

MICHAEL WEISS, M.Eng., Ph.D. (Computer Science)

Associate Professor, tenured
 Department of Systems and Computer Engineering
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RESEARCH INTERESTS

Open source business models
 Business ecosystems
 Technology entrepreneurship
 Software and business patterns
 Network science
 Requirements Engineering
 Agent-Based Modeling

INDUSTRIAL EXPERIENCE

Product development manager in the telecommunications industry
 Independent consultant in the software industry

EDUCATION

1993 Dr. rer. nat. (Ph.D.), Computer Science, University of Mannheim, Germany
 1989 Dipl.-Ing. (M.Eng.), Electrical Engineering and Information Technology,
 Technical University of Munich, Germany

EMPLOYMENT

2011-14 Graduate Advisor, Technology Innovation Management Program, Carleton
 2009-10 Director, Technology Innovation Management Program, Carleton
 2007- Associate Professor, Dept. of Systems and Computer Eng., Carleton
 2006-07 Associate Professor, School of Computer Science, Carleton
 2000-06 Assistant Professor, School of Computer Science, Carleton
 1997-99 Manager of Advanced Applications, Strategic Technology, Mitel Corp.
 1994-97 Senior Research Engineer, Strategic Technology, Mitel Corp.

RECENT PUBLICATIONS (6 YEARS OR LESS)

Books Edited

Benyoucef, M., Weiss, M., & Mili, H. (eds.), E-Technologies, Lecture Notes in Business Information Processing, LNBIP 209, Springer, 2015.
 Babin, G., Kropf, P., & Weiss, M. (eds.), E-Technologies: Innovation in an Open World, Lecture Notes in Business Information Processing, LNBIP 26, Springer, 2009.

Conference Proceedings Edited

- Weiss, M., & Avgeriou, P. (eds.), Proceedings of the European Conference on Pattern Languages of Programming (EuroPLoP), ACM, 2010.
- Kelly, A., & Weiss, M. (eds.), Proceedings of the European Conference on Pattern Languages of Programming (EuroPLoP), CEUR, 566, 2009.
- D'Andrea, V., Gangadharan, G.R., Ianella, R., & Weiss, M. (eds.), Proceedings of the International Workshop on Enabling Service Business Ecosystems (ESBE), CEUR, 530, 2009.

Refereed Journals

- Weiss, M., Sari, S., & Noori, N., Niche formation in the mashup ecosystem, *Technology Innovation Management Review*, May, 13-17, 2013.
- Noori, N., & Weiss, M., Going open: Does it mean giving away control?, *Technology Innovation Management Review*, January, 27-31, 2013.
- Pourshahid, A., Amyot, D., Shamsaei, A., Mussbacher, G., & Weiss, M., A systematic review and assessment of aspect-oriented methods applied to business process adaptation, *Journal of Software*, 7(8), Academy Publisher, August, 1816-1826, 2012.
- Bailetti, T., Bot, S., Duxbury, T., Hudson, D., McPhee, C., Muegge, S. M., Weiss, M., Wells, J., & Westerlund, M., An overview of four issues on technology entrepreneurship in the TIM Review, *Technology Innovation Management Review*, May, 28-34, 2012.
- Gangadharan, G.R., D'Andrea, V., De Paoli, S., & Weiss, M., Managing license compliance in free and open source software development, *Information Systems Frontiers*, Springer, April, 14(2), 143-154, 2012.
- Weiss, M., User frustrations as opportunities, *Open Source Business Resource (OSBR)*, April, 17-20, 2012.
- Daniel, F., Maristella, M., & Weiss, M., Next in mashup development: User-created apps on the web, *IT Professional*, 13(5), 22-29, 2011.
- Weiss, M., Control and diversity in company-led open source projects, *Open Source Business Resource (OSBR)*, April, 29-32, 2011.
- Weiss, M., Economics of software product development collectives, *Open Source Business Resource (OSBR)*, October, 13-18, 2011.
- Mawlood-Yunis, A.R., Weiss, M., & Santoro, N., A reference model for semantic peer-to-peer networks, *Journal of Data Semantics*, 15, 37-65, Springer, 2011.
- Gangadharan, G. R., D'Andrea, V., & Weiss, M., Free/open services (F/O-services), *IT Professional*, 12(6), 24-30, IEEE, 2010.
- Weiss, M., & Gangadharan, G.R., Modeling the mashup ecosystem: structure and growth, *R&D Management*, 40(1), 40-49, 2010.
- Mawlood-Yunis, A.R., Weiss, M., & Santoro, N., From P2P to reliable semantic P2P systems, *Peer-to-Peer Networking and Applications*, 3(4), 363-381, Springer, 2010.
- Pourshaid, A., Mussbacher, G., Amyot, D., Toward an aspect-oriented framework for business process improvement, *International Journal of Electronic Business*, 8(3), 233-259, Inderscience Publishers, 2010.
- Weiss, M., Keystone: Adjective or noun?, *Open Source Business Resource (OSBR)*, September, 6-8, 2010.

Pourshahid, A., Chen, P., Amyot, D., Forster, A.J., Ghanavati, S., Peyton, L., & Weiss, M., Business Process Management with the User Requirements Notation, *Electronic Commerce Research*, 9(4): 269-316, Springer, 2009.

Weiss, M., Mapping mashup ecosystems, *Open Source Business Resource (OSBR)*, April, 8-12, 2009.

Book Chapters

Pourshahid, A., Peyton, L., Ghanavati, S., Amyot, D., Chen, P., & Weiss, M., Model-based validation of business processes, *Business Enterprise, Process, and Technology Management: Models and Application*, Business Science Reference, IGI Global, 165-183, 2012.

Weiss, M., Resource Description Framework, in: Özsu, M., and Liu, L., *Encyclopedia of Database Systems*, Springer, 2009.

Weiss, M., XML Metadata Interchange, in: Özsu, M., and Liu, L., *Encyclopedia of Database Systems*, Springer, 2009.

Weiss, M., Patterns for Designing Agent-Based e-Business Systems, in: Lee, I., *Electronic Business: Concepts, Methodologies, Tools and Applications*, 2367-2388, IGI Global, 2009.

Refereed Conference Proceedings

Weiss, M., The business of open source: Missing patterns, *European Conference on Pattern Languages of Programs (EuroPLoP)*, 2015.

Weiss, M., & Bailetti, T., Value of open source projects: A case for open source cybersecurity, *ICE/IEEE International Technology Management Conference*, 2015.

Bailetti, T., Weiss, M., Muegge, S., & Westerlund, M., Lead to Win, *Good Practice Case Study*, University Industry Interaction Network (UIIN) Conference, 2014.

Weiss, M., & Noori, N., Enabling contributions in open source projects, *European Conference on Pattern Languages of Programs (EuroPLoP)*, ACM, 2013.

Pourshahid, A., Mussbacher, G., Amyot, D., & Weiss, M., Requirements for a modeling language to specify and match business process improvement patterns, *Workshop on Model-Driven Requirements Engineering (MoDRE)*, July, 10-19, IEEE, 2013.

Noori, N., & Weiss, M., Born globals in small ecosystems: A case study on Canadian Born Global IT startups, *Special papers section, DRUID*, 2013.

Weiss, M., Sari, S., & Noori, N., Niche formation in the mashup ecosystem, *International Conference on Software Business*, Springer, 2013.

Weiss, M., Creating customer value propositions for technology products, *European Conference on Pattern Languages of Programs (EuroPLoP)*, 2012.

Noori, N., & Weiss, M., Managing the quality of platform complements: The case of extensions in open source platforms, *ISPIM Conference*, 2012.

Huston, C., & Weiss, M., Gathering in digital spaces: Exploring topical communities on Twitter, *International Conference on Social Informatics (SocInfo)*, 320-323, LNCS 6984, Springer, 2011.

Weiss, M., Pay to play or requirements prioritization in collectives, *International Workshop on Requirements Patterns (RePa)*, *International Conference on Requirements Engineering*, 2011.

- Weiss, M., Economics of collectives, International Workshop on Quantitative Methods in Software Product Line Engineering (QMSPLE), International Software Product Line Conference (SPLC), 39, ACM, 2011.
- Weiss, M., Profiting even more from open source, European Conference on Pattern Languages of Programs (EuroPLoP), ACM, 2011.
- Weiss, M., Company-led open source, International Open and User Innovation Workshop (OUI), 2011.
- Cappiello, C., Daniel, F., Matera, M., Picozzi, M., & Weiss, M., Enabling end user development through mashups: Requirements, abstractions and innovation toolkits, International Symposium on End-User Development (IS-EUD), 9-24, LNCS, 6654, Springer, 2011.
- Sari, S., & Weiss, M., Diversity of the mashup ecosystem, International Conference on Web Information Systems (WEBIST), 2011.
- Huston, C., Benyoucef, M., & Weiss, M., Following the conversation: A more meaningful expression of engagement, International MCETECH Conference on e-Technologies (MCETECH), 199-210, Lecture Notes in Business Information Processing, 78, 2011.
- Weiss, M., & Sari, S., Evolution of the mashup ecosystem by copying, International Workshop on Web APIs and Services Mashups (Mashups), ACM, 2010.
- Weiss, M., Profiting from Open Source, European Conference on Pattern Languages of Programs (EuroPLoP), ACM, 2010.
- Weiss, M., Performance of Open Source Projects, European Conference on Pattern Languages of Programs (EuroPLoP), CEUR, 566, 2009.
- Birokou, A., & Weiss, M., Patterns 2.0: A Service for Searching Patterns, European Conference on Pattern Languages of Programs (EuroPLoP), CEUR, 566, 2009.
- Noori, N., & Weiss, M., Managing the Quality of Platform Extensions, International Workshop on Free/Libre Open Source Software (FLOSS), 2009.
- Milev, R., Muegge, S., & Weiss, M., Design Evolution of an Open Source Project Using an Improved Modularity Metric, International Conference on Open Source Systems (OSS), 20-33, IFIP/Springer, 2009.
- Pourshahid, A., Mussbacher, G., Amyot, D., & Weiss, M., An Aspect-Oriented Framework for Business Process Improvement, International MCETECH Conference on e-Technologies (MCETECH), 2009.
- Mawlood-Yunis, A., Weiss, M., & Santoro, N., A Reference Model for Semantic Peer-to-Peer Networks, International MCETECH Conference on e-Technologies (MCETECH), 2009.

Presentations

- Weiss, M., Escaping the echo chamber, Digital Self Workshop at the International MCETECH Conference on eTechnologies, Position Paper, 2015.
- Weiss, M., Opportunity discovery in new ventures through experimentation and collaboration. NITIM International Graduate Research School, Bergamo, 2014.
- Weiss, M., The business of open source. TIM Lecture Series, Ottawa, 2013.

Other (editorials, reports, ...)

- Weiss, M., TIM Lecture Series – The business of open source, Technology Innovation Management Review, January, 28-31, 2014.
- McPhee, C., & Weiss, M., Editorial: Technology evolution, May, 2013.
- Weiss, M., Editorial: The business of open source, Open Source Business Resource (OSBR), January, 2011.
- Weiss, M., Editorial: Open APIs, Open Source Business Resource (OSBR), April, 2009.

Patents

- Weiss, M., and Esfandiari, B., Caching mechanism to optimize a bidding process used to select resources and services, US 7676419, 2010.

RECENT EXTERNAL RESEARCH FUNDING

2007-11	NSERC	\$18,500
	Architectures for Software Composition	
2008-11	NSERC/CHRC	\$95,000 (17%)
	Performance management (PA: D. Amyot)	

RECENT SUPERVISIONS (COMPLETED)

2014	Ali Pourshahid (PhD)
	David Ker (MAsc)
	Atheer Almuammer (MEng)
	Chen Han (MEng)
	Fred Okolie (MEng)
	Ronald Amelunge (MEng)

RECENT THESES EXAMINED

2014	Afaf Alzarahni (MAsc)
	Derek Smith (MAsc)
	Mel Mezen (MAsc)
	Sixuan Wang (PhD Proposal)

RECENT TEACHING EVALUATIONS

2013/14	TIMG 5006	4.72
	TIMG 5104W	4.82
	TIMG 5104F	4.58
	TIMG 5103	4.46

RECENT SCHOLARY AND PROFESSIONAL ACTIVITIES

- 2016 Publicity chair for the International Conference on Web Engineering (ICWE 2016), June, Lugano, Switzerland
- 2015 Program co-chair of the International MCETECH Conference on e-Technologies (MCETECH 2015), May, Montreal, Canada

- 2015 Member of Program Committee for EuroPLoP, ICWE, ICWE Mashups Challenge, MCETECH, RePa
- 2014 Plenary Speaker at NITIM International Graduate Research School
- 2014- Faculty at NITIM International Graduate Research School
- 2014 Member of Program Committee for EuroPLoP, ICE-B, RePa, WEBIST, QUATIC, ICWE, ICWE Mashups Challenge, EURAM
- 2013 Guest Editor, Special Issue of Technology Innovation Management Review on Technology Evolution
- 2013 Track chair for the International Conference on Mobile Web Information Systems (MobiWIS 2013)
- 2013 Member of Program Committee for EuroPLoP, ICE-B, RePa, WEBIST, PUCSI-CAMS, MRI-BP
- 2012 Member of Program Committee for EuroPLoP, ICE-B, RePa, WEBIST, QUATIC, ICFI, Mashups
- 2011-14 Board of Directors, National Capital Freenet
- 2011 Guest Editor, Special Issue of Open Source Business Resource on Open Source Business
- 2011 Web chair for the European Conference on Pattern Languages of Programs (EuroPLoP 2011), July, Kloster Irsee, Germany
- 2010-12 Reviewer for the Calling Carleton Entrepreneurs initiative
- 2010 Program chair for the European Conference on Pattern Languages of Programs (EuroPLoP 2010), July, Kloster Irsee, Germany
- 2010 Co-organizer of the International Workshop on Enabling Service Business Ecosystems (ESBE 2009) at the Mediterranean Conference on Information Systems (MCIS 2009), Athens, Greece
- 2009- Faculty and reviewer for the Lead to Win program, a program for individuals and teams to launch new technology businesses in the Capital Region
- 2009 Guest Editor, Special Issue of Open Source Business Resource on Open APIs
- 2009 Received a Faculty Teaching Certificate from Carleton
- 2009 Recognized by the Social Planning Council of Ottawa for volunteer contributions to the Community Information and Mapping System project
- 2009 Conference chair for the European Conference on Pattern Languages of Programs (EuroPLoP 2009), July, Kloster Irsee, Germany
- 2009 Conference chair for the International MCETECH Conference on e-Technologies (MCETECH 2009), May, Ottawa, Canada
- 2007- Member of the Editorial Board of the TIM Review