conference, San Diego, United States  
Invited?: Yes, Keynote?: Yes
81. Aubanel E, Haque W, Lee V, Wainer G, Zhang M. (2008). Large Scale Scientific Computing in Canada. (Panel) High-Performance Computer Simulation Symposium, SpringSim 2008, Ottawa, Canada  
Invited?: Yes, Keynote?: No

82. (2007). Modeling and simulation of complex cell spaces. AUTOMATA 2007. The Fields Institute for Research in Mathematical Sciences, Toronto, Canada  
Invited?: Yes, Keynote?: No
83. (2007). Advances in DEVS Modeling and Simulation Methodologies. European Conference on Modeling and Simulation, ECMS 07, Prague, Czech Republic  
Invited?: Yes, Keynote?: Yes
84. (2007). Current and Future Trends in DEVS. Summer Computer Simulation Conference, San Diego, United States
85. (2007). Using Modeling and Simulation for testing of Embedded Real-Time Systems (Tutorial). 18th International Conference on Modeling and Simulation, Montréal, Canada  
Invited?: No, Keynote?: No, Competitive?: Yes
86. (2007). On the use of DEVS modeling and simulation methodologies for building production systems (seminar). INSA Strasbourg, Strasbourg, France  
Invited?: Yes, Keynote?: No
87. (2007). Modeling Embedded systems with DEVS (seminar). Computer Science Dept., Universidad de Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
88. (2006). Modeling Discrete-Event systems with DEVS (seminar). Université Paul Cezanne, Marseille, France  
Invited?: Yes, Keynote?: No
89. (2006). On the Application of a Model-Driven technique for Development and Testing of Embedded Systems (Tutorial). Q&ATEST conference, Bilbao, Spain  
Invited?: Yes, Keynote?: No
90. (2006). Modeling and Simulation of Complex Cell Spaces with Cell-DEVS (tutorial). 17th International Conference on Modeling and Simulation, Montréal, Canada  
Invited?: Yes, Keynote?: No
91. (2005). Discrete-Event Modeling and Simulation Methodologies: Past, Present and Future. 5th International Conference on Modeling, Simulation and Optimization, Oranjestad, Aruba  
Invited?: Yes, Keynote?: Yes
92. (2005). Discrete event modeling and simulation: present, past, future (seminar). Université Paul Cezanne, Marseille, France  
Invited?: Yes, Keynote?: No
93. (2005). An Introduction to the DEVS formalism (Tutorial). SCS Spring Simulation Conference, San Diego, Invited?: Yes, Keynote?: No
94. (2004). Modeling and simulation of complex systems with Cell-DEVS (Tutorial). Winter Simulation Conference, Washington, United States  
Invited?: No, Keynote?: No, Competitive?: Yes
95. (2004). Component-based modeling of Real-Time Systems. Seminar 04041, Component-based Modeling and Simulation. Schloss Dagstuhl., Saarbrücken, Germany  
Invited?: Yes, Keynote?: No
96. (2004). Using DEVS for modeling and simulation of computer networks (Tutorial). SPECTS, Symposium on Performance on Computer and Telecommunication Systems., San Jose, Invited?: No, Keynote?: No
97. (2004). Component-based development of real-time systems using the DEVS formalism (seminar). Hasso-Plattner Institute, Potsdam University, Potsdam, Germany  
Invited?: Yes, Keynote?: No

98. (2003). Priorities for Modeling and Simulation Standards (panel). SCS Summer Computer Simulation Conference, Montréal,  
Invited?: Yes, Keynote?: No
99. (2003). Discrete event modeling using the DEVS formalism (seminar). École Polytechnique de Marseille, Marseille, France  
Invited?: Yes, Keynote?: No
100. (2003). Modeling and simulation of ultra-large networks using the DEVS formalism. NSF Workshop on Modeling and Simulation of Ultra-Large Networks: Challenges and new research directions. Stevens Institute of Technology, Hoboken, United States  
Invited?: Yes, Keynote?: No
101. (2003). Modeling and simulation methodologies: past, present and future (seminar). Defence R&D Canada, Ottawa, Canada  
Invited?: Yes, Keynote?: No
102. (2003). Modeling and Simulation of complex cell spaces (tutorial). ISC'2003, EuroSim Industrial Simulation Conference, Valencia, Spain  
Invited?: No, Keynote?: No
103. (2003). Modeling computer architectures in DEVS (seminar). Universidad Politécnic de Catalunya, Barcelona, Spain  
Invited?: Yes, Keynote?: No
104. (2003). Discrete event cellular modeling using the DEVS formalism (seminar). University of Pisa, Pisa, Italy  
Invited?: Yes, Keynote?: No
105. (2003). Modeling and simulation of complex cell spaces. Annual Workshop of the CNRS LSIS (Laboratoire de Sciences de l'Information et de Systèmes de Marseille), Giens, France  
Invited?: Yes, Keynote?: Yes
106. (2003). Modeling and simulation of Real-Time systems using the DEVS formalism. NSF Workshop on Modeling and Simulation for Design of Large Software-Intensive Systems (DLS03), Tucson,  
Invited?: Yes, Keynote?: No
107. (2002). Parallel and Distributed Simulation Techniques (seminar). École Polytechnique de Marseille, Marseille, France  
Invited?: Yes, Keynote?: No
108. (2002). Modeling and Simulation of complex systems using Cell-DEVS (seminar). California Institute of Technology (Caltech), Pasadena, United States  
Invited?: Yes, Keynote?: No
109. (2001). The DEVS modeling formalism (seminar). Spanish Network on techniques for digital Simulation and application to industrial processes, Valladolid, Spain  
Invited?: Yes, Keynote?: Yes
110. (2001). Modeling and simulation of complex systems using the DEVS formalism (tutorial). Modeling and Simulation 2001, Pittsburgh, United States  
Invited?: No, Keynote?: No
111. (2000). Advanced topics in discrete events simulation (short course - 15 hours). 7th Summer School on Informatics, Rio Cuarto, Argentina  
Invited?: Yes, Keynote?: No, Competitive?: Yes
112. (2000). Discrete Event simulation using the Cell-DEVS formalism (seminar). University of California, Irvine, United States  
Invited?: Yes, Keynote?: No

113. (1999). Discrete Event modeling and simulation (short course - 24 hours). Universidad Tecnológica Nacional, Facultad Regional de Santa Fe, Santa Fe, Argentina  
Invited?: Yes, Keynote?: No
114. (1999). Introduction to systems modeling and simulation (short course - 24 hours). Advanced Studies Program of the CRICYT (National Research Council), Mendoza, Argentina  
Invited?: Yes, Keynote?: No, Competitive?: Yes
115. (1999). Introduction to discrete events modeling and simulation (tutorial). Argentine Conference of Computer Sciences, Tandil, Argentina  
Invited?: Yes, Keynote?: No
116. (1998). Modeling and simulation using the DEVS and Cell-DEVS formalisms (seminar). Argentine Society on Automatic Control, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No
117. (1996). Introduction to the development of Real-Time systems (Tutorial). IV Forum on Informatics, Rosario, Argentina  
Invited?: Yes, Keynote?: No
118. (1994). Development techniques for Real-Time systems (seminar). VI School on Informatics. Universidad de Buenos Aires, Buenos Aires, Argentina  
Invited?: Yes, Keynote?: No, Competitive?: Yes
119. (1994). Real-Time Software development (short course - 24 hours). Advanced Studies Program of the CRICYT (National Research Council), Mendoza, Argentina  
Invited?: Yes, Keynote?: No, Competitive?: Yes

## Broadcast Interviews

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|----------------------------|---|
| 2017/07/01 -<br>2027/11/25 | Online interview "On Crowd Modelling", Sim4All; Old Dominion University-VMASC.<br>Youtube, YouTube<br><a href="https://www.youtube.com/watch?v=AzI1Ofw_UBc">https://www.youtube.com/watch?v=AzI1Ofw_UBc</a> |
| 2018/05/01 -<br>2026/11/28 | Online interview about the history of the SIMAUD conference, Autodesk Research Website, YouTube<br><a href="https://www.youtube.com/watch?v=MN1zNrHw-Sc">https://www.youtube.com/watch?v=MN1zNrHw-Sc</a>    |
| 2011/11/14 -<br>2011/11/14 | Research in distributed simulation, CIPS Podcast, CIPS, IT Manager Connection, blogs.technet.com and distributed over 30 channels internationally   |
| 2004/06/04 -<br>2004/06/04 | Forest wildfires modeling using Cell-DEVS, Noon @ the NewRO, CHRO TV Ottawa.  |

## Text Interviews

- |            |  |
|------------|--|
| 2019/05/08 | Carleton Researchers Receive NSERC Strategic Partnerships Grant to improve Building Performance and Sustainability, Carleton Newsroom, Canadian Architect, Education News Canada, Public Now, Building Magazine and other online sources |
| 2019/04/11 | Here's How We Built a Vibrant Research Community Around Simulation for Architecture, Autodesk Research News site   |
| 2018/07/10 | Fighting Forest Fires with Modeling and Simulation, Mtt Gergyek, Carleton Newsroom Description / Contribution Value: Introduction to the Advanced RT Simulation lab and research on simulation   |



- 2018/04/17 News clipping: "Prof. Wainer recognized by Association for Computing Machinery", Carleton Newsroom.  
Description / Contribution Value: Online news item about ACM Service Award and WSC Board election
- 2017/12/01 News clipping about WSC 50, ORMS-Today – Informs; Analytics Magazine; necada.org and other online sources
- 2016/07/01 News clipping about D. Niyonkuru's work at ARSLab "Helping more young women to choose engineering and computer science", innovation.ca, The Globe and Mail, and other online sources  
<https://www.youtube.com/watch?v=IYtQmckEfZo>
- 2016/06/01 News clipping about SCS Fellowship, SCS newsletter, openpr.com, owler.com, prurgent.org and other online sources
- 2013/07/01 Prof. Wainer's keynote at ICIEOM'13, Valladolid, Spain, PressPeople, masSalamanca, noticiasCastillaLeon and other online sources
- 2012/08/12 "The Golden Generation of Science is passionate about global project". Interviewed about research on modeling and simulation, Tiempo Argentino (newspaper); also reproduced by Argentinian Ministry of Foreign Affairs Press office, Entre Ríos Digital, universatil, cientificosargentinos, and numerous other online sources (in Spanish)
- 2012/05/10 Advanced Real-Time Lab and Prof. Wainer's participation in the All Things Digital event, Exchange Magazine, Ottawa
- 2011/04/11 Prof. Wainer wins Outstanding Professional Contribution Award, In The Ottawa Citizen (online), Exchange Magazine (technology news), and various IT portals (Canadian-universities.net, wired web press Canada, targetednews.com)
- 2010/10/19 Argentinian Researcher Recognized for his work in Modeling and Simulation (in Spanish), Canal AR (technology news, Argentina), Argentina.ar (main public portal of Argentina), titulares24.com, pais24.com and other IT portals (Keegy.com, tecnoaldia.com, argentinapais.com, etc.) (in Spanish)
- 2006/09/10 News clipping about tutorial in QA&Test 2006, Estrategia Empresarial and Qualitas magazines (Spain), Embedded Systems Europe and other news sites (Cio Spain).
- 2006/04/05 Architectural Reconstruction project, Yvelines and other news sites (Profetic, BE Canada).
- 2006/03/03 Interview about Carleton-University of Arizona visit, Inside Tucson Business.
- 2005/06/19 Interview about Real-Time modeling and simulation activities, and Carleton University Research Achievement Award, Pauline Tam, The Ottawa Citizen.
- 2005/05/05 Carleton University Research Achievement Awards, Sillicon Valley North.
- 2004/07/15 Modeling forest wildfires using Cell-DEVS, ACM Technews and other news sites (Newswise, Innovations Report, Future Brief Alert, Media Release Canada, IcivilEngineer, etc.).
- 2003/07/01 Research on Real-Time Modeling and Simulation, Modeling and Simulation Magazine. Society for Modeling and Simulation International.
- 2003/06/02 Parallel Cell-DEVS modeling and simulation, La Nación (Buenos Aires, Argentina). Informatics section. Reproduced in different newsletters (Axxon, SicaNews, InterlinkNews, Ecofield).
- 2003/04/17 New project on real-time modeling and simulation., The Ottawa Citizen. Tech Weekly
- 2001/03/01 Brain drain in IT researchers and professionals in Argentina., Information Technology Magazine (Argentina)

## Publications

### Journal Articles

1. B. Kazi\*, G. Wainer. (2020). Coordinated Multi-Cell Cooperation with User Centric Dynamic Coordination Station. *Computer Networks*. 166(15): 1-14.  
Published, Elsevier,  
Refereed?: Yes, Open Access?: No
2. \*M. Rodrigues da Cunha, \*V. Margarida Gomes, F. dos Santos, G. Wainer, W. Pacheco Calixto. (2019). Optimized techniques for driving and control of switched reluctance motor to improve efficiency New Method and Apparatus for 3-D Mapping of Soil Electrical Conductivity. *Control Engineering Practice*. 90(70): 1-19.  
Published, Elsevier,  
Refereed?: Yes, Open Access?: No
3. V. Gomes\*, J. Paiva\*, M. Reis\*, G. Wainer, W. Calixto. (2019). Mechanism for Measuring System Complexity Applying Sensitivity Analysis. *Complexity*. 2019(ID 1303241): 12 pages.  
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4. \*Ala'a Al-Habashna, G. Wainer. (2019). QoE awareness in Progressive Caching and DASH-based D2D Video Streaming in Cellular Networks. *Wireless Networks*. : 1-23.  
<http://dx.doi.org/https://doi.org/10.1007/s11276-019-02055-x>  
Published, Springer Nature,  
Refereed?: Yes, Open Access?: No
5. K Al-Zoubi, G Wainer. (2019). Fog and Cloud Collaboration to Perform Virtual Simulation Experiments. *Simulation, Practice and Experience*. <https://doi.org/10.1016/j.simpat.2019.102032>. : 25 pages.  
In Press,  
Refereed?: Yes
6. J. Barrantes, \*N. Pino Romero, G. Wainer. (2018). Computational Modeling Applied to Finance Agents using Cell-DEVS (in Spanish). *Pensamiento Crítico*. 23(1): 121-152.  
<http://dx.doi.org/10.15381/pc.v23i1.15102>  
Published, UNMSM, Peru  
Refereed?: Yes, Open Access?: Yes
7. A Inostrosa-Psijas\*, V Gil-Costa, M Marin, G Wainer. (2018). Semi-Asynchronous Approximate Parallel DEVS Simulation of Web Search Engines. *Concurrency And Computation: Practice And Experience*. 30(7)  
<http://dx.doi.org/10.1002/cpe.4149>  
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<http://dx.doi.org/10.17268/sel.mat.2018.01.06>  
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9. B. Kazi\*, G. Wainer. (2018). Integrated Cellular Framework for Modeling Ecosystems: Theory and Applications. *SIMULATION: Transactions of the Society for Modeling and Simulation International*. 94(3): 213-233.  
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10. A. Al-Habashna\*, G. Wainer, G. Boudreau, R. Casselman. (2018). Improving Video Transmission in Cellular Networks with Cached and Segmented Video Download Algorithms. *Mobile Networks and Applications*. 23(3): 543-559.  
In Press, Elsevier,  
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11. C. Ruiz-Martín\*, A. López Paredes, G. Wainer. (2018). What we know and do not know about organizational resilience. *International Journal of Production Management and Engineering*. 6(1): 11-28.  
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15. B Kazi\*, G. Wainer. (2017). Integrated Cellular Framework for Modeling Ecosystems: Theory and Applications. *SIMULATION: Transactions of the Society for Modeling and Simulation International*.  
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16. \*N. Pino Romero, R. Lopez, G. Wainer. (2017). Computational Modeling of dynamic transmission of varicella using Cell-DEVS (in Spanish). *Pesquimat*. 20(2): 53-64.  
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17. G. Wainer. (2017). Advanced Cell-DEVS modeling applications: a legacy of Norbert Giambiasi. *SIMULATION: Transactions of the Society for Modeling and Simulation International*.  
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18. D. Vicino\*, G. Wainer, O. Dalle. (2016). Using Finite Forkable DEVS for Decision-Making Based on Time Measured with Uncertainty (journal version of conference paper). *EAI Transactions on Industrial Networks and Intelligent Systems*. 16(9): 3.  
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19. E. Hosang\*, G. Wainer. (2016). An Architecture to Facilitate Interoperability of DEVS and C-BML Simulation Models. *Journal of Defense Modeling and Simulation (JDMS)*. 13(1): 1-23.  
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20. G Wainer. (2016). Real-Time Simulation of DEVS Models in CD++. International Journal of Process Modeling and Simulation. Inderscience.11(2): 138-153.  
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21. Niyonkuru D\*, Wainer G. (2016). Discrete-Event Modeling and Simulation for Embedded Systems. IEEE/ IAP Computing in Science and Engineering (CISE). 17(5): 52-63.  
Published,  
Refereed?: Yes
22. A. Al-Habashna\*, G. Wainer. (2016). Modeling pedestrian behavior with Cell-DEVS: theory and applications. SIMULATION: Transactions of the Society for Modeling and Simulation International. 92(2): 117-139.  
Published,  
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23. S. Wang\*, G. Wainer. (2016). Modeling and Simulation as a Service Architecture for Deploying Resources in the Cloud. International Journal of Modeling, Simulation, and Scientific Computing.7(1): 1-39.  
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26. G Sirakoulis, J Was, G Wainer. (2016). Discrete Modeling and Simulation. AIP/IEEE Computing in Science and Engineering. 18(8): 8-10.  
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- [29.](#) G Wainer, M D'Abreu\*. (2015). Using a Discrete-Event System Specifications DEVS for designing a Modelica compiler. Advances in Engineering Software. 79(1): 111--126.  
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- [33.](#) G. Wainer, M. D'Abreu\*. (2015). On the Design of A Continuous Simulation Tool Based On A Discrete-Event Formalism. *Advances in Engineering Software (Elsevier)*. 79(1): 111-126.  
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73. R Madhoun\*, G Wainer. (2005). Creating Spatially-Shaped Defense Models Using DEVS and Cell-DEVS. Journal of Defense Modeling and Simulation. SAGE. 2(3): 121-143. Published,
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81. G Wainer. (2000). Improved Cellular Models with Parallel Cell-DEVS. Transactions of the Society for Computer Simulation International. 17(2): 73-88. ,
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## Journal Issues

1. G Sirakoulis, J Was, G Wainer. (2016). Discrete Modeling and Simulation. AIP/IEEE Computing in Science and Engineering. Published,  
Refereed?: Yes  
Editors: G Sirakoulis, J Was, G Wainer



2. Wainer G. (2015). Principles of Advanced Discrete Simulation. ACM TOMACS, Transactions on Modeling and Computer Simulation.  
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3. Wainer G. (2010). Recent Advances in Unified Modeling and Simulation Approaches. Simulation: Transactions of the Society for Modeling and Simulation International. 1-3(86): 128.  
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4. Wainer G, Dalle O. (2010). Software Tools, Techniques and Architectures for Computer Simulation. Simulation: Transactions of the Society for Modeling and Simulation International. 5-6(86): 122.  
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Refereed?: Yes, Open Access?: No  
Editors: Wainer G, Dalle O
5. Wainer G, Dalle O, Heath J. (2008). Development Tools and Techniques for Mobile Telecommunications. Mobile Networks and Applications, Springer-Verlag. 15(6): 91.  
Published,  
Refereed?: Yes, Open Access?: No  
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## Books

1. M. Mujica Mota, I. Flores, G. Wainer (Eds.). (2019). Applied Simulation and Optimization. Vol.3: Innovative Applications In Logistics, Industrial, and Aeronautical Practice.  
Co-Editor  
Accepted, Springer,  
Refereed?: Yes
2. Wainer G, Mosterman P. (2011). Discrete-Event Modeling and Simulation: Theory and Applications. : 534.  
Published, CRC Press,  
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3. Wainer G. (2009). Discrete-Event Modeling and Simulation: a Practitioner's Approach. : 520.  
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## Book Chapters

1. G. Wainer, A. Al-Habashna. (2019). An introduction to pedestrian modeling using spatial discrete-event modeling and simulation. John Sokolowski, Umut Durak Nav Mustafee, A. Tolk. Summer of Simulation – 50 Years of Seminal Computing Research. : 195-218.  
Accepted, Springer,  
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2. G.. Wainer. (2019). Converting high level models into DEVS modeling and simulation applications. John Sokolowski, Umut Durak Nav Mustafee, A. Tolk. Summer of Simulation – 50 Years of Seminal Computing Research. : 117-156.  
First Listed Author  
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3. C. Ruiz-Martin\*, J. Pérez Rios, G. Wainer, J. Pajares, C. Hernández, A. Lopez-Paredes. (2016). The Application of the Viable System Model to Enhance Organizational Resilience. Advances in Management Engineering. Lecture Notes in Management and Industrial Engineering.: 20-40.  
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5. Wang S\*, Wainer G. (2014). Web-based Simulation using Cell-DEVS modeling and GIS Visualization. Gianni D, D'Ambrogio A. Modeling and Simulation-based Systems Engineering Handbook. : 33-67.  
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Published, CRC Press. Taylor and Francis,  
Refereed?: Yes
14. G. Wainer, E. Glinsky\*, P. MacSween\*. (2005). A Model-Driven Technique for Development of Embedded Systems Based on the DEVS Formalism. S. Beydeda and V. Gruhn. Model-driven Software Development - Volume II of Research and Practice in Software Engineering.  
Published, Springer-Verlag,  
Refereed?: Yes
15. G. Wainer, N. Giambiasi. (2001). Timed Cell-DEVS: modeling and simulation of cell spaces. H. Sarjoughian, F. Cellier. Discrete Event Modeling & Simulation: Enabling Future Technologies.  
Published, Springer-Verlag,  
Refereed?: Yes

### Online Resources

1. Co-Author. Gabriel Wainer Cristina Ruiz-Martín\*. Surviving nuclear disasters depends on stronger communications networks. (2019).  
Description / Contribution Value: The Conversation Canada (hundreds of online sites) <https://theconversation.com/surviving-nuclear-disasters-depends-on-stronger-communications-networks-123234>
2. \*O. Hesham, G. Wainer. CPDENSE: A Crowd Simulator For Dense Scenarios. (2018).  
Description / Contribution Value: Software Demo at SpringSim Demo Workshop
3. \*C. Ruiz-Martin, G. Wainer, A. Lopez-Paredes. Architecture To Simulate Diffusion Processes. (2018).  
Description / Contribution Value: Simulation software evaluated as functional, reusable and available according to ACM initiative on Reusability (<https://www.acm.org/publications/policies/artifact-review-badging>)
4. \*M. Etemad, \*S. Wang, G. Wainer. Cell-DEVS Mobile Simulation. (2015).  
Description / Contribution Value: Mobile App competition demo. Spring SimulationConference

### Conference Publications

1. \*C. Ruiz-Martin, G. Wainer. Studying the resilience of communications in organizations using formal modelling and Simulation. Ninth Workshop on Simulation, Barcelona, Spain,  
Conference Date: 2018/6  
Poster  
Refereed?: Yes, Invited?: No
2. G. Wainer. (2019). Applying Modelling and Simulation for Development of Embedded Systems. SummerSim 2019, Berlin, Germany (12 pages). ACM/IEEE/SCS,  
Paper  
Published  
Refereed?: Yes, Invited?: No

3. G. Wainer. (2019). An Introduction to Cellular Automata Models with Cell-DEVS. Winter Simulation Conference, National Harbor, MD, United States (15 pages). INFORMS/ACM/IEEE/SCS, Conference Date: 2019/12  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
4. D. Vicino\*, G. Trabes\*, G. Wainer. (2019). New Datatypes to Represent Time in Discrete-event Simulation. Winter Simulation Conference, National Harbor, MD, United States (12 pages). INFORMS/ACM/IEEE/SCS, Conference Date: 2019/12  
Paper  
Published  
Refereed?: Yes, Invited?: No
5. D. Vicino\*, L. Belolli\*, C. Ruiz-Martin\*, G. Wainer. (2019). Building DEVS Models with the Cadmium Tool. Proceedings of Winter Simulation Conference, National Harbor, MD, United States (15 pages). INFORMS/ACM/IEEE/SCS, Conference Date: 2019/12  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
6. B. St-Aubin\*, E. Yammine\*, M. Nayef\*, G. Wainer. (2019). Analytics And Visualization Of Spatial Models As A Service. SummerSim 2019, Berlin, Germany. ACM/IEEE/SCS, Conference Date: 2019/7  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
7. G. Trabes\*, I. Oyelowo\*, M. Dan'gana\*, G. Wainer. (2019). Cellular Discrete-Event Models For Social Systems. SummerSim 2019, Berlin, Germany (12 pages). ACM/IEEE/SCS, Conference Date: 2019/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
8. A. Davoust\*, P. Gavigan\*, C. Ruiz-Martin\*, G. Trabes\*, B. Esfandiari, G. Wainer, J. James. (2019). An Architecture for Integrating BDI Agents with a Simulation Environment. EMAS-2019 (workshop of AAMAS'19), Montréal, Canada, Conference Date: 2019/5  
Paper  
Published  
Refereed?: Yes, Invited?: No
9. A. Al-Habashna\*, C. Ruiz-Martín\*, G. Wainer. (2019). Analyzing The Impact Of Quantum Size On The Accuracy And Performance Of Cell-DEVS Fire Models. Symposium on Theory of Modeling and Simulation, Tucson, AZ, United States (12 pages). ACM/IEEE/SCS, Conference Date: 2019/4  
Paper  
Published  
Refereed?: Yes, Invited?: No

10. B. St-Aubin\*, G. Wainer. (2019). A Cell-DEVS Model For Logistic Urban Growth. Annual Simulation Symposium, Tucson, AZ, United States. ACM/IEEE/SCS, Conference Date: 2019/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
11. S. Janapalli\*, O. Hesham\*, G. Wainer. (2019). Heterogeneous Crowd Simulation. Annual Simulation Symposium, Tucson, AZ, United States. ACM/IEEE/SCS, Conference Date: 2019/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
12. A. Al-Habashna\*, L. Belolli\*, C. Ruiz-Martín\*, G. Wainer. (2019). Control of a Quadcopter Application With DEVS. Symposium on Theory of Modeling and Simulation, Tucson, AZ, United States. ACM/IEEE/SCS, Conference Date: 2019/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
13. K. Bjornson\*, B. Earle\*, J. B. Ukeme\*, G. Wainer. (2019). Design And Implementation Of A Building Control System In Embedded-DEVS. Spring Simulation Conference, Tucson, AZ, United States. ACM/IEEE/SCS, Conference Date: 2019/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
14. G. Wainer, \*C. Ruiz, R. Castro. (2018). Building Partial Differential Equations Models Using Cell-DEVS. Winter Simulation Conference, Gothenburg, Sweden, Conference Date: 2018/12  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
15. G. Wainer, R. Goldstein, A. Khan. (2018). Introduction to the DEVS Formalism. Winter Simulation Conference, Gothenburg, Sweden, Conference Date: 2018/12  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
16. \*B. St-Aubin, \*O. Hesham, G. Wainer. (2018). A Cell-DEVS Visualization and Analysis Platform. Computer Simulation Conference, Bordeaux, France, Conference Date: 2018/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
17. \*A. Behl, \*C. Ruiz-Martín, G. Wainer. (2018). Cell-DEVS Models Of Social Influence For Human Behavior. Summer Computer Simulation Conference, Bordeaux, France, Conference Date: 2018/7  
Paper  
Published  
Refereed?: Yes, Invited?: No

18. \*J. B. Ukeme, \*N. Echegini, G. Wainer. (2018). Modeling Oil Spill In Coastal Waters Using Cell-DEVS. Summer Computer Simulation Conference, Bordeaux, France, Conference Date: 2018/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
19. \*A. Al-Habashna, G. Wainer. (2018). DASH-based Device-to-Device Video Streaming for Cellular Networks with High User Density. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Bordeaux, France, Conference Date: 2018/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
20. \*V. Margarida Gomes, \*M. Reis, G. Wainer, \*W. Calixto. (2018). Relationship Between Risk and System Complexity from a Connection Based Metric Perspective. IEEE 18th International Conference on Environment and Electrical Engineering, Palermo, Italy, Conference Date: 2018/6  
Paper  
Published  
Refereed?: Yes, Invited?: No
21. O. Hesham\*, Princy\*, W. Aburime\*, Z. Rabeh\*, S. Bhushan\*, G. Wainer. (2018). Observed Behaviours in Simulated Close-range Pedestrian Dynamics. Symposium on Simulation in Architecture and Urban Design (SimAUD'18), Delft, Netherlands, Conference Date: 2018/5  
Paper  
Published  
Refereed?: Yes, Invited?: No
22. C. Ruiz-Martín, G. Wainer, A. López-Paredes. (2018). Formal Abstract Modeling of Dynamic Multiplex Networks. ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), Rome, Italy, Conference Date: 2018/5  
Paper  
Published  
Refereed?: Yes, Invited?: No
23. \*B. Kazi, G. Wainer. (2018). Handover oscillation reduction in ultra-dense heterogeneous cellular networks using enhanced handover approach. Springsim, Baltimore, United States. SCS/ACM, Conference Date: 2018/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
24. J. Boi-Ukeme\*, I. Oyelowo\*, G. Wainer, N. Echegini\*, S. Zlotnik. (2018). Cell-DEVS Modeling and Simulation of artificial hydraulic fracturing of rocks in boreholes. Springsim 2018 (Symposium on Theory of Modeling and Simulation - TMS'18), Baltimore, United States, Conference Date: 2018/4  
Paper  
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Refereed?: Yes, Invited?: No

25. I. Oyelowo\*, B. Artacho\*, G. Wainer, S. O'Young. (2018). Using Cell-DEVS For Prototyping Unmanned Aircraft System Traffic Simulation. Springsim 2018 (Symposium on Theory of Modeling and Simulation - TMS'18), Baltimore, United States, Conference Date: 2018/4  
Paper  
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Refereed?: Yes, Invited?: No
26. A. Al-Habashna, S. Fernandes, G. Wainer. (2018). Analyzing the effect of LTE-A Transmission Parameters on Video StreamingQuality of Experience. SpringSim, Baltimore, United States. SCS/ACM, Conference Date: 2018/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
27. B. Kazi\*, G. Wainer. (2017). Handover Enhancement for LTE and Beyond Heterogeneous Cellular Networks. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Seattle, WA, United States. IEEE,  
Paper  
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Refereed?: Yes, Invited?: No
28. C. Ruiz\*, G. Wainer, A. Lopez-Paredes. (2017). An Architecture To Simulate Diffusion Processes In Multiplex Dynamic Networks. Winter Simulation Conference., Nevada, United States, Conference Date: 2017/12  
Abstract
29. G. Wainer, S. Stewart\*. (2017). A Cell-DEVS Model For Fracture Propagation In Rock. Winter Simulation Conference, Las Vegas, NV, United States, Conference Date: 2017/12  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
30. A. Magalhães\*, G. Wainer, V. Gomes\*, W. Calixto. (2017). Sensitivity analysis ofthe synchronous generation repowering system in parallel with inductiongenerator. ChileCon 2017, Pucón, Chile. IEEE, Conference Date: 2017/11  
Paper  
Published  
Refereed?: Yes, Invited?: No
31. M. Reis\*, W. Calixto, A. Magalhaes\*, F. Gomes and G. Wainer. (2017). Nolinear Simulation Methodology for Switched Reluctance Machine Using Induction Profile Found By Parametric Regression. IEEE Chilecon, Pucón, Chile. IEEE, Conference Date: 2017/11  
Paper  
Published  
Refereed?: Yes, Invited?: No
32. V. Gomes\*, C. Abrenhosa\*, G. Wainer and W. Calixto. (2017). Analytical method for calculating the sensitivity index of system parameters. IEEE Chilecon, Pucón, Chile. IEEE, Conference Date: 2017/11  
Paper  
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Refereed?: Yes, Invited?: No

33. A. Al-Habashna\*, G. Wainer. (2017). Improving Video Streaming Over Cellular Networks with DASH-based Device-to-Device Streaming. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Seattle, WA, United States. IEEE, Conference Date: 2017/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
34. G. Wainer, M. Etemad\*, B. Kazi\*. (2017). Modeling Coordinated Multipoint with a Dynamic Coordination Station in LTE-A Mobile Networks. 14th IEEE International Conference on Networking, Sensing and Control. Calabria, Italy, Calabria, Italy. IEEE, Conference Date: 2017/5  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
35. B. Kazi\*, G. Wainer. (2017). Formal Modeling and Simulation To Analyze The DynamicsOf Malware Propagation In Networks Using Cell-DEVS. SpringSim 2017 (CNS'17), Virginia Beach, VA, United States, Conference Date: 2017/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
36. D. Vicino\*, O. Dalle, G. Wainer. (2017). An Abstract Discrete-Event Simulator considering input with Uncertainty. 2017 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS'17, Virginia Beach, VA, United States, Conference Date: 2017/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
37. A. Al-Habashna\*, G. Wainer. (2017). DEVS-based Modeling of Cached and Segmented VideoDownload Algorithms in LTE-A Cellular Networks. SpringSim 2017 (CNS'17), Virginia Beach, VA, United States, Conference Date: 2017/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
38. B. Kazi\*, G. Wainer, V. Guimaraes da Silva\*. (2017). Modeling and Simulation of User Mobility and Handoverin LTE-A Mobile Networks Using DEVS. SpringSim 2017 (CNS'17), Virginia Beach, VA, United States, Conference Date: 2017/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
39. M. Tavanpour\*, J. Mikhail\*, G. Wainer, G. Boudreau. (2017). The Case For DEVS In Networking M&S: Upload User Collaboration In Mobile Networks Using Coordinated Multipoint. 2017 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS'17, Virginia Beach, VA, United States, Conference Date: 2017/4  
Paper  
Published  
Refereed?: Yes, Invited?: No



40. O. Hesham\*, G. Wainer. (2017). Context-sensitive Personal Spaces for Dense Crowd Flow. SimAUD 2017, Toronto, ON, Canada,  
Conference Date: 2017/3  
Paper  
Published  
Refereed?: Yes, Invited?: No
41. C. Ruiz-Martin\*, G. Wainer, Y. Bouanan\*, G. Zacharewicz, A. Lopez Paredes. (2016). A Hybrid Approach to Study Communication in Emergency Plans. Winter Simulation Conference, Washington, DC, United States,  
Conference Date: 2016/12  
Paper  
In Press  
Refereed?: Yes, Invited?: Yes
42. G. Wainer, C. Ruiz-Martin\*, A. Lopez Paredes. (2016). Cellular Models for Emerging Traffic Behavior. CAMUSS 2016, Quebec City, QC, Canada,  
Conference Date: 2016/9  
Paper  
In Press  
Refereed?: Yes, Invited?: No
43. A. Al-Habashna, G. Wainer, G. Boudreau, R. Casselman. (2016). Distributed Cached and Segmented Video Download for Video Transmission in Cellular Networks. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Montréal, QC, Canada,  
Conference Date: 2016/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
44. A. Al-Habashna\*, S. Fernandes, G. Wainer. (2016). DASH-based Peer-to-Peer Video Streaming in Cellular Networks. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Montréal, QC, Canada,  
Conference Date: 2016/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
45. A. Inostrosa-Psijas\*, G. Wainer, V. Gil-Costa, M. Marín. (2016). Formal Verification of DEVS Simulation: Web Search Engine Model Case Study. Summer Computer Simulation Conference, Montréal, QC, Canada,  
Conference Date: 2016/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
46. B. Kazi\*, M. Etemad\*, G. Wainer, G. Boudreau. (2016). Using Elected Coordination Stations for CSI Feedback on CoMP Downlink Transmissions. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Montréal, QC, Canada,  
Conference Date: 2016/7  
Paper  
Published  
Refereed?: Yes, Invited?: No

47. B. Kazi\*, M. Etemad\*, G. Wainer, G. Boudreau, R. Casselman. (2016). Signaling Overhead and Feedback Delay Reduction in Heterogeneous Multicell Cooperative Networks. International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Montréal, QC, Canada, Conference Date: 2016/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
48. C. Ruiz-Martin\*, G. Wainer; JM Perez; J. Pajares; C. Hernandez; A. Lopez. (2016). Organizational Resilience in Practice: the Viable System Model. The International Joint Conference - CIO-ICIEOM-IISE-AIM (IJC2016)., San Sebastian, Spain, Conference Date: 2016/6  
Abstract  
Published  
Refereed?: Yes, Invited?: No
49. M. Van Schyndel\*, O. Hesham\*, G. Wainer, B. Malleck. (2016). Crowd Modeling in the Sun Life Building. Symposium on Simulation in Architecture and Urban Design (SimAUD 2016), London, United Kingdom, Conference Date: 2016/5  
Paper  
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Refereed?: Yes, Invited?: No
50. A. Al-Habashna, G. Wainer, G. Boudreau, R. Casselman. (2016). Simulating Cached and Segmented Video Download (CSVD) for Wireless Video Transmission. Annual Simulation Symposium, Pasadena, CA, United States, Conference Date: 2016/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
51. H. Saadawi\*, G. Wainer, G. Pliego. (2016). DEVS Execution Acceleration with Machine Learning. 2016 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, Pasadena, CA, United States, Conference Date: 2016/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
52. L. Belloli\*, G. Wainer, R. Najmanovich. (2016). Parsing and Model Generation for Biological Processes. 2016 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, Pasadena, CA, United States, Conference Date: 2016/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
53. B. A. de Mello\*, G. Wainer. (2016). Scheduling Predictability In I-DEVS By Schedulability Analysis. 2016 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, Pasadena, CA, United States, Conference Date: 2016/4  
Paper  
Published  
Refereed?: Yes, Invited?: No

54. D. Vicino\*, O. Dalle, G. Wainer. (2016). An Advanced Data Typewith Irrational Numbers to Implement Time in DEVS Simulator. 2016 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, Pasadena, CA, United States,  
Conference Date: 2016/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
55. D. Niyonkuru\*, G. Wainer. (2016). A Kernel for Embeddedsystems development and simulation using the Boost Library. 2016 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, Pasadena, CA, United States,  
Conference Date: 2016/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
56. S. Wang\*, G. Wainer. (2015). A Mashup Architecturewith Modeling and Simulation as a Service. 16th International Conference Web Information System Engineering. LNCS 9418., Miami, FL, United States,  
Conference Date: 2015/12  
Paper  
Published  
Refereed?: Yes, Invited?: No
57. G Wainer. (2015). DEVS Modelling and Simulation for Development ofEmbedded Systems. Winter Simulation Conference, Huntington Beach, CA, United States,  
Conference Date: 2015/12  
Paper  
Published  
Refereed?: Yes, Invited?: No
58. S. Wang\*, G. Wainer. (2015). A Mashup Architecture with Modeling and Simulation as a Service. 16th International Conference Web Information System Engineering, Miami, United States. IEEE,  
Conference Date: 2015/11  
Paper  
Published  
Refereed?: Yes, Invited?: No
59. D. Vicino\*, G. Wainer, O. Dalle. (2015). Using Finite ForkableDEVS for Decision-Making Based on Time Measured with Uncertainty. SIMUTools 2015, Athens, Greece,  
Conference Date: 2015/9  
Paper  
Published  
Refereed?: Yes, Invited?: No
- [60.](#) Niyonkuru D\* and Wainer G. (2015). Towards a DEVS-based Operating System. Proceedings of the 2015 ACM SIGSIM Principles of Advanced Discrete Simulation, London, United Kingdom (101--112),  
Conference Date: 2015/6  
Paper  
Published  
Refereed?: Yes, Invited?: Yes

61. D. Vicino, G. Wainer, O. Dalle. (2015). Using Finite Forkable DEVS for Decision-Making Based on Time Measured with Uncertainty. ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), London, United Kingdom, Conference Date: 2015/5  
Poster  
Published  
Refereed?: Yes, Invited?: Yes
62. C Ruiz\*, A. López Paredes, G. Wainer. (2015). Applying Complex Network Theory to the Assessment of Organizational Resilience. 15th Symposium on Information Control Problems in Manufacturing INCOM 2015 Symposium, Ottawa, Canada. IFAC/IFIP/INFORMS, Conference Date: 2015/5  
Paper  
Published  
Refereed?: Yes, Invited?: No
63. S. Wang\*, G. Wainer. (2015). Semantic Selection for Model Composition using SAMSaaS. 2015 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS'15, Arlington, United States, Conference Date: 2015/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
64. M. Tavanpour\*, M. Moallemi\*, J. Mikhail\*, G. Wainer, G. Boudreau and R. Casselman. (2015). DEVS Based Modeling of Shared Segmented Upload in LTE-A Mobile Networks. Proceedings of 17th Communications and Networking Symposium (CNS'15), Alexandria, United States, Conference Date: 2015/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
65. D. Vicino\*, G. Wainer. (2015). Sequential PDEVS architecture. 2015 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS'15, United States, Conference Date: 2015/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
66. M. Etemad\*, S. Wang\*, G. Wainer. (2015). Mobile Simulation: Bringing Simulations to Smartphones. Mobile App competition paper. Spring Simulation Conference, Alexandria, United States, Conference Date: 2015/4  
Paper  
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Refereed?: Yes, Invited?: No
67. Inostrosa-Psijas A\*, Wainer G, Gil-Costa V, Marín M. (2014). DEVS modeling of large scale web search engines. Winter Simulation Conference 2014, Savannah, GA, Savannah, United States, Conference Date: 2014/12  
Paper  
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Refereed?: Yes, Invited?: Yes

68. Wainer G. (2014). Cellular Modeling with Cell-DEVS: a Discrete-Event Cellular Automata formalism (Plenary Paper). ACRI 2014 (Cellular Automata for Research and Industry, Krakow, Poland, Conference Date: 2014/9  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
69. Vicino D\*, Lung CH, Wainer G, Dalle O. (2014). Evaluating the impact of Software-Defined Networks' Reactive Routing on BitTorrent performance. International Workshop on Software Defined Networks for a New Generation of Applications and Services (SDN-NGAS 2014). Niagara Falls, ON., Niagara Falls, Canada,  
Conference Date: 2014/8  
Paper  
Published  
Refereed?: Yes, Invited?: No
70. Schyndel M\*, Wainer G, Khan A, Goldstein R\*. (2014). Computational Fluid Dynamic Cell-DEVS M&S of Coronary Heart Disease. Summer Computer Simulation Conference 2014, Monterey, United States, Conference Date: 2014/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
71. Tavanpour M\*, Moallemi M\*, Wainer G, Mikhail J\*, Boudreau G, Casselman R. (2014). Shared Segmented Upload in Mobile Networks using Coordinated Multipoint. 2014 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS'14), Monterey, United States, Conference Date: 2014/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
72. Hosang E\*, Wainer G. (2014). Interoperability Of DEVS And C-BML Simulation Models. International Conference on Modeling, Simulation and Visualization Methods (MSV 2014), Las Vegas, United States, Conference Date: 2014/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
73. Schyndel M\*, Wainer G. (2014). Advanced Computational Fluid Dynamic Solver Based on Cell-DEVS. 2014 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS'14, Tampa, United States, Conference Date: 2014/4  
Paper  
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Refereed?: Yes, Invited?: No
74. Wang S\*, Wainer G. (2014). Semantic Mashups for Simulation as a Service with Tag Mining and Ontology Learning. 2014 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS'14, Tampa, United States, Conference Date: 2014/4  
Paper  
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Refereed?: Yes, Invited?: No

75. Vicino D\*, Dalle O, Wainer G. (2014). A data type for discretized time representation in DEVS. 7th International ICST Conference on Simulation Tools and Techniques, 2014 (SIMUTools'14), Lisbon, Portugal,  
Conference Date: 2014/3  
Paper  
Published  
Refereed?: Yes, Invited?: No
76. Wainer G, Tavanpour M\*, Broutin E\*. (2013). Application of the DEVS and Cell-DEVS formalisms for modeling networking applications. Winter Simulation Conference (WSC), 2013, Washington DC, United States,  
Conference Date: 2013/12  
Paper  
Published  
Refereed?: Yes, Invited?: Yes
77. Timmons C\*, Wainer G. (2013). Thin Client Distributed Simulation Of Discrete Event Models. The International Workshop on Applied Modelling and Simulation, Buenos Aires, Argentina,  
Conference Date: 2013/11  
Paper  
Published  
Refereed?: Yes, Invited?: No
78. El-Shabani M\*, Moallemi M\*, Wainer G. (2013). Cellular Simulation of Asymmetric Energy Requirements in Wireless Sensor Networks. SCS/ACM Summer Computer Simulation Conference (SCSC'13), Toronto, Canada,  
Conference Date: 2013/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
79. Jeffery A\*, Panke J\*, Eaket N\*, Wainer G. (2013). Mobile Simulation With Applications for Serious Gaming. SCS/ACM Summer Computer Simulation Conference (SCSC'13), Toronto, Canada,  
Conference Date: 2013/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
80. Van Schyndel M\*, Wainer G, Moallemi M\*. (2013). Computational Fluid Dynamic Solver based on Cellular Discrete-Event Simulation. 2013 3rd International Conference on Simulation and Modeling Methodologies, Technologies and Applications, Reykjavik, Iceland,  
Conference Date: 2013/7  
Paper  
Published  
Refereed?: Yes, Invited?: No
81. Farrell R\*, Moallemi M\*, Wang S\*, Xiang W\*, Wainer G. (2013). Modeling and Simulation of Crowd using Cellular Discrete Event Systems Theory. ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), Montreal, Canada,  
Conference Date: 2013/5  
Paper  
Published  
Refereed?: Yes, Invited?: No

82. Saadawi H\*, Wainer G. (2013). Hybrid Systems Modeling and Verification with DEVS. 2013 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS/DEVS'13, San Diego, United States, Conference Date: 2013/4  
Paper  
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Refereed?: Yes, Invited?: No
83. Moallemi M\*, Wainer G, Jafer S\*, Boudreau G, Casselman R. (2013). Simulation of Mobile Networks using Discrete Event System Specification Theory. 2013 SCS/ACM 16th Communications and Networking Symposium (CNS'13), San Diego, United States, Conference Date: 2013/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
84. Wang S\*, Wainer G, Rajus V\*, Woodbury R. (2013). Occupancy Analysis using Building Information Modeling and Cell-DEVS Simulation. 2013 SCS/ACM/IEEE Symposium on Theory of Modeling and Simulation, TMS/DEVS'13, San Diego, United States, Conference Date: 2013/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
85. Wang S\*, Wainer G, Goldstein R\*, Khan A. (2013). Solutions for Scalability in Building Information Modeling and Simulation-Based Design. SCS/ACM Symposium on Simulation for Architecture and Urban Design, San Diego, United States, Conference Date: 2013/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
86. Freire V\*, Wang S\*, Wainer G. (2013). Visualization in 3ds Max for Cell-DEVS models based on Building Information Modeling. SCS/ACM Symposium on Simulation for Architecture and Urban Design, San Diego, United States, Conference Date: 2013/4  
Paper  
Published  
Refereed?: Yes, Invited?: No
87. Tavanpour M\*, Wainer G, Boudreau G, Casselman R. (2013). DEVS-based Modeling of Coordinated Multipoint Techniques for LTE-Advanced. 2013 SCS/ACM 16th Communications and Networking Symposium (CNS'13), San Diego, United States, Conference Date: 2013/4  
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101. Zapatero M\*, Castro R\*, Wainer G, Houssein M\*. (2011). Architecture For Integrated Modeling, Simulation And Visualization Of Environmental Systems Using GIS And Cell-DEVS. Winter Simulation Conference 2011, Phoenix, United States, Conference Date: 2011/12  
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102. Jafer S\*, Wainer G. (2011). Conservative Synchronization Methods for Parallel DEVS and Cell-DEVS. 2011 ACM/SCS Summer Computer Simulation Conference, The Hague, Netherlands, Conference Date: 2011/6  
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103. Ahmed A\*, Moallemi M\*, Wainer G, Mahmoud S. (2011). VCELL: A 3D Real-time Visual Simulation in Support of Combat. 2011 ACM/SCS Summer Computer Simulation Conference, The Hague, Netherlands, Conference Date: 2011/6  
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## Intellectual Property

### Patents

1. File Transfer by Mobile User Collaboration with Adaptive CoMP Collaboration Sets. United States. Invention Disclosure filed for patenting. P48177. 2015/12/01.  
Patent Status: Pending  
Inventors: M. Tavanpour, G. Boudreau, G. Wainer.
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Patent Status: Pending  
Inventors: G. Wainer, A. Al-Habashna\*, R. Casselman, G. Boudreau
3. File Transfer by Mobile User Collaboration. United States. US Patent filed: PCT/IB2015/054524. World: 15733541.5 – 1213. 2015/05/01.  
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Inventors: M. Tavanpour\*, J. Mikhail\*, G. Boudreau, H. Seyedmehdi, G. Wainer
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Inventors: G. Wainer, B. Uddin-Kazi, R. Casselman, G. Boudreau
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