

ROBERTO A. FLORES

Curriculum Vitae

Christopher Newport University
Department of Physics, Computer Science & Engineering
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EDUCATION

- 1997-2002 Ph.D. in Computer Science (agent based systems)
University of Calgary, Canada. Advisor: Dr. Robert C. Kremer
- Thesis:** *"Modelling Agent Conversations for Action: Developing a formal model for agent interaction protocols using commitments."*
- Abstract:** Conversations are sequences of messages exchanged between interacting agents. For conversations to be meaningful, agents ought to follow conversational principles governing the exchange of messages at any point in a conversation. These principles must be defined in publicly verifiable terms (if they are to be used in open environments) and must allow the composition of flexible conversations (if they are to account for the context in which they occur). The main contribution of this thesis is to define a unified model for conversations for action that fulfills these requirements. The conversational principle in this model is the negotiation of shared social commitments, which entails the adoption and discard of obligations to act. This principle is encoded using conversation policies, which govern the form of conversations according to the observable state of interacting agents. The applicability of this model is shown through the modelling of two example conversations: one on the Contract Net Protocol, and the second on an electronic bookstore scenario.
- 1995-1997 M.Sc. in Computer Science (software engineering)
University of Calgary, Canada. Advisor: Dr. Brian R. Gaines
- Thesis:** *"Programming Distributed Collaboration Interaction through the WWW: Developing an Internet- & Web-enabled, multi-user Java Concept Mapping tool."*
- Abstract:** This Thesis presents the implementation of a client/server graphical concept mapping tool with support for asynchronous, multi-user & concurrent edition of diagrams over the Internet and the World Wide Web. This tool is composed of a server process, named jKSimapper Server, and two client systems: jKSimapper and jKSimapplet, which allow concept mapping edition as a stand-alone program or as a downloadable program embedded in a Web browser, respectively. These programs were implemented using the Java programming language. A class library was developed to build these programs. This library was designed as an abstract framework to develop systems supporting graphical diagrams, and was planned as an extensible vehicle to support concept maps with formal constraints. This Thesis also includes an overview of the issues required for downloadable code; a description of the characteristics of the Java language; and the lessons learned when constructing these applications.
- Awards:** First-Prize Award Winner, ACM/IBM Quest of Java '97.
- 1985-1990 B.Sc. in Computer Systems Engineering (ISC)
Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico.

RESEARCH INTERESTS

Areas: Multi-agent Systems, Software Engineering
Keywords: Software agents, Protocols, Social commitments, OO software testing

PROFESSIONAL EXPERIENCE

- 2010-Now Associate Professor of Computer Science (Tenured)
2004-2010 Assistant Professor of Computer Science
Christopher Newport University, Physics, Computer Science & Engineering
- 1990-1995 Software Designer & Programmer
Flores & Novelo, SCP

TEACHING EXPERIENCE

Christopher Newport University, Physics Computer Science & Engineering

- CPSC 480/501. Software Design & Development
- CPSC 425/525. Object Oriented Programming & Design
- CPSC 410. Operating Systems
- CPSC 360. Programming Language Concepts
- CPSC 280. Introduction to Software Engineering
- CPSC 270. Data & File Structures
- CPSC 250. Computers & Programming II (CS2 in Java)
- CPSC 231. Computers & Programming II (CS2 in C++)
- CPSC 150. Computers & Programming I (CS1)
- CPSC 110. Introduction to Computing

University of Calgary, Department of Computer Science

- CPSC 530. Artificial Intelligence (jointly taught with Dr. Robert C. Kremer)
- SENG 311. Principles of Software Engineering

RESEARCH EXPERIENCE

- 2011 Sabbatical
Visiting Drs. Robert C. Kremer & Frank Maurer
University of Calgary, Canada, Department of Computer Science.
- 2003-2004 Post-Doctoral Researcher
Advisor: Dr. Brahim Chaib-draa
Université Laval, Quebec, Canada, Department of Computer Science.
- 2002-2003 Post-Doctoral Researcher
Advisor: Dr. Cristiano Castelfranchi
Consiglio Nazionale delle Ricerche, Rome, Italy, Institute of Cognitive Sciences and Technologies.

PROJECTS

- 2021-Now Programming Multi-agent Systems
- 2013-Now Gooley: Programmatic JUnit Testing of Swing/JavaFX Applications
<https://github.com/robertoaflores/Gooley>
- 2011-2017 CASALite: Collaborative Agent System Architecture for Small Devices
- 2009-2015 WISE: Watershed Interdisciplinary Science Education

2008-2012 CNU BlueJ Formatter: Source Code Formatting for BlueJ
(no longer maintained) <http://cnublj.pcs.cnu.edu/>

GRANTS & AWARDS

2018 Faculty Development Grant, Christopher Newport University. Travel and lodging support to present paper at the Conference on Software Engineering Education and Training, Hawaii International Conference on System Sciences (HICSS-52). Value: US\$2,034

2009 Graduate Teaching Fellows in GK-12. National Science Foundation (NSF) "GK-12 Fellows: Linking Urban Water Quality with Science Education in the Chesapeake Watershed." US\$2,630,000 (estimated) award 0841295, Co-PI.

2007 Dean's Summer Grant, College of Liberal Arts & Sciences, Christopher Newport University. Updating the CPSC 150 laboratory manual to add object-oriented exercises, jUnit test and Web-CAT support. Value: US\$1,500

2005 Dean's Grant, College of Liberal Arts & Sciences, Christopher Newport University. One-class relief to design a student training program for the ACM programming contest. Value: US\$1,500

2002-2004 Post-Doctoral Fellowship (PDF), Natural Sciences and Engineering Research Council of Canada (NSERC) Value: CAN\$75,000.

2000-2001 Graduate Scholarship, Alberta Informatics Circle of Research Excellence (iCORE), Alberta, Canada. Value: CAN\$15,000.

1999-2001 Graduate Scholarship (PGS-B), Natural Sciences and Engineering Research Council of Canada (NSERC), Canada. Value: CAN\$38,200.

1997 ACM/IBM Quest of Java '97, Association for Computer Machinery (ACM) and International Business Machines (IBM), International Java programming contest, First-prize winner. Value: US\$3,500.

1995-1997 Graduate Scholarship, Consejo Nacional de Ciencia y Tecnologia (CONACYT), National Competition, Mexico. Value: US\$50,000.

STUDENT SUPERVISION

M.Sc. Students

- 2015 • Braxton McCraw "Establishing a Hybrid Lightweight Communicative Multi-agent Java Framework"
- 2014 • Mathew Schubert "Multi-Robot Search for Multiple Targets Using Memory"
- William Taylor "Crowdsourcing Scientific Research through GIS Mapping and Citizen Surveys"
- 2011 • Martin Press "Towards Dynamic Protocol Generation and Verification"
- William Hanson "Collaborative Rich Internet Applications in Geographic Information Systems: The GK-12 Watershed Interdisciplinary Science Education GIS System"

CNU Capstone & Independent Study Projects

- 2016 • Allen Conlon "Gooley for JavaFX (with Lambdas)"
- 2015 • Juan Vallejo & John Wesley-Hayhurst "Human-robot interfacing: Using NAO and Oculus Rift for video feedback and control"
- Amanda Lee "Robotically fetching arbitrary objects from a controlled environment: A practical experiment"
- 2012 • Mehdi Saddem "Refactoring CNUBlueJFormatter"
- Justin Ruger "Ultrasound Implementation in CASALite & Solarium"
- 2011 • James Klingenberg "Modified A* path finding for the efficient solving of mazes"
- 2010 • Justin Davis "SPEND: Solarium Platform Emulator Navigation Development for iRobot Create"
- 2009 • Michael Donnelly "Eclipse RCP development of a Civil Engineering application."
- Martin Press "Traffic merging control simulation."
- Davin Saverline "World of Warcraft Add-on."
- Eric Roberts "Summer Internship at TraderOnline.com."
- Justin Davis "Solarium Platform Emulator Navigation Development for iRobot Create"
- Timothy Wilda, (High School) Governor School for Science & Technology.
- William Hanson "A Study of Computing Languages and Web Development."
- Jonathan Gallagher "Introduction to Functional Programming and Type Theory."
- 2008 • Martin Press & Daniel Goodwin "PALASS: A Portable Application for a Location-Aware Social System."
- David Brear "Implementation of a Personalized, Graphical, User-driven, Search Engine System."
- 2006 • Quintin Mirick. "Experimental Test Cases in a Trust Simulation Environment."

Graduate Thesis Examiner

Christopher Newport University, Physics, Computer Science & Engineering

- 2019 • Christopher Adleson, M.Sc. "A Comparison of Computer-Vision-based State Estimation Methods for a 2-Dimensional Dynamical System"
- 2018 • Christopher Buck, M.Sc. "Building a Multi-Robot SLAM Framework"
- Richard Froliq, M.Sc. "A template-based test generator for Web-CAT assignments"
- Logan Bull, "A Study of Providing No-cost Short Programming Assessments in Blackboard"
- Timothy Giles, "Planning Footsteps of Humanoid Robots"
- 2017 • John Wesley McDonald Hayhurst, M.Sc. "Improving the behavioral synthesis process to create and end-to-end approach"
- 2016 • Thomas Mangin, M.Sc. "AR-Based Color Correction and Object Detection"
- 2013 • William Hardy, M.Sc. "WebWOLF: Automated Grading of Student Web Assignments"
- 2011 • Noah Ryan, M.Sc. "Robust Gene Expression Programming: Evolving Treeless Expression Trees"

- 2010 • Patrick Biron, M.Sc. "Using Advanced Tree Drawing Algorithms to Visualize Scene Graph Node Data."
- 2009 • Steve O. Smith, M.Sc. "Automated Generation of Randomized Java Programming Assignments from Abstract Descriptions."
- 2008 • Jeffrey A. Brown, M.Sc. "Application Of Grid Technology To Natural Language Processing For Performance Improvement."

University of Calgary, Department of Computer Science

- 2019 • Tyson Kendon, Ph.D. "The Task and Workslip Scheme for Personal Agent Systems."
- 2011 • Daniel S. Bidulock, M.Sc. "Deconstructing Agent Conversations - Establishing Conversations as the First-Order Agent Communication Mechanism."
- 2005 • Jason P. Heard, M.Sc. "Detecting Broken Social Commitments: An Implementation and Investigation."

PUBLICATIONS

Books

- Frank Dignum, Rogier van Eijk & Roberto A. Flores (Editors) (2007) "Agent Communication II: International Workshops on Agent Communication, AC 2005 and AC 2006 Utrecht, Netherlands, July 25, 2005 and Hakodate, Japan, May 9, 2006, Selected and Revised Papers", Lecture Notes in Artificial Intelligence, Volume 3859, January 2007, Springer Verlag.

Journal Articles

- Martin Press & Roberto A. Flores (2012) "Towards Flexible Conversation Protocol Generation and Verification: A Social Commitment Approach." In P. Isaias & M. Paprzycki (Eds.), IADIS International Journal on Computer Science and Information Systems, Volume 3, Number 6, pp. 53-69.
- Roberto A. Flores, Philippe Pasquier & Brahim Chaib-draa. (2007) "Conversational Semantics Sustained by Commitments." In F. Dignum & R. van Eijk (Eds.), Autonomous Agents and Multi-Agent Systems, Volume 14, Number 2, April 2007, Springer-Verlag, pp. 165-186.
- Roberto A. Flores & Robert C. Kremer. (2002) "To Commit or Not To Commit: Modelling Agent Conversations for Action." In B. Chaib-draa & F. Dignum (Eds.), Computational Intelligence, Special Issue on Agent Communication Languages, Blackwell Publishing, Volume 18, Number 2, May 2002, pp. 120-173.

Conference Papers (peer- reviewed)

- Roberto A. Flores (2019) "The Quest for a Practical Sophomore-Level Software Engineering Course" In Nancy Mead & Daniel Port (Eds.), Proceedings of the Conference on Software Engineering Education and Training, Hawaii International Conference on System Sciences (HICSS-52), Maui, HI, January 8-11, 2019. ISBN 978-0-9981331-2-6, pages 7654- 7661. URL <http://hdl.handle.net/10125/60203>

- Robert C. Kremer & Roberto A. Flores (2015) "Policies, Conversations, and Conversation Composition." In Denison Barbosa & Evangelos Milios (Eds.) *Advances in Artificial Intelligence (LNAI 9091)*, 28th Canadian Conference on Artificial Intelligence (2015 Canadian AI), Springer-Verlag, pp. 50-58, Halifax, NS, Canada, June 2-5, 2015.
- Braxton McCrow, Justin Ruger, Robert C. Kremer & Roberto A. Flores (2014) "Establishing a Lightweight Communicative Multiagent Java Framework". In *Proceedings of the 3rd International Conference on Intelligent Systems and Applications (INTELLI 2014)*, June 22-26, 2014. Seville, Spain.
- Martin Press & Roberto A. Flores (2011) "Towards Flexible Conversation Protocol Generation and Verification: A Social Commitment Approach." In A. Palma dos Reis (Ed.), *Proceedings of the IADIS International Conference on Intelligent Systems and Agents (ISA 2011)*, Rome, Italy, July 24-26, IADIS Press, pp. 35-42. [Outstanding Paper Award]
- Anton Riedl, Dali Wang, Costa Gerousis, Roberto A. Flores & David Doughty (2009) "A Robotics Platform for Capstone Projects in Computer Engineering and Computer Science." In Hamid R. Arabnia, Azita Bahrami & Victor A. Clincy (Eds.), 2009 *International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS '09)* hosted by 2009 World Congress in Computer Science, Computer Engineering & Applications (WorldComp 2009), Las Vegas, July 13-16, 2009, pp. 217-222.
- Philippe Pasquier, Roberto A. Flores & Brahim Chaib-draa. (2006) "An Ontology of Social Control Tools." In P. Stone & G. Weiss (Eds.), 5th *International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2006)*, Hakodate, Japan, May 8-12, 2006. ACM Press, pp. 1369-1371.
- Robert C. Kremer & Roberto A. Flores. (2005) "Using a Performative Subsumption Lattice to Support Commitment-based Conversations." In F. Dignum, V. Dignum, S. Koenig, S. Kraus, M.P. Singh & M. Wooldridge (Eds.), 4th *International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2005)*, Utrecht, The Netherlands, July 25-29, 2005. ACM Press, pp. 114-121.
- Roberto A. Flores, Philippe Pasquier & Brahim Chaib-draa. (2005) "A Layered Model for Message Semantics using Social Commitments." Poster in F. Dignum, V. Dignum, S. Koenig, S. Kraus, M.P. Singh & M. Wooldridge (Eds.), 4th *International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2005)*, Utrecht, The Netherlands, July 25-29, 2005. ACM Press, pp. 1323-1324.
- Roberto A. Flores & Robert C. Kremer. (2005) "Commitment-based Conversation Protocols." 4th *IASTED International Conference on Computational Intelligence (CI 2005)*, Calgary, Canada, July 4-6, 2005. pp. 147-152.
- Roberto A. Flores & Robert C. Kremer. (2004) "A Pragmatic Approach to Build Conversation Protocols using Social Commitments." Poster in N.R. Jennings, C. Sierra, L. Sonenberg & M. Tambe (Eds.), 3rd *International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2004)*, New York City, USA, July 19-23, 2004. ACM Press, pp. 1240-1241.
- Roberto A. Flores & Robert C. Kremer. (2004) "A Principled Modular Approach to Construct Flexible Conversation Protocols." In A.Y. Tawfik & S.D. Goodwin (Eds.), *Advances in Artificial Intelligence: 17th Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2004, Lecture Notes in Artificial*

- Intelligence, Volume 3060, Springer-Verlag. London, Ontario, Canada, May 17-19, 2004, pp. 1-15.
- Robert C. Kremer, Roberto A. Flores & C. La Fournie (2004) "A Performative Type Hierarchy and Other Considerations in the Design of the CASA Agent Communication Architecture." In F. Dignum (Ed.), *Advances in Agent Communication*, Lecture Notes in Artificial Intelligence, Volume 2922, Springer-Verlag, 2004, pp. 59-74.
 - Robert C. Kremer, Douglas H. Norrie, Roberto A. Flores & Weiming Shen. (2000) "An Infrastructure for Flexible, Modular, Multi-User Intelligent Interfaces." In IEEE International Conference on Systems, Man and Cybernetics (SMC 2000), Nashville, TN, October 8-11, 2000, pp. 739-744.
 - Fuhua Lin, Douglas H. Norrie, Robert C. Kremer & Roberto A. Flores. (2000) "Enabling Effective and Emergent Agent Conversations." Poster in C. Sierra, M. Gini & J.S. Rosenschein (Eds.), 4th International Conference on Autonomous Agents (Agents 2000), June 3-7, 2000, Barcelona, Spain, 2000, pp. 233-234.
 - Roberto A. Flores. (1997) "Java Concept Maps for the Learning Web." In T. Muldner & T.C. Reeves (Eds.), *World Conference on Educational Multimedia/Hypermedia and Educational Telecommunications (Ed-Media/Ed-Telecom '97)*, Calgary, Canada, June, 1997.

Workshop Papers (peer-reviewed)

- Martin Press, Daniel Goodwin & Roberto A. Flores. (2008) "PALASS: A Portable Application for a Location-Aware Social System." In R. Meersman, Z. Tari & P. Herrero (Eds.), 3rd International Workshop on Mobile and Networking Technologies for Social Applications (MONET'08), OnTheMove for Meaningful Internet Systems (OTM 2008), Lecture Notes in Computer Science (LNCS), Volume 5333, pp. 499-508, Springer-Verlag, Monterrey, Mexico, November 9-14, 2008.
- Roberto A. Flores, Philippe Pasquier & Brahim Chaib-draa. (2004) "Conversational Semantics with Social Commitments." In R. van Eijk, M-P. Huget & F. Dignum (Eds.), Workshop on Agent Communication (AC2004), Lecture Notes in Artificial Intelligence, Volume 3396, Springer-Verlag, 2005, pp. 18-32.
- Philippe Pasquier, Roberto A. Flores & Brahim Chaib-draa. (2004) "Modelling Flexible Social Commitments and their Enforcement." In M.-P. Gleizes, A. Omicini & F. Zambonelli (Eds.), 5th International Workshop: Engineering Societies in the Agents World (ESAW), Springer-Verlag, Lecture Notes in Artificial Intelligence, Volume 3451, Springer-Verlag, pp. 153-165, Toulouse, France, October 20-22, 2004.
- Roberto A. Flores & Philippe Pasquier. (2004) "Defining the scope of an introductory MAS course: A balancing act." Position statement in J. Denzinger, G.A. Kaminka, Y. Kitamura & R. Unland (Eds.), Workshop on Teaching Multiagent Systems, 3rd International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2004), New York City, July 19-23, 2004, p. 4.
- Roberto A. Flores & Robert C. Kremer. (2002) "A Model for Flexible Composition of Conversations: How a Simple Conversation got so Complicated." In M-P. Huget, F. Dignum & J.L. Koning (Eds.), 3rd Workshop on Agent Communication Languages and

- Conversation Policies, 1st International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2002), Bologna, Italy, July 15-19, 2002.
- Roberto A. Flores & Robert C. Kremer. (2001) "Bringing Coherence to Agent Conversations." In M.J. Wooldridge, P. Ciancarini & G. Weiss (Eds.), 2nd Workshop on Agent-Oriented Software Engineering (AOSE 2001), Lecture Notes in Computer Science, Volume 2222, Springer-Verlag, 2001, pp. 50-67.
 - Roberto A. Flores & Robert C. Kremer. (2001) "Formal Conversations for the Contract Net Protocol." In V. Marik, O. Stepankova, H. Krautwurmova, M. Luck (Eds.), 3rd European Agent Systems Summer School on Multi-Agent Systems (EASSS 2001), Lecture Notes in Artificial Intelligence, Volume 2322, Springer-Verlag, 2001, pp. 169-179.
 - Roberto A. Flores, Robert C. Kremer & Douglas H. Norrie (2000). "An Architecture for Modeling Internet-based Collaborative Agent Systems." In T. Wagner & O.F. Rana (Eds.), 1st International Workshop on Infrastructure for Agents, Multi-Agent Systems, and Scalable Multi-Agent Systems, Lecture Notes in Computer Science, Volume 1887, Springer-Verlag, 2000, pp. 56-63.
 - Fuhua Lin, Douglas H. Norrie, Roberto A. Flores & Robert C. Kremer. (2000) "Incorporating Conversation Managers into Multi-Agent Systems." In M. Greaves, F. Dignum, J. Bradshaw & B. Chaib-draa (Eds.), Workshop on Agent Communication and Languages, 4th International Conference on Autonomous Agents (Agents 2000), June 3-7, 2000, Barcelona, pp. 1-9.
 - Roberto A. Flores & Nick J.E. Wijnngaards. (1999) "Primitive Interaction Protocols for Agents in a Dynamic Environment." In B.R. Gaines, R.C. Kremer & M. Musen (Eds.), 12th Workshop on Knowledge Acquisition, Modeling and Management (KAW '99), Banff, Canada, Volume 1, pp. 3-2-1:3-2-20, October 16-21, 1999.
 - Roberto A. Flores. (1999) "Towards the Standardization of Multi-Agent System Architectures: An Overview." In L.D.S. Perry (Ed.), Crossroads, Special Issue on Intelligent Agents, Association for Computer Machinery (ACM), Issue 5.4, pp. 18-24, Summer 1999.
 - Roberto A. Flores, Pim van Leeuwen & Dickson Lukose. (1998) "Modeling Expertise using KADS and MODEL-ECS." In B.R. Gaines & M. Musen (Eds.), 11th Knowledge Acquisition for Knowledge-based Systems Workshop (KAW '98), Banff, Canada, Volume 1, pp. VKM-3:14, April 19-23, 1998.
 - Roberto A. Flores. (1996) "Distributed Concept Mapping Collaboration using Java." In B.R. Gaines & M. Musen (Eds.), 10th Knowledge Acquisition Workshop (KAW '96), Banff, Canada, Volume 2, pp. 64-1:64-7, November 9-14, 1996.

Other Publications (non-peer-reviewed)

- William Hanson, Roberto A. Flores, Geoffrey Klein, Michael Meyer, Lisa S. Webb & Gary Whiting (2011) "A Collaborative Rich Internet Application in Education: The GK-12 Watershed Interdisciplinary Science Education (WISE) System." In ESRI International User Conference, Session: "Web GIS in education: It's not just for desktops anymore", July 11-15, San Diego, CA, USA. Online (last accessed November 24, 2012): http://proceedings.esri.com/library/userconf/proc11/papers/3280_72.pdf
- Lisa S. Webb, Roberto A. Flores, Geoffrey Klein, Michael Meyer & Gary Whiting (2010) "Connecting Graduate Research to Undergraduate and Secondary Science

Education." Virginia Academy of Science, 88th Annual Meeting, May 20-22, 2010, Harrisonburg, VA, USA.

- Roberto A. Flores & Lynn Lambert. (2009) "CPSC 250 Laboratory Manual." Department of Physics, Computer Science & Engineering, Christopher Newport University, September, 2009. (Published online)
- Roberto A. Flores. (2008) "CPSC 150 Laboratory Manual: A Practical Approach to BlueJ, JUnit & WebCAT." Department of Physics, Computer Science & Engineering, Christopher Newport University, January, 2008.
- Michele D. Jacobson, Robert C. Kremer & Roberto A. Flores. (1999) "On-line testing and grading: WebCT in Computer Science." In *New Currents in Teaching and Technology*, University of Calgary, Volume 6:3, April 1999.

SERVICE

1. Research

Program Committees

- International Conference on Agents and Artificial Intelligence (ICAART) 2009-Now
- 7th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS '08)
- 4th International Workshop on Agents and Web Services in Distributed Environments (AWeSOMe'08)
- Conference on Complex Open Distributed Systems (CODS'2007), Track on Open Dynamic Multi-Agent Systems.
- International Central and Eastern European Conference on Multi-Agent Systems (CEEMAS '03, '05, '07)

Organizer

- AAMAS Workshop on Agent Communication (AC '05, '06)
Co-organized with Rogier van Eijk (Utrecht University, The Netherlands) & Marc-Philippe Huget (University of Savoie, France).

Local Organizing Committees

- International Conference on Knowledge Capture (K-CAP 2003) Student Volunteers' Coordinator.
- Knowledge Acquisition Workshop (KAW '99) Poster Session Coordinator.

Reviewer

- IEEE Transactions on Computers.
- IEEE Transactions on Knowledge and Data Engineering.
- IEEE Transactions on Systems, Man, and Cybernetics.
- Journal of Autonomous Agents and Multi-Agent Systems.
- Journal of Applied Intelligence.
- International Journal of Cooperative Information Systems.
- International Journal of Agent-Oriented Software Engineering.
- International Journal of Semantic Web and Information Systems.
- PHILOSOPHIA—Philosophical Quarterly of Israel (Journal).

- Web Intelligence and Agent Systems: An International Journal (WIAS)
- Workshops on Agent Communication.
- Pacific Rim International Workshop on Multi-Agents.
- Knowledge Acquisition Workshops.
- Revista Iberoamericana de Computación y Sistemas

2. University

Academic Affairs Committees

- Faculty Senate 2017-Now (Member, Executive committee)
- Faculty Grievance and Hearing Committee, 2016-Now (Member, Chair)
- University Assessment Committee (UAC) 2012-2017 (Member)
- Undergraduate Degrees Committee (UDC) 2008-09 (Member), 2010-11 (Vice-Chair)
- Library Advisory Committee (LAC) 2005 (Member), 2006 (Vice-Chair), 2007-09 (Chair)

Administrative Committees

- Intellectual Property Committee (IPC) 2017-Now
- Parking Advisory/Appeals Committee 2008-2015 (Member)

University Judicial System Committees

- University Committee on Student Discipline (UCSD) 2006-09 (Member)

Faculty Evaluation Committees

- Peer review, Physics, Computer Science & Engineering, 2006-07, 2013-Now (Member)
- Peer review, History, 2007 (Member)
- Peer review, Fine Arts and Art History, 2005-06 (Member)
- Peer review, Modern & Classical Languages & Literatures, 2005 (Member)
- Peer review, Music, 2005 (Member)

Hiring Committees

- Search committee (Faculty) Physics, Computer Science & Engineering, 2015-2020 (Member)
- Search committee (Faculty) Physics, Computer Science & Engineering, 2014 (Chair)
- Search committee (Developer) IT Services, 2008 (Member)
- Search committee (Faculty), Modern & Classical Languages & Literatures, 2005 (Member)

3. Department

- Computer Science Program Committee, 2004-14 (Member), 2014-Now (Director)
- Web Site Committee (ad hoc), 2004-now (Member)
- Mid-Atlantic ICPC Collegiate Programming Contest, 2005-2012 (Coach), 2012-Now (Site Director)

MEMBERSHIPS

- Association for Computing Machinery (ACM), 1997-Now (Member)

- Institute of Electrical and Electronics Engineers (IEEE) 2020-Now (Member)
- Upsilon Pi Epsilon (UPE), 2015-Now (Faculty Member)

EXTRA-CURRICULAR VOLUNTEERING

1991-2000 Member of the Frente Cívico Familiar, in Merida, Mexico. This NGO civic group, affiliated to the national Alianza Cívica, promoted citizen participation in elections through awareness campaigns, observer networks, and statistical analysis of trends in the media's coverage of political candidates. During the presidential elections in 1994 and 2000, I was responsible for the deployment of international observers in rural Yucatan, the former year in collaboration with observers from the United Nations.

1998-2001 Researched, compiled and posted online academic studies and newspaper articles supporting the preservation of X'cachel (a beach in the Mayan Riviera, Mexico), which is a known turtle nesting site. This work contributed to the effort of multiple national and international environmental groups, and led to a decree by the Mexican federal government in 2001 halting all touristic development in X'cachel. (Web page no longer maintained) <http://pages.cpsc.ucalgary.ca/~robertof/xcachel/>

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