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Professor Gabriel Andrés Wainer

Correspondence language: English

Sex: Male

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

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Social Media <https://www.facebook.com/pages/CDPlusPlus/209942572397637?fref=nf>
Social Media https://twitter.com/ARSLab_CU

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Protected when completed

Professor Gabriel Wainer

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

- 2018/4 Best Paper Award
Society for Modeling and Information International
Prize / Award
The paper "Analyzing 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.
 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 Federal University of Goias (UFG) and Federal Institute of Goias (IFG). Part-time
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=5]

2015/5 - 2020/4 Principal Investigator	Methodologies for real-time modeling and simulation, Grant, Operating Funding Sources: 2015/5 - 2020/4 Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grants Total Funding - 250,000 (Canadian dollar) Portion of Funding Received - 250,000 (Canadian dollar) Funding Renewable?: No Funding Competitive?: Yes
2018/9 - 2019/9	IoT Platform for Disaster Response, Grant Funding Sources: 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	A prototype to analyze the resilience of complex systems infrastructures, Grant

Funding Sources:

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

2018/4 - 2019/4 Unified Simulation Techniques for Advanced In-building Networks, Grant

Funding Sources:

2018/4 - 2019/4 Autodesk Research, QEII
 Total Funding - 58,500 (Canadian dollar)
 Portion of Funding Received - 58,500 (Canadian dollar)

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

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=39]

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) (Canadian dollar)

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'16-18)
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=79]

2018/9 - 2019/5 Principal Supervisor	Eli Yammine (In Progress) , 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 (In Progress) , 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 (In Progress) , 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)
2016/5 - 2016/6 Principal Supervisor	Maaïke 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 modes
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
2012/9 - 2013/3 Principal Supervisor	Jonathan Lam (Completed) , Carleton University Thesis/Project Title: Embedded Real Time systems: Robotic applications
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

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

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

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

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

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

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

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

2009/5 - 2009/9 Principal Supervisor	D. Tall. (Completed) , Université d'Aix-Marseille III Thesis/Project Title: Modeling and simulation of biological systems with Tethered Particle Systems
2008/9 - 2009/5 Principal Supervisor	Rohit Rishi (Completed) , Carleton University 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 Principal Supervisor	Yehia Elsayy (Completed) , Carleton University Thesis/Project Title: Parallel/Distributed simulation of complex systems
2008/9 - 2009/5 Principal Supervisor	Narges Mobarhani (Completed) , Carleton University Thesis/Project Title: Parallel/Distributed simulation of complex systems
2008/9 - 2009/5 Principal Supervisor	Sharmeen Yousuf (Completed) , Carleton University Thesis/Project Title: Parallel/Distributed simulation of complex systems
2008/9 - 2009/5 Principal Supervisor	Arindam Pramanik (Completed) , Carleton University Thesis/Project Title: CD++Builder: an Eclipse Platform for Modelling and Simulation Present Position: Director International Trade Exchange Ltd.
2008/9 - 2009/5 Principal Supervisor	Abdul Ahmed (Completed) , Carleton University Thesis/Project Title: Parallel/Distributed simulation of complex systems Present Position: Software Designer at Curtiss-Wright Controls
2008/9 - 2009/5 Principal Supervisor	Shaikh Asif (Completed) , Carleton University Thesis/Project Title: Parallel/Distributed simulation of complex systems Present Position: Data and Business Intelligence Analytics Bell Canada
2008/9 - 2009/5 Principal Supervisor	Prachit Rohatgi (Completed) , Carleton University 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: Interfacing DEVS 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 cultureand 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 forthe 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
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Master's Equivalent [n=31]

2014/11 - 2016/12 Principal Supervisor	Laouen Beolli (In Progress) , Universidad de Buenos Aires, Argentina (DFAIT - ELAP Scholar at Carleton University) Thesis/Project Title: Defining DEVS models for biology pathways in e-coli cells. Present Position: Masters Equivalent Student
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
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
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 Principal Supervisor	Juan José Seoane (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: IGNATIUS: a tool to develop SCADA systems
1995/3 - 1997/3 Principal Supervisor	Silvia Benítez (Completed) , Universidad de Buenos Aires, Argentina Thesis/Project Title: IGNATIUS:a tool to develop SCADA systems

Master's non-Thesis [n=11]

2017/9 - 2018/5 Principal Supervisor	Srivastav Janapalli (Completed) , Carleton University Student Degree Received Date: 2018/5 Thesis/Project Title: Interaction of pedestrianvehicle models in a 3D immersive simulation application
2017/9 - 2018/5 Principal Supervisor	Daniel Melean (Completed) , Carleton University 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.
2017/9 - 2018/5 Principal Supervisor	Gurveen Kaur (In Progress) , Carleton University Thesis/Project Title: Advanced controller for roboticapplications using DEVSRT
2017/9 - 2018/5 Principal Supervisor	Mandeep Singh Bal (In Progress) , Carleton University Thesis/Project Title: Advanced controller forquadcopters using DEVSRT

- 2017/6 - 2017/12
Principal Supervisor Sagar Patel (Completed) , Carleton University
Student Degree Received Date: 2017/12
Thesis/Project Title: Advanced DEVS controller for robotic application
- 2015/6 - 2015/12
Principal Supervisor Natalia Gorbenko (Completed) , Carleton University
Thesis/Project Title: Technical Support Excellence Modeling using CloudComputing
- 2015/1 - 2015/12
Principal Supervisor Ali Salaheddin (Completed) , Carleton University
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
Principal Supervisor K. Waqas Muhi (Completed) , Carleton University
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=24]

- 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.***
- 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 CD++
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
- 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
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
Principal Supervisor Hesham Saadawi (Completed) , Carleton University
Thesis/Project Title: Improving the Finite Elements Method using Cell-DEVS
- 2001/9 - 2003/9
Principal Supervisor Wenhong Chen (Completed) , Carleton University
Thesis/Project Title: A facility for remote execution and visualization of Cell-DEVS models
- 2000/9 - 2002/9
Co-Supervisor Amir Saghir (Completed) , Carleton University
Thesis/Project Title: Computer system modeling at the hardware level
Other Supervisors: Principal Supervisor - Pearce, Trevor

Doctorate [n=21]

- 2017/9
Principal Supervisor Bruno Saint-Aubin (In Progress) , Carleton University
Student Degree Start Date: 2017/9
- 2017/5
Co-Supervisor Viviane Margarida Gomes (In Progress) , University of Goias, Brazil
Thesis/Project Title: Modeling and Simulation Applied to Metrics for Systems Complexity
- 2017/1 - 2021/1
Principal Supervisor Joseph Boi-Ukeme (In Progress) , Carleton University
- 2017/1
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
- 2017/1
Co-Supervisor Márcio Rodrigues da Cunha Reis (In Progress) , Federal University of Goiás, Brazil
Student Degree Start Date: 2015/9
Thesis/Project Title: Optimization and Control Methods to Maximize Performance for a Switched Reluctance Motor
- 2017/1
Co-Supervisor Alana da Silva Magalhães (In Progress) , Federal University of Goiás, Brazil
Student Degree Start Date: 2014/9
Thesis/Project Title: Reducing harmonic levels in synchronous generators using inductive generators
- 2015/9 - 2020/9
Principal Supervisor Talal Qamar (In Progress) , Carleton University
Thesis/Project Title: Formal definition of Environmental Frameworks for DEVS
- 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 - 2017/9
Principal Supervisor Omar Hesham (In Progress) , Carleton University
Thesis/Project Title: Integrating Building Information Modeling software with Cellular Discrete-Event simulation

- 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=10]

2018/9
Principal Supervisor Ala'a Al-Habashna (In Progress) , Carleton University

2018/9
Principal Supervisor Baha Uddin Kazi (In Progress) , Carleton University

2018/7
Principal Supervisor Cristina Ruiz-Martín (In Progress) , Carleton 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
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]

2019/2 - 2019/6
Principal Supervisor Juan Lanuza, University of Buenos Aires, Argentina
Thesis/Project Title: Interfacing BIM models and Embedded DEVS for building control
Present Position: M.C.S. Student

2018/5 - 2018/9
Principal Supervisor Romain Ferrero, Marseille Univesity
Thesis/Project Title: Mining Simulation results in a Resilience model

2018/5 - 2018/9 Principal Supervisor	Romain Bach (Completed) , Marseille Univesity Thesis/Project Title: Analysis of simulation results for LTE protocols
2018/5 - 2019/9 Principal Supervisor	Damiche Gharib, Marseille Univesity Thesis/Project Title: Control system for building based on DEVS M&S
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)
2017/1 - 2017/6 Principal Supervisor	Neisser Pino Romero Thesis/Project Title: Studying diffusion of disease using cellular models (Emerging Leaders of the Americas Program) Present Position: Research Assistant
2016/9 - 2017/5 Principal Supervisor	Fernando Conde, University of Buenos Aires, Argentina Thesis/Project Title: Modeling Robotic Controllers with Embedded DEVS (Emerging Leaders of the Americas Program) Present Position: M.C.S. student
2015/1 - 2016/4 Principal Supervisor	Michael Van Schyndel, Carleton University Thesis/Project Title: Porting SageTea Virtual Machine

Event Administration

2017/1	Member of the Steering Committee, M&S and Complexity in Intelligent, Adaptive and Autonomous Systems (MSCIAAAS'18). - Baltimore, MD (2018) - Virginia Beach, VA (2017), Conference
2018/12 - 2020/12	Member of the Board of Directors, Winter Simulation Conference, Conference, 2018/12 - 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
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
2017/6 - 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
2017/6 - 2018/6	Tutorial and Special Sessions Chair, IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, Conference
2013/12 - 2017/12	Program Committee Chair, Winter Simulation Conference, Las Vegas, NV, Conference, 2017/12 - 2017/12
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
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 - 2018/12	Member of the Editorial Board, IEEE/AIP Computing in Science and Engineering, Journal
2009/1 - 2018/12	Member of the Editorial Board, Wireless Networks, Springer, Journal
2008/1 - 2018/7	Associate Editor, Journal of Defense Modeling and Simulation. Society for Modeling and Simulation International. San Diego, CA, USA, Journal
2004/1 - 2018/7	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.
2008/1 - 2017/12	Special Issues Editor, Simulation: Transactions of the Society for Modeling and Simulation International. San Diego, CA, USA, Journal
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. Tolc, 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

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-RIAI) 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, (7 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, (10 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, (29 M.Sc./M.A.Sc. defences), University of Ottawa

Organizational Review Activities

2016/6 - 2019/6	External Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC) Member of the NSERC Evaluation Group. Discovery Grants Evaluation Group for Computer Science.
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2015/3 - 2019/3	External evaluator, CAPES (Brazil) Member of the Bank of Reviewers
2018/4 - 2018/8	External Reviewer, Fond National de la Recherche Scientifique, Belgium
2017/3 - 2017/12	External Reviewer National Center of Science and Technology Evaluation, Republic of Kazakhstan
2014/1 - 2017/12	External evaluator, College of Reviewers, Ontario Centres of Excellence Project Evaluation
2017/4 - 2017/9	External Reviewer, Fond National de la Recherche Scientifique, Belgium
2017/5 - 2017/6	External Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC) External Reviewer for the Canada Research Chairs program.
2017/2 - 2017/5	External Evaluator Fond National de la Recherche Scientifique, Belgium
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 - 2015/3	External evaluator, National Center of Science and Technology Evaluation (Kazakhstan) Research Project Evaluation
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)
2014/1 - 2014/1	External evaluator, Fond National de la Recherche Scientifique, Belgium Project Evaluation for FNRS in 2010 and 2014
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

2012/5 - 2016/9	Research Advisor, R&D Collaboration with Industry Group/Organization/Business Serviced: EricssonCanada Target Stakeholder: Industry/Business (>500 employees) Outcome / Deliverable: Definition of new algorithms for advanced wireless communication in LTE networks (five patent filed, two more patents to be filed in 2016).
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- 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: Ideeclinc 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

- 2014/2 Researcher,, Brazil
Joint research activities and Memorandum of Understanding signed with University of Pernambuco (Prof. Fernandes S) and University of Brazilia (Prof. Pacheco-Calixto W) to interchange Ph.D. students and researchers with the Advanced Real-Time Simulation Lab at Carleton University.
- 2013/1 Researcher, Chile
Joint research on modeling Web Centers (Inostrosa-Psijas A*, Gil-Costa V, Marín M) with Yahoo Research Latinamerica, University of Santiago (Chile), National University of San Juan (Argentina). Joint publications and research visits between the two groups.
- 2012/7 Researcher, Argentina
Joint research activities with the Computer Science Department. Joint research on Discrete-Event Simulation (Castro R*, Belloli L*, Zapatero M*). Various visits from researchers in the two labs, and varied publications as a result of this collaboration.
- 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*).
- 2001/1 - 2015/10 Researcher, France
Joint research activities with IMS Center at the University of Bordeaux, LSIS at the University of Marseille, and Université Blaise-Pascal, France. Joint work on discrete-event modeling and simulation and distributed simulation (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.
- 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

- 2018/1 - 2018/12 Committee Member, ACRI 2018 (Cellular Automata for Research and Industry). Lake Como, Italy.
- 2018/5 - 2018/8 Committee Member, MULTILOG 2018, Challenges and Innovative Solutions for Multimodality in Global Transport Networks. Puerto Escondido, México.
- 2018/3 - 2018/7 Committee Member, International Joint Conference - CIO-ICIEOM-IISE-AIM, Girona, Spain
- 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. - 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 - 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. Singapour, 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

- 2016/6 External Evaluator for Mid Tenure, City University of New York - Staten Island
Candidate: Dr. Feng Gu
- 2018/9 - 2018/10 External Evaluation, Jordan University of Science and Technology
- 2018/7 - 2018/9 External Evaluator, Southwest Texas State University
- 2017/6 - 2017/9 External Evaluator for Tenure, Southwest Texas State University
Candidate: Eduardo Pérez.
- 2017/1 - 2017/5 External Evaluator for Tenure and Professorship, Loyola College in Maryland
Candidate: Megan Olsen
- 2017/3 - 2017/4 External Evaluator, Université de Nice, Sophia-Antipolis
Habilitation pour Recherche (HDR). Prof. Alexandre Muzy.
- 2016/5 - 2016/12 External Committee Member for Professorship, Universidad de Buenos Aires
Jury member for Assistant Professor contest. 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 PONNUSAMY
- 2015/5 - 2015/12 External Evaluator for Full Professorships, Loyola College in Maryland
Candidate: Prof. Mohammad Raunak.
- 2015/5 - 2015/7 External Evaluator for Full Professorships, Old Dominion University
Candidate: John Sokolowski
- 2015/1 - 2015/4 External Examiner, Universidad de Buenos Aires
Jury member for Assistant Professor contest.
- 2014/3 - 2014/9 External Evaluator for Full Professorship, State Univ of New York - Binghamton
Candidate: Dmitry V. Ponomarev
- 2014/5 - 2014/7 External Evaluator for Full Professorships, Ryerson University
Candidate: 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. Student: Luc Touraille.
- 2012/2 - 2012/4 External Reporter, University of Corsica, Corte, France
Ph.D. Candidate: Emilie Broutin
- 2011/3 - 2011/5 External Reporter, Université de Nice Sophia-Antipolis
Committee Member of Ph.D. Thesis. Student: Judicaël Ribault

2011/3 - 2011/5	External Examiner, Université de Nice Sophia-Antipolis Committee Member of Ph.D. Thesis. Student: Juan Carlos Maureira.
2010/3 - 2010/5	External Examiner, Université D'Aix-Marseille III (D'Economie & Sci) Committee Member of of Ph.D. Thesis. Student: 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. Student: Lassaad Baati.
2008/3 - 2008/5	External Examiner, École Polytechnique de Montréal Committee Member of Ph.D. exam. Student: 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. Student: Ernesto Posse.
2007/3 - 2007/6	External Examiner, Universitat Politècnica de Catalunya Ph.D. Candidate: Pau Fonseca
2006/1 - 2006/6	External Examiner, Université D'Aix-Marseille III (D'Economie & Sci) Ph.D. Candidate: Gregory Zacharewicz
2005/1 - 2005/6	External Examiner, University of Corsica, Corte, France Ph.D. Candidate: Laurent Capocci

Presentations

1. Simulation Everywhere. Seminar, Valladolid, Spain
Invited?: Yes, Keynote?: No, Competitive?: No
2. (2018). Spatial Systems Modelling with Cellular Discrete-Event Modeling and Simulation (Tutorial). Summer Simulation Conference, Bordeaux, France
Invited?: No, Keynote?: No, Competitive?: Yes
3. (2018). 50 Summers of Computer Simulation. - Panel Session speaker, SCSC Golden Jubilee Panel, Bordeaux, France
Invited?: Yes, Keynote?: No, Competitive?: No
4. (2018). Crowd Modeling and Simulation of Spatial Systems with Cell-DEVS. 8th International Conference on Simulation and Modeling Methodologies, Technologies and applications. InfoNor 2018, Iquique, Chile
Invited?: Yes, Keynote?: Yes
5. (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
6. (2018). Discrete-Event Modeling and Simulation Methodologies: Past, Present and Future. Ninth Workshop in Simulation., Barcelona, Spain
Invited?: Yes, Keynote?: Yes
7. (2018). Lessons learned in PhD Research for Modeling and Simulation. Panel Session Speaker at PADS 2018 PhD Colloquium, Rome, Italy
Invited?: Yes, Keynote?: No, Competitive?: No

8. (2018). Introduction to the DEVS Formalism. Tutorial at the Winter Simulation Conference, Gothenburg, Sweden
Invited?: No, Keynote?: No, Competitive?: Yes
9. (2018). Simulation Everywhere. 13th International meeting on High Performance Computing for Computational Science, VECPAR 2018., Sao Pedro, SP, Brazil
Invited?: Yes, Keynote?: Yes
10. (2018). Centrality of the User In Performance Assessment for Building Simulation. Panel Session Speaker. SimAUD 2018., Delft, Netherlands
Invited?: Yes, Keynote?: No, Competitive?: No
11. (2017). Discrete-Event Modeling and Simulation: Past, Present and Future. Seminar at the Software Engineering Lab, University of Rome, Tor-Vergata, Rome, Italy
Invited?: Yes, Keynote?: No
12. (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
13. (2017). Modeling and Simulation As a Service. (Seminar) University of Bordeaux, Bordeaux, France
Invited?: Yes, Keynote?: No
14. (2017). DEVS Modelling and Simulation for Development of Embedded Systems. (Seminar) University of Calabria, Rende, Italy
Invited?: Yes, Keynote?: No
15. (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
16. (2017). Cell-DEVS: contributions and challenges. Keynote presentation at the Memorial Workshop in honour of Norbert Giambiasi, Marseille, France
Invited?: Yes, Keynote?: Yes
17. (2017). Simulation Everywhere. Seminar at University of Rome, La Sapienza, Rome, Italy
Invited?: Yes, Keynote?: No
18. (2017). Introduction to Discrete Event Modeling and Simulation. Latin American Conference in Informatics, Córdoba, Argentina
Invited?: Yes, Keynote?: Yes
19. (2017). Discrete-Event Modeling and Simulation: Past, Present and Future. (Seminar) University of Roma, Tor-Vergata., Rome, Italy
Invited?: Yes, Keynote?: No
20. (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
21. (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
22. (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
23. (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

24. (2015). Applying Modelling and Simulation for Development of Embedded Systems (seminar). Sakarya University, Sakarya, Turkey
Invited?: Yes, Keynote?: No
25. (2015). DEVS Modelling and Simulation for Development of Embedded Systems (tutorial). Winter Simulation Conference, Huntington Beach, United States
Invited?: Yes, Keynote?: No, Competitive?: Yes
26. (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
27. (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
28. (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
29. (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
30. (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
31. (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
32. (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
33. (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
34. (2013). Introduction to Discrete-Event Modeling and Simulation with DEVS. (Seminar) Seminar series. Universidad Torcuato Di Tella, Buenos Aires, Argentina
Invited?: Yes, Keynote?: No
35. (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
36. (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
37. (2013). Applying Modelling and Simulation for Development of Embedded Systems. The 2nd IEEE Mediterranean Conference on Embedded Computing, Budva, Montenegro
Invited?: Yes, Keynote?: Yes

38. (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
39. (2013). Simulation Everywhere. First ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS). Ph.D. Colloquium, Montreal, Canada
Invited?: Yes, Keynote?: Yes
40. (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
41. (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
42. (2013). An Introduction to the DEVS formalism. (Tutorial) Spring Simulation Conference, San Diego, United States
Invited?: Yes, Keynote?: No
43. (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
44. (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
45. (2012). Distributed simulation with DEVS and Web Services. (Seminar) IMS Lab. Université de Bordeaux I, Bordeaux, France
Invited?: Yes, Keynote?: No
46. 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
47. (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
48. (2012). Simulation Everywhere. International Workshop on Modeling and Applied Simulation, WAMS 2012, Rome, Italy
Invited?: Yes, Keynote?: Yes
49. (2012). Discrete event modeling and simulation: present, past, future. (Seminar) Computer Science Dept., Universidad de Buenos Aires, Buenos Aires, Argentina
Invited?: Yes, Keynote?: No
50. (2012). Discrete event modeling and simulation: present, past, future (seminar). Computer Science Dept., Universidad de Buenos Aires, Buenos Aires, Argentina
Invited?: Yes, Keynote?: No
51. (2012). The Cell-DEVS formalism. (Invited speaker) ACTIMS 2012 (Activity based Modeling and Simulation), Paris, France
Invited?: Yes, Keynote?: No
52. (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

53. (2012). Applying Modelling and Simulation for Development and Testing of Embedded Systems. (Seminar) Florida International University, Miami, United States
Invited?: Yes, Keynote?: No
54. (2012). Advanced Spatial Systems with Cellular Discrete-Event Modeling and Simulation. (Tutorial) Winter Simulation Conference, Berlin, Germany
Invited?: Yes, Keynote?: No
55. (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
56. (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
57. (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
58. 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
59. (2011). Discrete event modeling and simulation: present, past, future. SimGrid meeting, Nice, France
Invited?: Yes, Keynote?: Yes
60. (2010). Discrete event modeling and simulation: present, past, future. (Seminar) Universidad Complutense de Madrid, Madrid, Spain
Invited?: Yes, Keynote?: No
61. (2010). Methodology for Embedded (Robotic) Software Development. Research meeting and School on Distributed Computing by Mobile Robots, Ottawa, Canada
Invited?: Yes, Keynote?: No
62. (2010). Discrete event modeling and simulation: present, past, future. (Seminar) Universidad de Valladolid, Valladolid, Spain
Invited?: Yes, Keynote?: No
63. (2010). Discrete event modeling and simulation: present, past, future. Modeling and Simulation Symposium 2010, Mérida, Venezuela, Bolivarian Republic of
Invited?: Yes, Keynote?: Yes
64. (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
65. 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
66. (2009). An Introduction to the DEVS formalism. (Tutorial) SCS Spring Simulation Conference, San Diego, United States
Invited?: Yes, Keynote?: No
67. (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

68. (2009). Introduction to Parallel DEVS simulation. HPCLatam 2009, Latin-American conference on High-Performance Computing, Mar del Plata, Argentina
Invited?: Yes, Keynote?: Yes
69. (2009). The DEVStone Benchmark: uniform methodology for Simulation Benchmarking. DEVS Symposium, SCS Spring Simulation Conference, San Diego, United States
Invited?: Yes, Keynote?: Yes
70. 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
71. (2007). Modeling and simulation of complex cell spaces. AUTOMATA 2007. The Fields Institute for Research in Mathematical Sciences, Toronto, Canada
Invited?: Yes, Keynote?: No
72. (2007). Advances in DEVS Modeling and Simulation Methodologies. European Conference on Modeling and Simulation, ECMS 07, Prague, Czech Republic
Invited?: Yes, Keynote?: Yes
73. (2007). Current and Future Trends in DEVS. Summer Computer Simulation Conference, San Diego, United States
74. (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
75. (2007). On the use of DEVS modeling and simulation methodologies for building production systems (seminar). INSA Strasbourg, Strasbourg, France
Invited?: Yes, Keynote?: No
76. (2007). Modeling Embedded systems with DEVS (seminar). Computer Science Dept., Universidad de Buenos Aires, Buenos Aires, Argentina
Invited?: Yes, Keynote?: No
77. (2006). Modeling Discrete-Event systems with DEVS (seminar). Université Paul Cezanne, Marseille, France
Invited?: Yes, Keynote?: No
78. (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
79. (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
80. (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
81. (2005). Discrete event modeling and simulation: present, past, future (seminar). Université Paul Cezanne, Marseille, France
Invited?: Yes, Keynote?: No
82. (2005). An Introduction to the DEVS formalism (Tutorial). SCS Spring Simulation Conference, San Diego,
Invited?: Yes, Keynote?: No
83. (2004). Modeling and simulation of complex systems with Cell-DEVS (Tutorial). Winter Simulation Conference, Washington, United States
Invited?: No, Keynote?: No, Competitive?: Yes

84. (2004). Component-based modeling of Real-Time Systems. Seminar 04041, Component-based Modeling and Simulation. Schloss Dagstuhl., Saarbrücken, Germany
Invited?: Yes, Keynote?: No
85. (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
86. (2004). Component-based development of real-time systems using the DEVS formalism (seminar). Hasso-Plattner Institute, Potsdam University, Potsdam, Germany
Invited?: Yes, Keynote?: No
87. (2003). Priorities for Modeling and Simulation Standards (panel). SCS Summer Computer Simulation Conference, Montréal,
Invited?: Yes, Keynote?: No
88. (2003). Discrete event modeling using the DEVS formalism (seminar). École Polytechnique de Marseille, Marseille, France
Invited?: Yes, Keynote?: No
89. (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
90. (2003). Modeling and simulation methodologies: past, present and future (seminar). Defence R&D Canada, Ottawa, Canada
Invited?: Yes, Keynote?: No
91. (2003). Modeling and Simulation of complex cell spaces (tutorial). ISC'2003, EuroSim Industrial Simulation Conference, Valencia, Spain
Invited?: No, Keynote?: No
92. (2003). Modeling computer architectures in DEVS (seminar). Universidad Politècnica de Catalunya, Barcelona, Spain
Invited?: Yes, Keynote?: No
93. (2003). Discrete event cellular modeling using the DEVS formalism (seminar). University of Pisa, Pisa, Italy
Invited?: Yes, Keynote?: No
94. (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
95. (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
96. (2002). Parallel and Distributed Simulation Techniques (seminar). École Polytechnique de Marseille, Marseille, France
Invited?: Yes, Keynote?: No
97. (2002). Modeling and Simulation of complex systems using Cell-DEVS (seminar). California Institute of Technology (Caltech), Pasadena, United States
Invited?: Yes, Keynote?: No
98. (2001). The DEVS modeling formalism (seminar). Spanish Network on techniques for digital Simulation and application to industrial processes, Valladolid, Spain
Invited?: Yes, Keynote?: Yes

99. (2001). Modeling and simulation of complex systems using the DEVS formalism (tutorial). Modeling and Simulation 2001, Pittsburgh, United States
Invited?: No, Keynote?: No
100. (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
101. (2000). Discrete Event simulation using the Cell-DEVS formalism (seminar). University of California, Irvine, United States
Invited?: Yes, Keynote?: No
102. (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
103. (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
104. (1999). Introduction to discrete events modeling and simulation (tutorial). Argentine Conference of Computer Sciences, Tandil, Argentina
Invited?: Yes, Keynote?: No
105. (1998). Modeling and simulation using the DEVS and Cell-DEVS formalisms (seminar). Argentine Society on Automatic Control, Buenos Aires, Argentina
Invited?: Yes, Keynote?: No
106. (1996). Introduction to the development of Real-Time systems (Tutorial). IV Forum on Informatics, Rosario, Argentina
Invited?: Yes, Keynote?: No
107. (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
108. (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

- | | |
|----------------------------|--|
| 2018/05/01 | Online interview about the history of the SIMAUD conference, Youtube
https://www.youtube.com/watch?v=MN1zNrHw-Sc |
| 2017/07/01 | Online interview "On Crowd Modelling", Sim4All; Old Dominion University-VMASC.
Youtube
https://www.youtube.com/watch?v=Az11Ofw_UBc |
| 2011/11/14 -
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 -
2004/06/04 | Forest wildfires modeling using Cell-DEVS, Noon @ the NewRO, CHRO TV Ottawa. |

Text Interviews

- | | |
|------------|---|
| 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, Silicon 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. 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
2. *N. Pino Romero, R. Lopez, G. Wainer. (2018). Using Cell-DEVS to model transmission of STDs (in Spanish). *Selecciones Matemáticas*. 5(1): 39-47.
<http://dx.doi.org/10.17268/sel.mat.2018.01.06>
Published, UniTru, Peru
Refereed?: Yes, Open Access?: Yes
3. 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.
<http://dx.doi.org/https://doi.org/10.4995/ijpme.2018.7898>
Published,
Refereed?: Yes, Open Access?: No
4. *B. Kazi, G. Wainer. (2018). Next Generation Wireless Cellular Networks: Ultra-Dense Multi-Tier and Multi-Cell Cooperation Perspective. *Wireless Networks*.
In Press, Elsevier,
Refereed?: Yes, Open Access?: No
5. A Inostrosa-Psijas*, V Gil-Costa, M Marin, G Wainer. (2017). Semi-Asynchronous Approximate Parallel DEVS Simulation of Web Search Engines. *Concurrency And Computation: Practice And Experience*.
<http://dx.doi.org/10.1002/cpe.4149>
Published,
Refereed?: Yes, Open Access?: No
6. B. Kazi*, G. Wainer. (2017). Integrated Cellular Framework for Modeling Ecosystems: Theory and Applications. *SIMULATION: Transactions of the Society for Modeling and Simulation International*.
Accepted,
Refereed?: Yes, Open Access?: No
7. S. Wang*, G. Wainer. (2017). MAMS: Mashup architecture with modeling and simulation as a service. *Journal of Computational Science*. 21(1): 113-131.
Published,
Refereed?: Yes, Open Access?: No
8. A. Al-Habashna*, G. Wainer, G. Boudreau, R. Casselman. (2017). Improving Video Transmission in Cellular Networks with Cached and Segmented Video Download Algorithms. *Mobile Networks and Applications*.
In Press, Elsevier,
Refereed?: Yes, Open Access?: No
9. B Kazi*, G. Wainer. (2017). Integrated Cellular Framework for Modeling Ecosystems: Theory and Applications. *SIMULATION: Transactions of the Society for Modeling and Simulation International*.
<http://dx.doi.org/https://doi.org/10.1177/0037549717706007>
Published,
Refereed?: Yes

10. *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.
<http://dx.doi.org/10.15381/pes.v20i2.13969>
Published, UNMSM, Peru
Refereed?: Yes, Open Access?: Yes
11. R. Goldstein, A. Khan, O. Dalle, G. Wainer. (2017). Multiscale Representation of Simulated Time. *SIMULATION: Transactions of the Society for Modeling and Simulation International*.
In Press,
Refereed?: Yes, Open Access?: No
12. G. Wainer. (2017). Advanced Cell-DEVS modeling applications: a legacy of Norbert Giambiasi. *SIMULATION: Transactions of the Society for Modeling and Simulation International*.
<http://dx.doi.org/10.1177/0037549718754690>
In Press,
Refereed?: Yes, Open Access?: No
13. 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.
<http://dx.doi.org/http://eudl.eu/doi/10.4108/eai.24-8-2015.2261152>
Published, EAI,
14. 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.
Published,
Refereed?: Yes
15. G Wainer. (2016). Real-Time Simulation of DEVS Models in CD++. *International Journal of Process Modeling and Simulation*. Inderscience.11(2): 138-153.
Published,
Refereed?: Yes
16. 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
17. 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,
Refereed?: Yes
18. 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.
Published,
Refereed?: Yes
19. G Wainer, J Fernández. (2016). Modelling and simulation of complex cellular models using Cell-DEVS. *SIMULATION: Transactions of the Society for Modeling and Simulation International*. 92(2): 101-115.
Published,
Refereed?: Yes
20. C Ruiz-Martin*, G Wainer, A Lopez-Paredes. (2016). Assessment of Organizational Resilience through Network Theory. *Reliability Engineering & System Safety*.
Submitted,
Refereed?: Yes

21. G Sirakoulis, J Was, G Wainer. (2016). Discrete Modeling and Simulation. AIP/IEEE Computing in Science and Engineering. 18(8): 8-10.
Published,
Refereed?: Yes
- [22.](#) M Tavanpour*, J Mikhail*, M Moallemi*, G Wainer, G Boudreau, R Casselman. (2015). Data Upload in LTE-A Mobile Networks by Using Shared Segmented Upload. Journal of Networks (JNW). 10(4): 252--264.
Published,
Refereed?: Yes
23. R Goldstein, G Wainer. (2015). Hierarchical Biological DEVS Model Design. IEEE/AIP Computation in Science and Engineering. 17(6): 72-82.
Published,
Refereed?: Yes, Open Access?: No
- [24.](#) 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.
Published,
Refereed?: Yes
25. G. Wainer. (2015). Principles of Advanced Discrete Simulation (Editorial). ACM Transactions on Modeling and Computer Simulation (TOMACS). 26(1): 1e.1-1e.3.
Published,
Refereed?: No
26. Wainer G, Glinsky E*. (2015). Real-Time Simulation of DEVS Models in CD++. International Journal of Simulation and Process Modeling.
Accepted, Inderscience,
Refereed?: Yes, Open Access?: No
- [27.](#) Al-Zoubi K*, Wainer G. (2015). Distributed Simulation of DEVS and Cell-DEVS models using RISE Middleware. Simulation Modelling Practice and Theory. 55(6): 27-45.
Published,
Refereed?: Yes
- [28.](#) 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.
Published,
Refereed?: Yes, Open Access?: No
- [29.](#) Wainer, G. (2015). The Cell-DEVS Formalism as a Method for Activity Tracking in Spatial Modeling and Simulation. International Journal of Simulation and Process Modeling. 10(1): 19-38.
Published,
Refereed?: Yes
- [30.](#) K Al-Zoubi* and G Wainer. (2015). Distributed simulation of DEVS and Cell-DEVS models using the RISE Middleware. Simulation Modelling Practice and Theory. 55: 27--45.
Published,
Refereed?: Yes
31. E. Hosang*, G. Wainer. (2015). AnArchitecture to Facilitate Interoperability of DEVS and C-BML Simulation Models. Journal of Defense Modeling and Simulation. 13(1): 43-65.
Published,
Refereed?: Yes
- [32.](#) S Wang*, G Wainer. (2015). A simulation as a service methodology with application for crowd modeling simulation and visualization. Simulation. 91(1): 71--95.
Published,
Refereed?: Yes

33. A. Al-Habashna*, G. Wainer. (2015). Cell-DEVS Modeling and Simulation of Crowd behavior: Theory and Applications. SIMULATION, Transactions of the Society for Modeling and Simulation International. Revision Requested, Refereed?: Yes
- [34.](#) D. Vicino*, G. Wainer, C.-H. Lung, O. Dalle. (2015). Investigation On the impact of Software-Defined Networks' Reactive Routing against BitTorrent. IET Networks (Special Issue on Software-Defined Networks). : 1-6. Published, Refereed?: Yes
35. Wang S*, Wainer G. (2014). A Simulation As A Service Methodology with Application for Crowd Modeling, Simulation and Visualization. Simulation: Transactions of the Society for Modeling and Simulation International. In Press, Refereed?: Yes
- [36.](#) Van Schyndel M*, Wainer G, Goldstein R*, Mogk J, Khan A. (2014). On the definition of a computational fluid dynamic solver using cellular discrete-event simulation. Journal of Computational Science. 5(6): 882-890. Published, Elsevier, Refereed?: Yes
37. Moallemi M*, Wainer G. (2013). Modeling and simulation-driven development of embedded real-time systems. Simulation Modelling Practice and Theory. 38(8): 115-131. Published, Refereed?: Yes
38. Jafer S*, Liu Q*, Wainer G. (2013). Synchronization methods in parallel and distributed discrete-event simulation. Simulation Modelling, Practice and Theory. 30(1): 54-73. Published, Refereed?: Yes
39. Bonaventura M*, Wainer G, Castro R*. (2013). Graphical modeling and simulation of discrete-event systems with CD++ builder. SIMULATION: Transactions of the Society for Modelling and Simulation International. 89(1): 4-27. Published, Refereed?: Yes
40. Golshani A, Samanfar B, Omid K, Hooshyar M, Laliberte B, Alamgir M, Seal A.J, Ahmed-Muhsin E, Viteri D.F, Said K, Chalabian F, Golshani A*, Wainer G, Burnside D, Shostak K, Bugno M et al. (2013). Large-scale investigation of oxygen response mutants in *Saccharomyces cerevisiae*. Molecular BioSystems. 9(6): 1351-1359. Published, Refereed?: Yes
41. Al-Zoubi K*, Wainer G. (2013). RISE: A general simulation interoperability middleware container. Journal of Parallel and Distributed Computing. 73(5): 580-594. Published, Refereed?: Yes
42. Saadawi H*, Wainer G. (2013). Principles of Discrete Event System Specification model verification. SIMULATION: Transactions of the Society for Modeling and Simulation International. 89(1): 41-67. Published, Refereed?: Yes

43. Liu Q*, Wainer G. (2012). Multicore acceleration of Discrete Event System Specification systems. *SIMULATION: Transactions of the Society for Modeling and Simulation International*. 88(7): 801-831.
Published,
Refereed?: Yes
44. Wainer G, Castro R*. (2011). DEMES: a Discrete-Event methodology for Modeling and simulation of Embedded Systems. *Modeling and Simulation Magazine*. Society for Modeling and Simulation International. 2(2)
Published,
Refereed?: Yes
45. Wainer G, Glinsky E*, Gutierrez-Alcaraz M*. (2011). Studying the performance of DEVS modeling and simulation environments using the DEVStone benchmark. *SIMULATION: Transactions of the Society for Modeling and Simulation International*. 87(7): 555-580.
Published,
Refereed?: Yes
46. Goldstein R*, Wainer G. (2011). Impulse-based dynamic simulation of deformable biological structures. *Transactions on Computational Systems Biology XIII*. 6575: 39-60.
Published,
Refereed?: Yes
47. Wainer G, Castro R*. (2010). A survey on the application of the cell-DEVS formalism in cellular models. *Journal of Cellular Automata*. 5(6): 509-524.
Published,
Refereed?: Yes
48. Wainer G, Dalle O. (2010). Software tools, techniques and architectures for computer simulation. *SIMULATION: Transactions of the Society for Modelling and Simulation International*. 86(5-6): 267-269.
Published,
Refereed?: Yes
49. Castro R*, Kofman E, Wainer G. (2010). A formal framework for stochastic discrete event system specification modeling and simulation. *Simulation: Transaction of the Society for Modeling and Simulation International*. 86(10): 587-611.
Published,
Refereed?: Yes
50. Wainer G. (2010). Editorial for the Special Issue: Recent advances in unified modeling and simulation approaches. *Simulation: Transaction of the Society for Modeling and Simulation International*. 86(1 and 3): 3-4.
Published,
Refereed?: Yes
51. Wainer G, Djafarzadeh R*. (2010). DEVS modelling and simulation of the cellular metabolism by mitochondria. *Molecular Simulation*, Taylor and Francis. 36(12): 907-928.
Published,
Refereed?: Yes
52. Heath J R, Dalle O, Wainer G. (2010). Erratum to: Development Tools and Techniques for Mobile Telecommunications. *Mobile Networks and Applications*. 15(6): 816.
Published,
Refereed?: Yes
53. Wainer G, Liu Q*, Dalle O, Zeigler B. (2010). Applying cellular automata and DEVS methodologies to digital games. *Simulation and Gaming*. 41(6): 796-823.
Published,
Refereed?: Yes

54. Wainer G, Liu Q*. (2009). Tools for graphical specification and visualization of DEVS models. Simulation: Transaction of the Society for Modeling and Simulation International. 85(3): 131-158.
Published,
Refereed?: Yes
55. Wainer G, Al-Zoubi K*, Madhoun R*. (2008). Distributed simulation of DEVS and Cell-DEVS models in CD++ using Web-Services. Simulation Modelling Practice and Theory. 16(9): 1266-1292.
Published,
Refereed?: Yes
56. U Farooq*, G Wainer, B Balya*. (2007). DEVS modeling of mobile wireless ad hoc networks. Simulation Modeling, Practice and Theory. Elsevier.15(3): 285-314.
Published,
57. C Zhang*, A Hammad, T Zayed, G Wainer. (2007). Cell-based representation and analysis of spatial resources in construction simulation. Journal of Automation in Construction. Elsevier.16(4): 436-448.
Published,
- [58.](#) Q Liu* G Wainer. (2007). Parallel Environment for DEVS and Cell-DEVS Models. Simulation: Transactions of the Society for Modeling and Simulation International. 83(6): 449--471.
Published,
- [59.](#) S Jafer*, G Wainer. (2007). Parallel Algorithms for Cellular Models Simulation. Parallel Processing Letters. 17(3): 263--285.
Published,
- [60.](#) G Wainer, A Davidson*. (2007). Defining a Traffic Modeling Language Using Cellular Discrete-Event Abstractions. J. Cellular Automata. 2(4): 291--343.
Published,
- [61.](#) G Wainer. (2007). Developing a software toolkit for urban traffic modeling. Softw., Pract. Exper.37(13): 1377--1404. ,
- [62.](#) H Saadawi*, G Wainer. (2007). Modeling physical systems using finite element Cell-DEVS. Simulation Modelling Practice and Theory. 15(10): 1268--1291. ,
- [63.](#) G Wainer. (2006). Applying Cell-DEVS Methodology for Modeling the Environment. Simulation: Transactions of the Society for Modeling and Simulation International. 82(10): 635--660. ,
64. G Wainer, E Glinsky*. (2006). Advanced Parallel simulation techniques for Cell-DEVS models. Simulation News Europe. EUROSIM. Special Issue on Parallel and Distributed Simulation.16(2): 25-36.
Published,
65. G Wainer. (2006). ATLAS: A language to specify traffic models using Cell-DEVS. Simulation Modeling, Practice and Theory. Elsevier. 14(3): 317-337. ,
66. A Muzy, E Innocenti, A Aiello, JF Santucci, G Wainer. (2005). Specification of Discrete Event Models for Fire Spreading. SIMULATION: Transactions of the Society for Modeling and Simulation International. 81(2)
Published,
- [67.](#) G Wainer, N Giambiasi. (2005). Cell-DEVS/GDEVs for Complex Continuous Systems. Simulation: Transactions of the Society for Modeling and Simulation International. 81(2): 137--151. ,
68. 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,
- [69.](#) G Wainer, W Chen*. (2003). A Framework for Remote Execution and Visualization of Cell-DEVS Models. Simulation: : Transactions of the Society for Modeling and Simulation International. 79(11): 626--647. ,
- [70.](#) G Wainer, N Giambiasi. (2002). N-dimensional Cell-DEVS Models. Discrete Event Dynamic Systems: : Theory and Applications, Kluwer. 12(2): 135--157. ,

71. G Wainer. (2002). CD++: a toolkit to develop DEVS models. *Software, Practice and Experience*. Wiley.32(3): 1261-1306.
Published,
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2. Wainer G. (2015). *Principles of Advanced Discrete Simulation*. ACM TOMACS, Transactions on Modeling and Computer Simulation.
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1. (2019). Applied Simulation and Optimization. Vol.3: Innovative Applications In Logistics, Industrial, and Aeronautical Practice. M. Mujica Mota, I. Flores, G. Wainer.
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Description / Contribution Value: Software Demo at SpringSim Demo Workshop
- [2.](#) *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>)

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Description / Contribution Value: Mobile App competition demo. Spring SimulationConference

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Conference Date: 2018/6
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Refereed?: Yes, Invited?: No
2. G. Wainer, *C. Ruiz, R. Castro. (2018). Building Partial Differential Equations Models Using Cell-DEVS. Winter Simulation Conference, Gothenburg, Sweden,
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10. 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
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11. *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
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12. J. Boi-Ukeme*, I. Oyelowo*, G. Wainer, N. Echechini*, 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
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14. 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
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21. 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
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22. 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
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27. 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,
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29. 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,
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Paper
In Press
Refereed?: Yes, Invited?: Yes
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33. 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
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34. 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
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35. 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
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40. 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
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51. 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
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54. 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
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55. 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
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59. 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
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63. 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
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64. 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
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66. 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
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67. 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
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68. 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
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69. 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
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78. Taylor S J E, Fujimoto R, Page E H, Fishwick P A, Uhrmacher A M, Wainer G. (2012). Panel on Grand Challenges for Modeling and Simulation. Winter Simulation Conference 2012, Berlin, Germany,
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79. Davoust A*, Wainer G, Esfandiari B. (2012). DEVS Simulation of Peer-To-Peer File-Sharing. International Conference on High Performance Computing & Simulation (HPCS 2012), Madrid, Spain,
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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.
2. Improving Wireless Video Transmission in Cellular Networks using D2D Communication. Invention Disclosure filed for patenting. United States. IvD number P47111; EAB/Q-03:000055 Uen. 2015/10/31. Patent Status: Pending
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3. File Transfer by Mobile User Collaboration. United States. US Patent filed: PCT/IB2015/054524. World: 15733541.5 – 1213. 2015/05/01. Patent Status: Granted/Issued
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