

July 2021

## Curriculum Vitæ

*Enrico Pontelli*

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*College of Arts & Sciences  
New Mexico State University  
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### Areas of Interest

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- **Knowledge Representation and Reasoning:** reasoning about actions and change; reasoning with preferences; planning; multi-agent systems.
- **Bioinformatics:** protein structure determination; analysis of density maps; evolutionary informatics.
- **Parallel and Distributed Processing:** High Performance Logic and Constraint Programming Systems; Automatic Parallelization and Parallelizing Compilers; Dynamic Scheduling; Applications.
- **Computer Science and STEM Education:** K-12 interventions; Computational Thinking in the curricula; broadening participation in computing.
- **Assistive Technologies:** Universal Accessibility of the World Wide Web; Software Technologies for the Visually Impaired; Universal accessibility of Mathematical content.
- **Programming Languages:** Declarative Programming Languages; Logic Programming; Sequential and Parallel Implementation Technology; Domain Specific Languages; Constraint Programming and Constraint Solving; Compile Time Analysis.
- **Computational Aspects of Programming Languages Implementation:** Computational Complexity Results; Dynamic Data Structures.
- **Computable Set Theory:** Constraint Solving over Sets, Multisets, and Aggregates; Unification and Disunification in Set Theory; Programming with Sets.

### Education

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**Ph.D.** Computer Science, August 1997, New Mexico State University. Advisor: Dr. Gopal Gupta. **Thesis:** *Efficient Parallel Execution of Prolog Programs.*

**M.S.** Computer Science, July 1992, University of Houston. Advisor: Dr. Louis Slothouber. **Thesis:** *Logic Programming with Sets: theory and implementation.*

**Laurea** Computer Science, March 1991, University of Udine, Italy. Advisors: Dr. Gianfranco Rossi and Dr. Eugenio Omodeo. **Thesis:** *Logic Programming with Sets (in Italian).*

## Professional Experience

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3/16 - present: Dean, College of Arts & Sciences,  
New Mexico State University.

1/15 - present: Regents Professor, Dept. Computer Science,  
New Mexico State University.

7/14 - 3/16: Associate Dean, College of Arts & Sciences,  
New Mexico State University.

1/09 - 6/14: Department Head, Dept. Computer Science,  
New Mexico State University.

8/05 - 1/14: Full Professor, Dept. Computer Science,  
New Mexico State University.

8/02 - 7/05: Associate Professor, Dept. Computer Science,  
New Mexico State University.

8/97 - 7/02: Assistant Professor, Dept. Computer Science,  
New Mexico State University.

1/96 - 8/96: Software Specialist, Project ERAD,  
Dept. of Computer Science, NMSU.

1/96 - 5/96: Lecturer, Department of Computer Science,  
University of Texas at El Paso.

8/92 - 8/97: Research Assistant, Department of Computer Science, NMSU.

1/92 - 7/92: Research Assistant, Department of Computer Science,  
University of Houston.

8/90 - 3/91: Consultant, ENIData and University of Bologna,  
Esprit Project AXL, Bologna (Italy).

## Administrative Experience

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### Administrative Appointments

- Dean, College of Arts and Sciences, NMSU, 3/16-present.
- Associate Dean for Resources and Strategic Planning, College of Arts and Sciences, NMSU, 7/14-3/16.

- Department Head, Computer Science, NMSU, 1/09-6/14.
- Director of Graduate Studies, Computer Science, NMSU, 2000-2008.
- Founding Director, Interdisciplinary Center for Research Excellence in Design of Intelligent Technologies for Smartgrids (iCREDITS), 2014-present.
- Director, Center of Research in Computational Biology and Bioinformatics, NMSU, 2008-2012.
- New Mexico Computer Science Teachers Association, Vice-Chair: 2015-2019; Treasurer: 2020-present.
- Vice-Chair, ACM Special Interest Group on Computers and Accessibility, 2009-2012.
- Director, Knowledge representation, Logic, and Advanced Programming laboratory, 2001-present.
- Leadership Committee Member, Computing Alliance of Hispanic Serving Institutions (CAHSI), 2009-present.
- Lead, Southwest Region, CAHSI INCLUDES Alliance, 2019-present.

## Summary of Recent Administrative Accomplishments

- Devasthali Hall: Successfully promoted GO-Bond (e.g., working with community groups and other stakeholders), facilitated activities leading to the launch and completion of the construction project.
- Curricula: led interdisciplinary teams that led to two proposals for new degree programs (Graduate Degree in Data Analytics, Undergraduate degree in cybersecurity); guided effort to revise requirements for the Bachelor of Applied Studies.
- Retention: Designed the Aggie JumpStart program; fundraised to secure funding for initial pilots.
- Development: surpassed annual college fundraising expectations for the last three years; launched fundraising for the Sustaining Academic Progress initiative.
- Research: developed and launched the Discovery Scholars Program, an interdisciplinary College-wide research experience for undergraduates program.

## Awards and Honors

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- NSF CISE Advisory Committee, 2021.
- Benjamin Dasher Best Paper Award, “Exploring the Relationships between Computational Thinking and English Literature in K-12 Curricula,” (with Natasha Nesiba and Timothy Staley), IEEE Frontiers in Education, 2015.

- Regents Professorship, 2014.
- Distinguished Achievement Professorship, 2012.
- Best Student Paper Award, “Constraint Programming in Community-based Gene Regulatory Network Inference,” (with F. Fioretto), 11th International Conference on Computational Methods in Systems Biology, 2013.
- New Mexico State University Research Accomplishment Award, 2012.
- New Mexico State University, College of Arts & Sciences, Exemplary Department Head Award, 2012.
- New Mexico State University, 2012 S.P. and Margaret Manasse Scholar.
- Best Student Paper Award, “On Computing Conformant Plans Using Classical Planners”, (with K. Nguyen, V. Tran and T. Son), International Conference on Automated Planning and Scheduling, 2012.
- NMSU, College of Arts & Sciences, Outstanding Accomplishments in the area of Outreach, 2011.
- Senior Member, Association for Computing Machinery, 2011.
- Best Paper Award, International Conference on Logic Programming, Edinburgh, Scotland, 2010.
- DAMP Conference Series Steering Committee member, 2010-2012.
- Winner (with V. Tran, K. Nguyen and T. Son) of the NOND Track of the 2008 International Planning Competition.
- ACM Service Award, 2005 and 2007.
- ASSETS Conference Series Steering Committee member, 2007-2012.
- Elected Member of the Executive Committee, Italian Association for Logic Programming (GULP), 2006–2014.
- 2006 Arts & Sciences Faculty Outstanding Achievement Award.
- 2006 NMSU Presidential Travel Allocation Award.
- 2005 NMSU University Research Council Award for Creative Scholarly Activities.
- Elected Member of the Executive Committee of the International Association of Logic Programming, 2005-2009.
- 2003, Best Paper Award, ACM Conference on Universal Usability, Vancouver, 2003.
- 2001 Donald Roush Award for Excellence in Teaching, NMSU.
- 1994, 1995, 1996 New Mexico State University Student Research Project Award.

- 1993-94 and 1994-95 Phillips Petroleum Fellowship in Parallel Computing.
- 1994 Phillips Petroleum Graduate Research Award.
- E.E.C. Fellowship to complete a Master Program at University of Houston, University of Udine, August 1991 - July 1992.
- ‘Diritto di Stampa’ (assigned to recognize outstanding thesis works), University of Udine, March 1991.
- Special Mention (outstanding academic performance—assigned to the top graduating student), University of Udine, March 1991.
- “E. Rossi” fellowship for distinguished students (top student in the University in 1990) University of Udine, December 1990.

## Research Grants

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### Current Grants

- PI, “DEPICT - Engaging a Diverse Student Population in Computational Thinking through Creative Writing and Performances,” National Science Foundation, \$299,733, 01/22-12/23.
- Co-PI, “BPC-AE: An Extended CAHSI Alliance to Broaden Participation in Graduate Studies,” National Science Foundation, \$2,891,942, 10/21-09/26.
- PI, “iCREDITS Center of Research Excellence in Smartgrids Technologies, Phase II”, National Science Foundation CREST, \$5,000,000, 02/20-01/25.
- Co-PI, “Preparing Highly Qualified Students with Financial Need for Careers in Computing and Cyber-Security through Evidence-Based Educational Practices,” National Science Foundation, \$3,969,000, 10/18-09/23.
- NMSU Lead, “Towards a SMART Grid - Sustainable, Modular, Adaptive, Resilient and Transactive,” National Science Foundation EPSCoR Track I, \$20,000,000 (NMSU Share: \$7,316,925), 09/01/18-08/31/23.
- NMSU Lead, “CAHSI INCLUDES Alliance,” National Science Foundation INCLUDES Program, \$9,500,000 (NMSU Share, \$1,300,000), 09/01/18-08/31/23.

### Past Research Grants

- PI, “An open infrastructure to disseminate phylogenetic knowledge,” NSF ABI, \$316,961, 7/15-5/20.
- PI, “Trackable Interactive Multimodal Manipulatives: Towards a Tangible Learning Environment for the Blind,” NSF GARDE, \$264,165, 10/14-12/19.

- PI, “YO-GUTC: Young Women Growing Up Thinking Computationally”, National Science Foundation, \$380,000, 01/15-12/20.
- PI, “iCREDITS: interdisciplinary Center of Research Excellence in Intelligent Technologies for Smartgrids”, National Science Foundation (CREST), \$5,000,000, 02/01/2014-01/31/2020.
- PI, “EPSCoR Outreach Subcontract, ” New Mexico NSF EPSCoR RII-4 Track 1, \$280,000, 4/16-11/18.
- Co-PI, “CAHSI INCLUDES Pilot,” National Science Foundation, \$200,000, 08/16-11/18.
- Co-PI, (PI: Ann Gates, UTEP), “BPC-AE: Computing Alliance of Hispanic-Serving Institutions,” NSF BPC, \$3,000,000, 8/10-8/18.
- Co-PI, (PI: Jonathan Cook), “Graduate Assistants in Areas of National Need”, Department of Education, \$339,000, 9/12-8/16.
- Co-PI, (PI: Jonathan Cook), “Acquisition of an Instrument for Research in Irregularly Parallel Big Data Computation,” National Science Foundation (MRI), \$215,000, 09/13-08/17.
- PI, (Co-PIs: Susan Brown), “Computing in Context: Advancing Computational Thinking in the Classroom through Applied Computational Research,” NSF GK-12, \$2,400,000, 2/1/10–6/16.
- Co-PI, (PI: Arlin Stoltzfus, NIST), “Data Interoperation Working Group”, National Evolutionary Synthesis Center, \$30,000, 4/11-6/15.
- PI, (Co-PIs: I. Pivkina, K. Villaverde), “Empowering Southern New Mexico Women in Computing”, NSF BPC, \$619,000, 9/08–5/13.
- PI, (Co-PIs: S. Tran, O. Ma, D. Simon), “Analytical and Exploratory Approaches to Communicate Mathematics to Visually Impaired Students”, NSF RAPD, \$240,000, 9/08–5/13.
- PI, “Protein Structure Prediction for Virus Particles”, Army High Performance Computing Center, \$220,000, 1/10-12/11.
- Co-PI, (PI: S. Tran), “Approximation Based Reasoning and Planning”, NSF IIS, \$340,000, 9/08–8/12.
- PI, (Co-PIs: D. Ranjan, M. Song, B. Milligan) “CREST: Center of Research Excellence in Bioinformatics and Computational Biology”, NSF CREST, \$4,500,000, 9/04–7/11.
- Co-PI, (PI: C. Gonazales, Co-PI: C. Jeffery) “Establishing a Virtual Community for Computer Science in New Mexico”, National Science Foundation, ATE Program, \$840,000, 9/04–8/08.

- PI, (Co-PIs: R. Hartley, D. Ranjan, S. Tran, H. Leung) “Frameworks for the Development of Scalable and Distributed Knowledge-based Systems”, Minority Institution Infrastructure, NSF, \$1,500,000, 2002/2009.
- PI, (Co-PIs: A. Stoltzfus, J. Thompson), Short-term Visit Grant, National Evolutionary Synthesis Center (NESCent), 2008.
- PI, (Co-PIs: I. Pivkina, V. Dahl, M. Hermenegildo), “Summer School in Constraint Logic Programming”, CRA-W/CDC, \$28,000, 2007-2008.
- PI, (Co-PIs: D. Ranjan, J. He, I. Pivkina, T.C. Son) “Enhancing Participation of High-School Women to Computer Science through Bioinformatics Training and Research”, NSF BPC, \$197,000, 4/1/2006–3/31/2008.
- Co-PI, (PI: J. He, Co-PI: D. Ranjan) “From Low Resolution Protein Structure to Near Atomic Resolution Structure”, NMSU/LANL MOU, \$122,000, 2005-2006.
- Co-PI, (PI: C. Jonsson (U. Alabama), Co-PI: D. Ranjan, S. Tran) “Collaborative Research: The Impact of Rapid Anthropogenic Land Cover Change in the Chaco Interior Atlantic Forest in Paraguay on Hantavirus Ecology”, NIH, \$186,748, 5/04–4/08.
- Co-PI, (PI: D. Ranjan) “Graduate Assistants in Areas of National Need”, Department of Education, \$200,000, 2003-2006.
- PI, “REU Supplement to MII Grant”, National Science Foundation, \$18,000, 2003-2007.
- Co-PI, (PI: B. Milligan, Co-PI: T.C.Son) “Phylogenetic Predictions of the Capabilities of Novel Bio-threat Agents”, LANL/NMSU MOU, \$130,000, 2005-2006.
- PI, (Co-PIs: T.C. Son, K. Villaverde, D. Ranjan) “Computing Support for the Next Generation Application-driven Declarative Programming Systems”, NSF, Computing Research Infrastructure, \$103,000, 8/1/05-7/31/07.
- PI, (Co-PIs; De. Ranjn, J. He) “Development of a Bioinformatics Module for ChemVC”, SBIR/STTR Supplement, Mesa Analytics Inc. \$150,000, 8/1/2006–7/31/2007.
- Co-PI (PI: A. Karshmer, Co-PIs: G. Gupta, K. Misienberger) “Development of a Tool to Enhance Communication between Blind and Sighted Mathematicians, Students, and Teachers”, Department of Education, \$423,000, 2001/05.
- Co-PI, (PI: R. Hartley) “Mobility in the Classroom”, Hewlett Packard, \$200,000, 2003-2004.
- Co-PI, (PI: J. Cook, Co-PI: E. Johnson) “Itanium 2 Grant Initiative”, Hewlett-Packard, \$60,000, 2003-2004.

- Co-PI, (PI: R. Hartley, 10 other Co-PIs) “Management of Dynamic and Irregular Parallelism in Symbolic and Scientific Computing”, Minority Institution Infrastructure, NSF, \$1,500,000, 1998/2004.
- PI, “Parallel and Distributed Constraint Programming”, CAREER Program, National Science Foundation, \$200,000, 1999/2004.
- Co-PI, (PI: D. Ranjan) “REU-Supplement, Data structures for advanced programming languages implementation”, NSF, \$12,000, 2002/04.
- Co-PI, (PI: B. Milligan; Co-PIs: D. Ranjan, C. Johnson) “Functional Bioinformatics of Hantavirus”, NIH SCORE, 2002/04.
- PI, (with D. Ranjan, G. Gupta, and B. Milligan) “Translator Technology for Bioinformatics Software Tools”, National Biotechnology Information Facility, \$90,000, 2000/2001.
- Co-PI, (PI: D. Ranjan; Co-PI: G. Gupta) “Dynamic Data Structures in Advanced Programming Languages Implementation”, National Science Foundation, \$215,000, 2000/2002.
- Co-PI, (PI: G. Gupta) “NSF-CNpQ: Implementation and Compilation of High-Performance Scalable Parallel Constraint Programming Systems”, National Science Foundation, \$140,000, 1999/2002.
- PI, (Co-PI: A. Karshmer, G. Gupta, and D. Gillan) “Non-Visual Browsing of the World-Wide Web: Tables, Frames, and Forms”, National Science Foundation, \$575,000, 1999/2002.
- PI, (with D. Ranjan, S. Tran, and K. Villaverde) “Parallel Logic and Constraint Programming with Applications to Planning and Web Accessibility”, National Science Foundation, Research Resources (equipment only), \$60,000, 2001/02.
- PI, (Co-PI: E. Johnson) “Execution and Performance Evaluation of Parallel Logic Programming on Itanium/McKinsley Platforms”, Hewlett Packard, \$91,000, 2002-2003.
- Co-PI, (PI: E.G. Omodeo), Travel Grant to Offer Seminars at the University of Verona and Udine, \$3,000, Summer 2000.
- PI, (Co-PI: G. Gupta) “WEB-KLIC: A concurrent language for Internet Programming”, AITEC Japan, \$12,000, 1998/99.
- Co-PI, (PI: A. Karshmer, Co-PI: G. Gupta) “An Efficient Concurrent Logic-based Framework for Symbolic and Internet Computing”, \$18,000, Fullbright, 1998/99.
- Co-PI, (PI: G. Gupta) “WEB-KLIC: A concurrent language for Internet Programming”, AITEC Japan, \$14,000, 1997/98.



- Co-PI, (PI: G. Gupta, Co-PI: J. Wiebe, D. Ranjan) “Parallel Constraint Logic Programming on Multiprocessor PCs”, Research Instrumentation, \$38,000, NSF, 1998/99.
- PI, “Internationalization Supplement Grant”, New Mexico State University, \$500, 1998.
- Co-PI, (PI: G. Gupta) “Internationalization Grant for Collaborations with Mexico”, New Mexico State University, \$500, 1998.
- PI, Minigrant, College of Arts and Science, New Mexico State University, \$600, 1998.

## Professional Activities

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### University and Department Service

- Vice-Chair, Human Resources Appeal Board, 2018-present.
- Director, Knowledge representation, Logic, and Advanced Programming (KLAP) laboratory, 2001-present.
- Director, iCREDITS Center for Smart Grid Technologies, NMSU, 2014-present.
- Director, CREST Center for Research Excellence in Bioinformatics and Computational Biology, 2008-2012.
- Member, NMSU Faculty Advisory Committee on Technology, 2013-2015.
- Member, NMSU Faculty Senate, 2011-2014.
- Member, NMSU University Budget Committee, 2012-2014, 2016-2017.
- Chair, Computer Science Faculty Search Committee, 2007-2009.
- Chair, College of Arts&Sciences, Faculty Affairs and Promotion & Tenure Committee, 2007-2009.
- Member, College of Arts&Sciences, Outstanding Faculty Achievement Award Committee, 2007.
- Member, College of Arts&Sciences Faculty Affairs and Promotion & Tenure Committee, 2005-2009.
- Member, Recruitment Committee for the Associate Dean of the College of Arts and Sciences, 2004.
- Member, NMSU University Research Council, 2004-2005
- Chair, Department Graduate Committee, 2004–2009

- Chair, Department Award Committee, 1999–2009
- Chair, Department Research Committee, 2002–2004
- Chair, Department Facilities Committee, 2009-2014

## **Outreach Initiatives**

- Vice-Chair and Treasurer, New Mexico Computer Science Teachers Association;
- Co-Leader, New Mexico Chapter, National Girls Collaborative Project, 2002-2004.
- Director, Pathways in Computer Science Program (2002–2008); the program led to a significant increase in retention throughout the gateway classes in the undergraduate Computer Science program, and an increase in transition from the undergraduate to the graduate program.
- Director, Young Women in Computing Program (2006–present): the program provides opportunities for K-16 women to participate in Computer Science training programs. The program has already served over 15,000 students.
- Director, CREST Bioinformatics outreach program (2004–2014): the program provides training opportunities in Computer Science and Bioinformatics to high school and community college students.
- Member, Leadership Team, Computing Alliance of Hispanic Serving Institutions (CAHSI), 2009-present.
- Director, 2008 Summer School in Logic Programming and Computational Logic: the school, supported by funds from NSF and from the Computing Research Association, was attended by 38 students from all over the US (MS and Doctoral students).
- Chair, Doctoral Consortium in Logic Programming (2005–2007): I have created this program, which has become an annual event. The DC in Logic Programming takes place each year, during the annual International Conference on Logic Programming, and it enables young researchers in logic programming to present their preliminary research work and receive mentoring from experts in the field.
- Chair, Doctoral Consortium in Assistive Technologies (2004).
- Co-Chair, Young Researchers Program, International Conference on Computers Helping People with Disabilities (ICCHP), 2008-2014.

## **Editorial Work**

- Editor-in-Chief (with Dr. Dovier), Newsletter of the Association of Logic Programming (over 1,300 members), 2003-present.
- Editorial Board Member, ACM Transactions on Accessible Computing.

- Editorial Board Member, Journal of Logic and Algebraic Methods in Programming (JLAMP).
- Editorial Board Member, Energies - Open Access Energy Research, Engineering and Policy Journal.
- Editorial Board Member, Artificial Intelligence Research (AIR)
- Editorial Board Member, Universal Access in the Information Society (UAIS)
- Area Editor for Software Engineering and Methodologies, Theory and Practice of Logic Programming (TLP)
- Guest Editor:
  - Journal of Functional and Logic Programming, Special Issue on Parallelism and Implementation Technology for Constraint Logic Programming, 1999.
  - Implementation of Logic and Constraint Logic Programming, Nova Science Publishers, 1999.
  - Journal of Functional and Logic Programming, Special Issue on Practical Aspects of Declarative Languages, 2001.
  - Journal of Behavior and Information Technology, Special Issue on Computers and Accessibility, 2006.
  - Theory and Practice of Logic Programming, Special Issues on International Conference on Logic Programming, 2011.
  - Theory and Practice of Logic Programming, Special Issue on Parallel and Distributed Logic Programming, 2017.
  - Theory and Practice of Logic Programming, Special Issue celebrating the 20<sup>th</sup> anniversary of the journal, 2019-2021.

## Conference/Workshops Chair

### Conference Chair

- Organizing Chair, Symposium on Practical Aspects of Declarative Languages, San Antonio, TX, 1999.
- Program and Conference Chair (with V. Santos Costa), Symposium on Practical Aspects of Declarative Languages, Boston, MA, 2000.
- Program Chair, ACM International Conference on Assistive Technologies, Baltimore, MD, 2005.
- General Chair, ACM International Conference on Computers and Accessibility (ASSETS), Tempe, AZ, 2007.
- Program Chair, International Conference on Logic Programming, 2008.
- Program Chair, Declarative Aspects of Multicore Programming, 2010.

- Program Chair, Symposium on Practical Aspects of Declarative Languages, Portland, OR, 2015.
- General Chair, International Conference on Logic Programming, Las Cruces, NM, 2019.

### **Workshop Chair**

- Logic Programming Week, Las Cruces, NM, 1993.
- Workshop on Parallel Logic Programming, Ithaca, NY, 1994;
- NATO Maple Meeting, Portland, OR, 1995.
- Workshop on Parallelism and Implementation Technology for (Constraint) Logic Programming Languages, Bonn, Germany, 1996;
- Workshop on Parallelism and Implementation Technology for (Constraint) Logic Programming Languages, Port Jefferson, NY, 1997.
- Workshop on Parallelism and Implementation Technology for (Constraint) Logic Programming Languages, Las Cruces, NM, 1999.
- Workshop on Parallelism and Implementation Technology for (Constraint) Logic Programming Languages, London, UK, 2000.
- CICLOPS 2001, Colloquium on Implementation of Constraint and LOGic Programming Systems, Cyprus, 2001.
- Co-chair, Workshop on Constraint Programming beyond Finite Domains, Sitges, Spain, 2005.
- Co-Chair, Colloquium on Implementation of Constraint Logic Programming Systems (CICLOPS), Seattle, 2006.
- Co-Chair, Workshop on Reasoning with Preferences, Seattle, 2006.
- Co-Chair, International Workshop on Constraint Programming and Decision Making, Lyon, France, 2010.
- Co-Chair, International Workshop on Logic Programming and Multiagent Systems, Lexington, KY, 2011.
- Workshop Chair, AAI Workshop on Artificial Intelligence in Smart Grids and Smart Buildings, 2016.
- Workshop Co-Chair, IJCAI Workshop on Knowledge-Based Techniques for Problem Solving and Reasoning (KnowProS), 2016.
- Workshop Chair, AAI Workshop on Artificial Intelligence in Smart Grids and Smart Buildings, 2017.

## Others

- Member of the organizing committee of the APPIA/GULP/PRODE Joint Conference on Declarative Programming, 1997.
- Workshops Chair and Coordinator, International Conference on Logic Programming, Las Cruces, NM, 1999.
- Co-organizer, First Summer School on Constraint Logic Programming, Las Cruces, NM 1999.
- Publicity Chair, International Conference on Tools with AI, Dallas, TX, 2001.
- Co-Organizer: Second Summer School on Constraint Logic Programming, Dallas, June 2004.
- Doctoral Consortium Chair, International Conference on Assistive Technologies, ACM, Atlanta, 2004.
- Doctoral Consortium Chair, International Conference on Logic Programming, Barcelona, Spain, 2005.
- Thematic Session Chair & Organizer: Non-visual Accessibility of the Web, HCI International 2005, Las Vegas, 2005.
- Doctoral Consortium Chair, International Conference on Logic Programming, Seattle, USA, 2006.
- Doctoral Consortium Chair, International Conference on Logic Programming, Porto, Portugal, 2007.
- Young Researchers Consortium, Co-Chair (with P. Blenkhorn), International Conference on Computers Helping People with Special Needs (ICCHP), Linz, Austria, 2008.
- Director, Third International Summer School on Logic Programming and Computational Logic, Las Cruces, NM, July 2008.
- Young Researchers Consortium, Co-Chair (with D. Archambault), International Conference on Computers Helping People (ICCHP), Vienna, Austria, 2010.
- Young Researchers Consortium, Co-Chair (with D. Archambault), International Conference on Computers Helping People (ICCHP), Linz, Austria, 2012.
- Young Researchers Consortium, Co-Chair (with D. Archambault), International Conference on Computers Helping People (ICCHP), Linz, Austria, 2014.
- Young Researchers Consortium, Co-Chair (with D. Archambault), International Conference on Computers Helping People (ICCHP), Linz, Austria, 2016.
- Mentoring Chair, International Conference on Computers and Accessibility (ASSETS), 2012.

- Workshop Chair, International Conference on Logic Programming, 2017.
- Track Chair, Bioinformatics, International Conference on Principles and Practice of Constraint Programming, 2017.

## Reviewing and Refereeing Work

### Site Visitor

- Graduate Program Review Team, University of Texas at San Antonio, 2008.
- Graduate Program Review Team, Texas A&M University, Corpus Christi, 2015.
- Board of Advisors, Department of Computer Science, University of Texas at El Paso, 2017.
- Board of Advisors, Department of Computer Science, University of New Mexico, 2019.

### Invited Talks

- Universidad Politecnica de Madrid, Spain (1993)
- University of Texas at El Paso (1995, 1996)
- University of Udine (1991, 1995, 2000)
- University of Verona (2000)
- Ohio University (1997)
- Texas Tech University (2001, 2006)
- First Summer School on Constraint Logic Programming (2000)
- COLOGNET Workshop on Computational Logic, Madrid (2002)
- Panelist, “Future of Logic Programming Languages”, Sitges, Spain (2005)
- SUNY Stony Brook (2005)
- University of Texas at Dallas (2006)
- Arizona State University (2006)
- University of Texas at El Paso (2006)
- University of Udine, Italy (2006)
- University of Porto, Portugal (2006)

- New Mexico State University (2007)
- International Workshop on Applications of Logic Programming in the Web, Semantic Web, and Semantic Web Services (ALPSWS2007), Porto (2007)
- Italian Conference on Computational Logic, Perugia, Italy (2008)
- Portland State University, Portland, OR (2008)
- Third Summer School on Logic Programming and Computational Logic (2008)
- @Science Conference on Science and Accessibility, Milan, Italy (2008)
- Workshop on Constraint Programming and Decision Making, El Paso, TX (2008)
- Practical Aspects of Declarative Languages, Madrid (2010).
- Workshop on Logic Programming and Constructive Mathematics, Lexington, KY (2011).
- Workshop on Constraint Programming and Decision Making, El Paso, TX (2011).
- International Doctoral Consortium on Logic Programming, Budapest, Hungary (2012).
- Logic Programming: Systems and Applications, Symposium, SUNY Stony Brook, NY (2012).
- Interdisciplinary Ph.D. Spring School, University of Udine, Italy (2013).
- NSF Workshop on High-Level Programming Models for Parallelism, Washington, DC (2013).
- CAHSI Summit, San Juan, Puerto Rico (2015).
- Summer School on Constraint and Logic Programming, Genova, Italy (2015).
- Winter School on Logic Programming and Bioinformatics, Udine, Italy (2015).
- Tutorial, Pacific-Rim Conference on Artificial Intelligence, Phuket, Thailand (2016).
- Tutorial, International Conference on Automated Planning and Scheduling, Pittsburgh (2017).
- Invited Speaker, International Conference on Logic Programming, Melbourne, Australia (2017).
- Tutorial, Italian National Conference on Computational Logic, Trieste, Italy (2019).
- Special Speakers Series, University of North Texas (2019)

## Miscellaneous

- External Proposal Reviewer, Fund for Scientific Research, Belgium (2017-present).
- External Proposal Reviewer, Research Foundation Flanders, 2011, 2012, 2013.
- Panel Member, Italian Medicine Agency (AIFA), 2015.
- Panel Member, Italian Ministry of Health, 2011-2020.
- Consultant for the CollegeBoard review of the new AP Computer Science exam, 2013.
- Invited participant, NSF Ideas Lab on Big Data in Learning, Atlanta, GA, 2013.
- Invited participant, NSF Workshop on High Level Programming Models for Parallelism, Arlington, VA, 2013.
- Invited participant, workshop on mathematics and accessibility, Paris, 2008.
- Nomination Committee Chair, Impact Award, ACM SIGACCESS, 2008.
- Panel member, Panel on Multi-core Architectures and Declarative Programming Languages, at Colloquium on Implementation of Constraint Logic Programming Systems (CICLOPS), Porto, 2007.
- Panel member, National Science Foundation Workshop on Future of the Human-Computer Interaction Program, 2006.
- Invited Participant, Google Faculty Summit, 2006.
- Nominating Committee Chair, ACM SIGACCESS Officers Elections, 2006.
- Panel member, “Future of Logic Programming Language”, Sitges, Spain, 2005.
- External Collaborator, MURST Project “Integration of Constraint Solvers for Sets and Finite Domains”, University of Parma, Italy, 2003-2007.
- Invited Participant, NSF/ICOT workshop on Parallel Logic Programming, Eugene, Oregon, 1994.
- Invited Speaker, First Shell Workshop on Logic Programming, Actions, and Non-monotonic Reasoning, 1995.
- Member of the IGroup UMA, an international organization aimed at promoting the development of tools to improve accessibility of mathematics for visually impaired individuals.



## Professional Affiliations

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- Association for Computing Machinery
- Association for Logic Programming
- ACM Special Interest Group in Accessibility (SIGACCESS)
- ACM Computer Science Teachers Association

## Recent Collaborators

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- Dominique Archambault (Marie and Pierre Curie University, France)
- Marcello Balduccini (Drexel University)
- Chitta Baral (Arizona State University, USA)
- Mohsen Beheshti (California State University Dominguez Hills, USA)
- Susan Brown (NMSU)
- Mats Carlsson (Swedish Institute for Computer Science, Sweden)
- Manuel Carro (Politecnica de Madrid, Spain)
- Alessandro dal Palù (University of Parma, Italy)
- Agostino Dovier (University of Udine, Italy)
- Donal Fitzpatrick (Dublin City University, Ireland)
- Andrea Formisano (University of Perugia, Italy)
- Ann Gates (University of Texas at El Paso, USA)
- Gregory Gelfond (University of Nebraska at Omaha, USA)
- Michael Gelfond (Texas Tech University, USA)
- Gopal Gupta (University of Texas at Dallas, USA)
- Manuel Hermenegildo (Politecnica de Madrid, Spain)
- Irene Lee (MIT, USA)
- Chongbing Liu (Shell Inc., USA)
- Lenging Liu (Microsoft Research, USA)

- Andrea Mammoli (University of New Mexico, USA)
- Klaus Miesenberger (Universität Linz, Austria)
- Brian O’Meara (University of Tennessee, Knoxville)
- Tu Phan (Microsoft Research, USA)
- Satish Ranade (New Mexico State University, USA)
- Chiaki Sakama (Wakayama University, Japan)
- Nayda Santiago (University of Puerto Rico Mayaguez)
- Vitor Santos Costa (University of Porto, Portugal)
- Arlin Stoltzfus (National Institute of Standards and Technology, USA)
- Son Cao Tran (New Mexico State University, USA)
- Mirek Truszczynski (University of Kentucky, USA)
- William Yeoh (NMSU)
- Jun Zheng (New Mexico Institute of Technology, USA)

## Teaching and Advising

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- **Courses Taught:** C Programming, Data Structures, Programming Languages Structure, Programming Languages Semantics, Constraint Programming, Logic Programming, Automata and Formal Languages, Parallel Processing, XML Processing, Semantic Web Programming, Advanced Compilers, Machine Programming, Big Data
- **Graduate Students Advising:**
  - *Doctoral Advisor:* Karen Villaverde (Ph.D. 2002), E. Saad (Ph.D., 2005), I. Elkabani (Ph.D., 2006), H. Le Viet (Ph.D., 2007), O. El-Khatib (Ph.D., 2007), Yu Pan (Ph.D., 2007), Chongbing Liu (Ph.D., 2008), Iyad Abu Doush (Ph.D., 2009), Antonio Arredondo, Abdulla Alqaddoumi (Ph.D., 2016), Ben Wright (Ph.D., 2019), Nancy Alajarmeh (Ph.D., 2014), Ferdinando Fioretto (Ph.D., 2016), Federico Campeotto (Ph.D., 2014), Saurabh Gupta (Ph.D., 2014), Rajaa Shindi (iDOC, 2012), Ahmad Al-Jarrah (Ph.D., 2016), Emmanuel Utreras (Ph.D., 2021), Muhanand Manshad (Ph.D. 2019), Fabio Tardivo.

- *Masters Advisor*: K. Deopura (1998), Z. Yu (2000), G. Khanuja (2001), A. Jayanti (2002), G. Chen (2002), P. Thota (2001), W. Xiong (2001), I. Flores Mendoza (2001), F. Bermudez (2001), N. Bodla (2003), K. Kutikala (2002), H. Al-Sheboul (2002), C. Wallace (2002), M. Bokam (2003), H. Poogalia (2003), S. Wu (2003), R. Reddy (2005), Y. Wu (2003), S. Thodupunuri (2004), X. Xiao (2005), I. Strascina (2004), S. Dange (2004), Y. Flores Mendoza (2003), R. Shindi (2006), J. Cabrera (2004), N. Javaher (2005), B. Dharmana (2005), V. Vegi (2005), S. Pinnamaraju (2006), N. Arkatala (2006), S. Syed (2006), F. Mohammed (2006), S. Alluri (2007), K. Chopperla (2007), S. Kalapala (2007), A. Shah (2007), R. Naviri (2007), J. Pinto (2008), A. Gaddam (2007), V. Mekala (2007), R. Mangalagiri (2007), A. Chavali, A. Hariharan, S. Gaddam (2008), B. Palmer (2007), Antonio Arredondo (2009), B. Chisham, B. Wright (2009), S. Inapurapu (2011), S. Punugu (2010), L. Rajaram (2010), M. Manshad (2014), S. Ramamoorthy (2011), A. Al-Shoraman (2012), F. Fioretto (2011), N. Nesiba (2016), F. Fabiano (2018), Paolo Grignaffini (2019).
- *Laurea*: Co-supervised Francesco Pulvirenti in his Laurea degree (Italy); Co-supervised Alessandro Dal Palu in his Laurea degree (Italy); co-supervised Federico Igne (Italy); co-supervised Marco De Bortoli (Italy); co-supervised Stefano Tognazzi (Italy)
- **External Member**: M. Carro (Ph.D., 2001, Universidad Politecnica de Madrid, Spain), E. Correia (Ph.D., 2002, Universidade do Porto, Portugal), T. Conway (Ph.D., 2002, University of Melbourne, Australia), A. Dal Palù (Ph.D., 2002, University of Udine, Italy), D. Cabeza (Ph.D., 2004, Universidad Politecnica de Madrid), M. Nogueira (Ph.D., 2003 University of Texas at El Paso), Robert Pokorny (Ph.D., 2005, SUNY Stony Brook), M. Marchi (Ph.D., U. of Milano, 2006), M. Zantoni (Ph.D., U. of Udine, 2007), Hung Duy Nguyen (Asian Institute of Technology, Thailand, 2012), Paul Bone (University of Melbourne, Australia, 2013).

## PUBLICATIONS

### Journal Papers

1. A.Dovier, E.G.Omodeo, E.Pontelli, G.Rossi “ $\{\log\}$ : A Language for Programming in Logic with Finite Sets”, *Journal of Logic Programming*, Elsevier Science Publishers, 28(1), pg. 1–44, July 1996.
2. M. Carro, G. Gupta, M. Hermenegildo, E. Pontelli “Improving the Efficiency of Nondeterministic Independent And-parallel Systems” Vol. 22, No. 2/3, *Computer Languages*, pages 115–142 Elsevier, 1996.
3. E. Pontelli, G. Gupta. “Parallel Symbolic Computation in ACE”, *Annals of Mathematics and Artificial Intelligence*, special issue on Logic Programming, Nonmonotonic Reasoning and Actions, 21, pg. 359-395, 1997.
4. D. Ranjan, E. Pontelli, G. Gupta. “Efficient Algorithms for the Temporal Precedence Problem”, *Information Processing Letters*, 68:71–78, 1998.

5. D. Ranjan, E. Pontelli, L. Longpre, G. Gupta. “The Temporal Precedence Problem”, *Algorithmica*, 28(3):288–306, 2000.
6. E. Pontelli and G. Gupta. “Extended Dynamic Dependent And-Parallelism in ACE”, *Journal of Functional and Logic Programming*, Volume 1999, Special Issue 1, MIT Press.
7. D. Ranjan, E. Pontelli, G. Gupta. “On the Complexity of Or-Parallelism”, *New Generation Computing*, Vol. 17, No. 3, pp. 285–307, 1999.
8. E. Pontelli, D. Ranjan, G. Gupta. “The Complexity of Late-binding in Highly Dynamic Object-Oriented Languages”, *Journal of Functional and Logic Programming*, December 1999.
9. A. Dovier, E. Pontelli, G. Rossi. “A Necessary Condition for Constructive Negation in Constraint Logic Programming”, *Information Processing Letters*, Vol. 74, 2000.
10. D. Ranjan, E. Pontelli, G. Gupta. “Data Structures for Order-sensitive Predicates in Parallel Nondeterministic Systems”, *ACTA Informatica*, Vol. 37, No. 1, pp. 21–43, 2000.
11. A. Dovier, E. Pontelli, G. Rossi. “Constructive Negation and Constraint Logic Programming with Sets”, *New Generation Computing*, 19(3), 2001.
12. A. Dovier, C. Piazza, E. Pontelli, G. Rossi. “Sets and Constraint Logic Programming”, *ACM Transactions on Programming Languages and Systems*, Vol. 22, No. 5, 2000.
13. E. Pontelli, G. Gupta “Backtracking in Independent And-Parallel Implementations of Non-Deterministic Languages”, *IEEE Transactions on Parallel and Distributed Processing*, 12(11):1169–1189, 2001.
14. G. Gupta and E. Pontelli. “Optimization Schemas for Parallel Implementation of Non-deterministic Languages and Systems”, *Software Practice & Experience*, Vol. 31, No. 12, 1143–1181, 2001.
15. E. Pontelli, G. Gupta, K. Ali, M. Carlsson, M. Hermenegildo. “Parallel Execution of Prolog Programs”, *ACM Transactions on Programming Languages and Systems*, 23(4):472–602, 2001.
16. G. Gupta and E. Pontelli. “Automatic Generation of Provably Correct Parallelizing Compilers”, *Parallel Computing Journal*, (to appear).
17. E. Pontelli, D. Ranjan, A. Dal Palù. “An Optimal Data Structure to Handle Dynamic Environments in Non-Deterministic Computations”, *Computer Languages*, 28(2):181–201, 2002.
18. E. Pontelli and D. Ranjan. “The Level Ancestor Problem on Pure Pointer Machines”, *Information Processing Letters*, 85(5):275–283, 2002.
19. E. Pontelli, D. Gillan, G. Gupta, A. Karshmer, E. Saad, W. Xiong. “Intelligent Non-visual Navigation of Complex HTML Structures”, *Universal Access in the Information Society*, 2(1):56–69, 2002.

20. E. Pontelli, D. Ranjan, B. Milligan, G. Gupta. “Design and Implementation of a Domain Specific Language for Phylogenetic Inference”, *Journal of Bioinformatic and Computational Biology*, 1(2):201–230, 2003.
21. E. Pontelli and T.C. Son. “Designing Intelligent Agents to Support Universal Accessibility of the World Wide Web”, *Journal of Electronic Commerce Research and Applications*, 2(2-3), 2003.
22. A. Dovier, C. Piazza, E. Pontelli. “Disunification in ACI-1 Theories”, *Constraints*, 9(1):35–91, 2004.
23. T.C. Son and E. Pontelli. “Prioritized Default Theory in Reasoning about Actions and Planning with Preferences”, *Computational Intelligence*, 20(2):358–404, 2004.
24. E. Pontelli and D. Ranjan. “A Simple Optimal Solution for the Temporal Precedence Problem on Pure Pointer Machines”, In *Theory of Computing Systems*, 38(1):115–130, 2005.
25. E. Pontelli, T.C. Son, D. Gillan, K. Kottapally, C. Ngo, R. Reddy. “A System for Automatic Structure Discovery and Reasoning-based Navigation of the Web”, *Interacting with Computers*, 16(3):451–475, 2004.
26. M. Balduccini, E. Pontelli, O. Elkhatib, H. Le. “Issues in Parallel Execution of Non-monotonic Reasoning Systems”, *Parallel Computing Journal*, 31:608–647, 2005.
27. A. Dovier, E. Pontelli, G. Rossi. “Set Unification Revisited”, *Theory and Practice of Logic Programming*, 6(5):645–701, 2006.
28. T.C. Son and E. Pontelli. “Planning with Preferences using Logic Programming”, In *Theory and Practice of Logic Programming*, 6(5):559–608, 2006.
29. A. Dal Palu, E. Pontelli, D. Ranjan. “Sequential and Parallel Algorithms for the NCA Problem on Pure Pointer Machines”, In *Theoretical Computer Science*, 352:108–135, 2006.
30. T. Cao Son and E. Pontelli. “A constructive semantic Characterisation of aggregates in answer set programming”, In *Theory and Practice of Logic Programming*, 7(3):355–375, 2007.
31. E. Pontelli, K. Villaverde, H. Guo, G. Gupta. “PALS: Efficient Or-Parallel Execution of Prolog on Beowulf Clusters”, In *Theory and Practice of Logic Programming*, 7(6):633–695, 2007.
32. E. Pontelli, K. Villaverde, H. Guo, G. Gupta. “Stack Splitting: a technique for efficient exploitation of search parallelism on share-nothing platforms”, In *Journal of Parallel and Distributed Computing*, 66(10):1267–1293, 2006.
33. A. Dal Palu, E. Pontelli, J. He, Y. Lu. “A Constraint Logic Programming Approach to Associate 1D and 3D Structural Components for Large Protein Complexes”, *International Journal of Data Mining and Bioinformatics*, 1(4):352–371, 2007.

34. T.C. Son, E. Pontelli, T. Phan. “Answer Sets for Logic Programs with Arbitrary Abstract Constraint Atoms”, In *Journal of Artificial Intelligence Research*, 29:353–389, 2007.
35. E. Saad and E. Pontelli. “New Approach to Hybrid Probabilistic Logic Programs”, In *Annals of Mathematics and Artificial Intelligence*, 48(3–4):187–243, 2006.
36. A. Dal Palu, A. Dovier, E. Pontelli. “A Constraint Solver for Discrete Lattices, its Parallelization, and Application to Protein Structure Prediction”, In *Software Practice & Experience*, 37(13):1405–1449, 2007.
37. A. Dovier, A. Formisano, E. Pontelli. “An Empirical Study of Constraint Logic Programming and Answer Set Programming Solutions of Combinatorial Problems”, In *Journal of Experimental and Theoretical Artificial Intelligence*, 21(2):79–121, 2009.
38. A. Dovier, A. Dal Palu, E. Pontelli. “Computing Approximate Solutions of the Protein Structure Determination Problem using Global Constraints on Discrete Crystal Lattices”, *International Journal of Data Mining and Bioinformatics*, 4(1):1–20, 2010.
39. G. Grossi, M. Marchi, E. Pontelli, A. Proveti. “Experimental Analysis in Graph-Based Answer Set Computation over Parallel and Distributed Architectures”, *Journal of Logic and Computation*, 19:697–715, 2008.
40. E. Pontelli, T. Son, O. Elkhatib. “Justifications for Answer Set Programming”, *Theory and Practice of Logic Programming* 9(1):1–56, 2009.
41. P.H. Tu, E. Pontelli, T.C. Son, S. To. “Applications of Parallel Processing Technologies in Heuristic Search Planning: Methodologies and Experiments”, *Concurrency and Computation*, 21(15):1928–1960, 2009.
42. B. Chisham, F. Prosdocimi, E. Pontelli, A. Stoltzfus, J. Thompson. “Initial Implementation of a Comparative Data Analysis Ontology”, *Evolutionary Bioinformatics*, 5:47–66, 2009.
43. E. Pontelli, H. Le, T.C. Son. “An Investigation in Parallel Execution of Answer Set Programs on Distributed Memory Platforms: Task Sharing, and Dynamic Scheduling”, *Computer Languages, Systems, and Structures*, 36(2):158–202, 2010.
44. A. Dal Palú, A. Dovier, E. Pontelli, G. Rossi. “GASP: Answer Set Programming with Lazy Grounding”, *Fundamenta Informaticae*, 96(3):297–322, 2009.
45. E. Pontelli, D. Bevan, M. Chapman, J. He, J. MacCuish, N. MacCuish, D. Moreland, J. Pinto, X. Qin. “BIOPS Interactive, An E-Learning Platform Focused on Protein Structure and DNA”, *BioScene*, 35(2):6–15, 2009.
46. E. Pontelli, L. Liu, T. Son, M. Truszczynski. “Logic Programs with Abstract Constraint Atoms: The Role of Computations”, *Artificial Intelligence Journal*, 174(3–4):295–315, 2010.
47. A. Dovier, A. Formisano, E. Pontelli. “Multi-valued Action Languages with Constraints in CLP(FD)”, *Theory and Practice of Logic Programming*, 10(2):167–235, 2010.

48. G. Gelfond, C. Baral, E. Pontelli, T. Son. “Using Logic Programming for Finding Models in the Logics of Knowledge and its Applications”, *Theory and Practice of Logic Programming*, 10(4–6):675–690, 2010.
49. A. Dal Palu, A. Dovier, F. Fogolari, E. Pontelli. “CLP-based Protein Fragment Assembly”, *Theory and Practice of Logic Programming*, 10(4–6):709–724, 2010.
50. I. Abu Doush, E. Pontelli, T. Son, D. Simon, O. Ma. “Multimodal Presentation of Two-dimensional Charts: An Investigation Using Open Office XML and Microsoft Excel”, *ACM Transactions on Accessible Computing*, 3(2):8, 2010.
51. A. Dovier, A. Formisano, and E. Pontelli. “An Investigation of Multi-Agent Planning in CLP”, *Fundamenta Informaticae*, (to appear).
52. B. Chisham, B. Wright, T. Le, T. Son, E. Pontelli. “CDAO-Store: Ontology-driven Data Integration for Phylogenetic Analysis,” *BMC Bioinformatics*, 12:98, 2011.
53. A. Dovier, A. Formisano, E. Pontelli. “Autonomous Agents Coordination: Action Languages meet CLP(FD) and Linda”, *Theory and Practice of Logic Programming*, 13(2):149-173, 2013.
54. K. Nguyen, V. Tran, T. Son, E. Pontelli. “A Conformant Planner Based On Approximation: CpA(H)”, *ACM Transactions on Intelligent Systems and Technology*, 4(2), 2013.
55. I. Abu Doush and E. Pontelli. “Non-visual navigation of spreadsheets: Enhancing accessibility of Microsoft Excel”, *Universal Access in the Information Society*, 12(2):143-159, 2013.
56. C. Liu and E. Pontelli. “Techniques to Enhance Efficiency and Effectiveness of Inductive Logic Programming Systems: The TWEETY Approaches,” *Journal of Experimental and Theoretical Artificial Intelligence*, (to appear), 2013.
57. A. Stoltzfus, H. Lapp, N. Matasci, H. Deus, B. Sidlauskas, C. M. Zmasek, G. Vaidya, E. Pontelli, et al. “Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient.” *BMC Bioinformatics* 14, 2013.
58. T. Cao Son, E. Pontelli, C. Sakama, H. Nguyen. “Formalizing Negotiations Using Logic Programming”, *ACM Transactions on Computational Logic*, (to appear), 2013.
59. F. Campeotto, A. Dal Palu, A. Dovier, F. Fioretto, E. Pontelli. “A Constraint Solver for Flexible Protein Model,” *Journal of Artificial Intelligence Research*, 48:953-1000, 2013.
60. A. Dal Palu, A. Dovier, A. Formisano, E. Pontelli. “CUD@SAT: SAT Solving on GPUs,” *Journal of Experimental and Theoretical Artificial Intelligence*, 27(3):293-316, 2015.
61. F. Fioretto, E. Pontelli, A. Dovier. “Constrained Community-based Gene Regulatory Network Inference,” *ACM Transactions on Modeling and Computer Simulations*, 25(2), 2015.

62. F. Campeotto, A. Dovier, E. Pontelli. “A Declarative Concurrent System for Protein Structure Prediction on GPU,” *Journal of Experimental and Theoretical Artificial Intelligence*, 27(5):503-541, 2015.
63. S. To, T. Son, E. Pontelli. “A generic approach to planning in the presence of incomplete information: Theory and implementation,” *Artificial Intelligence Journal*, 227:1-51, 2015.
64. T. Le, T. Son, E. Pontelli, W. Yeoh. “Solving Distributed Constraint Optimization Problems Using Logic Programming,” *Theory and Practice of Logic Programming*, 17(4): 634-683, 2017.
65. T. Le, T. Son, E. Pontelli. “Multi-context Systems with Preferences,” *Fundamenta Informaticae*, 158(1-3): 171-216, 2018.
66. A. Stoltzfus, M. Rosenberg, H. Lapp, A. Budd, K. Cranston, E. Pontelli, S. Oliver, R. Vos. “Community and Code: Nine Lessons from Nine NESCent Hackathons,” *F1000 Research*, 6:786, 2017.
67. F. Fioretto, E. Pontelli, W. Yeoh, R. Dechter. “Accelerating exact and approximate inference for (distributed) discrete optimization with GPUs.” *Constraints* 23(1): 1-43, 2018.
68. F. Fioretto, E. Pontelli, W. Yeoh. “Distributed Constraint Optimization Problems and Applications: A Survey.” *J. Artif. Intell. Res.* 61: 623-698, 2018.
69. A. Al-Jarrah, E. Pontelli. “The Collaborative Virtual Affinity Group Model: Principles, Design, Implementation, and Evaluation,” *International Journal of Computers and Applications*, (to appear).
70. A. Dal Palu, A. Dovier, A. Formisano, E. Pontelli. “ASP Applications in Bioinformatics: A short tour,” *KI - Künstliche Intelligenz*, 32(2-3):157-164, 2018.
71. F. Fioretto, A. Dovier, E. Pontelli. “Distributed Multi-Agent Optimization for Smart Grids and Home Automation,” *Intelligenza Artificiale*, 12(2):67-87, 2018.
72. Thanh Hai Nguyen, Enrico Pontelli, Tran Cao Son. “Phylotastic: An Experiment in Creating, Manipulating, and Evolving Phylogenetic Biology Workflows Using Logic Programming.” *Theory and Practice of Logic Programming*, 18(3-4): 656-672, 2018.
73. Ferdinando Fioretto, Enrico Pontelli, “Past and present (and future) of parallel and distributed computation in (constraint) logic programming.” *Theory and Practice of Logic Programming*, 18(5-6):722-724, 2018.
74. V. Nguyen, T. Nguyen, A. Md. Tayeen, H. Laughinghouse, L. Sanchez-Reyes, J. Wiggings, E. Pontelli, D. Mozzherin, B. O’Meara, A. Stoltzfus. “Phylotastic: Improving access to tree-of-life knowledge with flexible, on-the-fly delivery of trees,” *Evolutionary Bioinformatics*, 16, 2020.
75. Alessandro Burigana, Francesco Fabiano, Agostino Dovier, Enrico Pontelli, “Modelling Multi-Agent Epistemic Planning in ASP,” *Theory and Practice of Logic Programming*, 20(5):593-608, 2020.



76. Abu Saleh Md Tayeen, Thanh Hai Nguyen, Van Duc Nguyen, Enrico Pontelli, “Design and Implementation of Phylotastic, a Service Architecture for Evolutionary Biology,” *International Journal of Software Engineering and Knowledge Engineering*, 30(10):1525-1550, 2020.
77. Emmanuel Utreras, Enrico Pontelli. “Introductory programming and young learners with visual disabilities: a review,” *Universal Access in the Information Society*, (to appear), 2021.
78. C. Baral, G. Gelfond, E. Pontelli, T. Son, “An Action Language for Multi-Agent Domains,” *Artificial Intelligent Journal*, (to appear), 2021.

## Books Edited

1. I. Dutra, E. Pontelli, G. Gupta, F. Silva, V. Santos Costa. *Parallelism and Implementation Technology for Constraint Logic Programming*, Nova Science, 1999.
2. E. Pontelli, V. Santos Costa. *Practical Aspects of Declarative Languages*, Springer Verlag, Lecture Notes in Computer Science 1753, 2000.
3. E. Pontelli and A. Sears. *Computers and Accessibility – Proceedings of the ASSETS 2005 Conference*, ACM Press, 2005.
4. S. Trewin and E. Pontelli. *Computers and Accessibility – Proceedings of the ASSETS 2007 Conference*, ACM Press, 2007.
5. M. Garcia de la Banda and E. Pontelli. *International Conference on Logic Programming*, Springer Verlag, Lecture Notes in Computer Science, 2008.
6. A. Dovier and E. Pontelli. *25 Years of Logic Programming Research in Italy*, Springer Verlag, 2010.
7. L. Petersen and E. Pontelli. *Proceedings of the Declarative Aspects of Multicore Programming Workshop*, ACM Press, 2010.
8. E. Pontelli and T. Son. *Proceedings of the Symposium on Practical Aspects of Declarative Languages*, Springer Verlag, 2015.

## Edited Journals (Special Issues)

1. F. Fioretto and E. Pontelli. Special Issue of *Theory and Practice of Logic Programming*, parallel, distributed and concurrent logic programming, 2018.
2. M. Garcia de la Banda and E. Pontelli. Special Issue of *Theory and Practice of Logic Programming*, 11(2-3), 2011.
3. E. Pontelli and A. Sears. Special Issue of the *Behavior and Information Technology Journal* on “Computers and Accessibility”, 25(4), 2006.
4. E. Pontelli and V. Santos Costa. Special Issue of the *Journal of Functional and Logic Programming* on “Practical Aspects of Declarative Programming”, 2001.

5. V. Santos Costa, E. Pontelli, G. Gupta. Special Issue of the *Journal of Functional and Logic Programming* on Implementation of Logic and Constraint Programming, 1999.
6. I. Dutra, E. Pontelli, V. Santos Costa, G. Gupta, M. Carro, P. Kacsuk. *Parallelism and Implementation Technology for Constraint Logic Programming*, Electronic Notes in Theoretical Computer Science, Volume 30, Issue 3, 2000. (<http://www.elsevier.nl/jeing/31/29/23/55/show/Products/notes/cover.htm>)

## Papers in Edited Collections

1. G. Gupta and E. Pontelli "Last Alternative Optimization for Or-parallel Logic Programming Systems", in *Parallelism and Implementation Technology for Constraint Logic Programming*, Nova Science, 1999.
2. G. Gupta and E. Pontelli "Specification, Implementation, and Verification of Domain Specific Languages: a Logic Programming-based Approach", In *Computational Logic: from Logic Programming into the Future*, (invited contribution), Springer Verlag, 2002.
3. E. Pontelli, A. Karshmer, G. Gupta. "Mathematics and Accessibility: a Survey", In *The Universal Access Handbook*, Lawrence Erlbaum, 2009.
4. E. Pontelli, T.C. Son, C. Baral. "A Logic Programming Based Framework for Intelligent Web Services Composition", In *Managing Web Services Quality: Measuring Outcomes and Effectiveness*, IDEA Group Publishing, 2008.
5. Y. Pan, E. Pontelli, S. Tran. "BSIS: An Experiment in Automating Bioinformatics Tasks Through Intelligent Workflow Construction", In *Semantic e-Science*, Springer Verlag, pp. 189–238, 2010.
6. F. Prosdocimi, B. Chisham, E. Pontelli, A. Stoltzfus, J. Thompson. "Knowledge standardization in evolutionary biology: the comparative data analysis ontology", In *Evolutionary Biology: Concept, Modeling, and Application*, Springer, Chapter 12, 2009.
7. E. Pontelli, T. Son, H. Nguyen. "Combining Answer Set Programming and Prolog: The ASP-Prolog System", In *Logic Programming, Knowledge Representation, Non-Monotonic Reasoning*, Springer Verlag, 2011.
8. A. Dovier, A. Formisano, E. Pontelli. "Perspectives on Logic-Based Approaches for Reasoning about Actions and Change", In *Logic Programming, Knowledge Representation, Non-Monotonic Reasoning*, Springer Verlag, 2011.
9. E. Pontelli, T. Son, C. Baral, G. Gelfond. "Planning in the Logic of Knowledge using Answer Set Programming", In *Correct Reasoning*, Springer Verlag, 2012.
10. A. Dal Palu, A. Dovier, F. Fioretto, E. Pontelli. "Protein Structure Prediction and Analysis with Constraint Logic Programming", In *Computational Approaches to Nuclear Receptors: From Computational Simulation to In Vivo Experiments*, The Royal Society of Chemistry, 2012.

11. N. Alajarmeh and E. Pontelli. “Visual Disabilities, Information Technology, and the Learning of Mathematics,” *Encyclopedia of Information Science and Technology*, IGI Press, 2014.
12. C. Baral, T. Son, E. Pontelli. “A Non-Monotonic Goal Specification Language for Planning with Preferences,” *Festschrift for Gerd Brewka*, Springer Verlag, 2015.
13. A. Dovier, A. Formisano, E. Pontelli. “Parallel Answer Set Programming.” *Handbook of Parallel Constraint Reasoning*, pp. 237-282, 2018.

## Invited Publications

1. G. Gupta and E. Pontelli. “ACE: A High Performance Parallel Prolog System,” *Proceedings of Joint Conference on Declarative Programming*. June 1997, pp. 25-31.
2. V. Santos Costa, I. Dutra, G. Gupta, E. Pontelli, et al. “Towards Effective Parallel Logic Programming”, *Proceedings of the 2001 CNPq Workshop*, Brasil, 2001.
3. E. Pontelli. “Answer Set Programming in 2010”, *Proceedings of the Symposium on Practical Aspects of Declarative Languages*, Springer Verlag, pp. 1–3, 2010.

## Peer-Reviewed International Conferences

1. F. Fabiano, A. Burigana, A. Dovier, E. Pontelli, T. Son. “Multi-Agent Epistemic Planning with Inconsistent Beliefs, Trust and Lies,” *Pacific-Rim International Conference on Artificial Intelligence (PRICAI)*, 2021.
2. L. Pham, T. Son, E. Pontelli. “Formalizing the Three-Player Card Game Using the Language maA\*,” *19th International Workshop on Non-Monotonic Reasoning*, 2021.
3. M. Porag Chowdhury, J. Perez, C. Kiekintveld, T. Son, W. Yeoh, E. Pontelli. “Empirical game-theoretic methods to minimize regret against specific opponents,” *Proceedings Volume 11746, Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications III*, SPIE, 2021.
4. L.L. Trieu, T. Son, E. Pontelli, M. Balduccini. “Generating explanations for answer set programming applications,” *Proceedings Volume 11746, Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications III*, SPIE, 2021.
5. Fabio Tardivo, Loc Pham, Tran Cao Son, Enrico Pontelli. “A Logic Programming Approach to Regression Based Repair of Incorrect Initial Belief States.” *International Symposium on Practical Aspects of Declarative Languages*, Springer Verlag, pp. 73-89, 2021.
6. Francesco Fabiano, Alessandro Burigana, Agostino Dovier, Enrico Pontelli. “EFP 2.0: A Multi-Agent Epistemic Solver with Multiple E-State Representations.” *International Conference on Automated Planning and Scheduling*, AAAI Press, pp. 101-109, 2020.

7. Emmanuel Utreras, Enrico Pontelli. "Design of a Tangible Programming Tool for Students with Visual Impairments and Low Vision." *Universal Access in Human-Computer Interaction*, Springer Verlag, pp. 304-314, 2020.
8. Emmanuel Utreras, Enrico Pontelli. "Accessibility of Block-Based Introductory Programming Languages and a Tangible Programming Tool Prototype." *International Conference on Computers Helping People (ICCHP)*, Springer Verlag, pp. 27-34, 2020.
9. Marcello Balduccini, Michael Gelfond, Enrico Pontelli, Tran Cao Son. "An Answer Set Programming Framework for Reasoning about Agents' Beliefs and Truthfulness of Statements." *International Conference on Principles of Knowledge Representation and Reasoning*, pp. 69-78, 2020.
10. T. Nguyen, E. Pontelli, T. Son. "On Repairing Web Services Workflows," *International Symposium on Practical Aspects of Declarative Languages*, Springer Verlag, pp. 37-53, 2020.
11. Tiep Le, Tran Cao Son, Enrico Pontelli. "Multi-Context System for Optimization Problems." *AAAI 2019*: 2929-2937.
12. V. Nugyen, T. Son, E. Pontelli. "Natural Language Generation for Non-Expert Users," *International Conference on Logic Programming*, pp. 280-294, 2019.
13. Francesco Fabiano, Idriss Riouak, Agostino Dovier, Enrico Pontelli. "Non-Well-Founded Set Based Multi-Agent Epistemic Action Language." *Computational Logic Italian Conference*, CEUR, pp. 242-259, 2019.
14. Van Nguyen, Tran Cao Son, Enrico Pontelli. "Natural Language Generation from Ontologies." *Practical Aspects of Declarative Languages*, Springer Verlag, pp. 64-81, 2019.
15. Thanh Hai Nguyen, Tran Cao Son, Enrico Pontelli. "Automatic Web Services Composition for Phylotastic." *Practical Aspects of Declarative Languages*, Springer Verlag, pp. 186-202, 2018.
16. Van Duc Nguyen, Tran Cao Son, Enrico Pontelli. "Explanations Generation For Web Service Workflow." *International Conference on Logic Programming*, 14:1-14:3, 2018.
17. Federico Igne, Agostino Dovier, Enrico Pontelli. "MASP-Reduce: A Proposal for Distributed Computation of Stable Models." *International Conference on Logic Programming*, 8:1-8:4, 2018.
18. Khoi D. Hoang, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Roie Zivan. "A Large Neighboring Search Schema for Multi-agent Optimization." *Principles and Practice of Constraint Programming*, pp. 688-706, Springer Verlag, 2018.
19. Tiep Le, Francesco Fabiano, Tran Cao Son, Enrico Pontelli. "EFP and PG-EFP: Epistemic Forward Search Planners in Multi-Agent Domains." *Proceedings of the International Conference on Automated Planning and Scheduling*, pp. 161-170, 2018.

20. R. Stanton, Enrico Pontelli, Z. Toups, Muhanad S. Manshad. "Exploring a Novel Inexpensive Tangible Interface for Non-visual Math and Science." International Conference on Computers Helping People, Springer Verlag, pp. 619-627, 2018.
21. Sarah Hug, Suzanne Eyerma, Raena Cota and Enrico Pontelli. "Embedding K12 Professional Development Through Co-Teaching Experiences- Sustaining Computational Thinking in Interdisciplinary Courses," 3rd Annual Conference for Research on Equity and Sustained Participation in Computing, Engineering, and Technology, IEEE, 2018.
22. B. Wright, E. Pontelli. "Problem Solving Course Development in Computer Science Curricula," SITE 2018 - The Society for Information Technology & Teacher Education, 2018.
23. B. Wright, E. Pontelli. "Reasoning with Doxastic Attitudes in Multi-Agent Domains." FLAIRS Conference, pp. 360-365, 2018.
24. Thanh Hai Nguyen, Tran Cao Son, Enrico Pontelli, "Automatic Web Services Composition for Phylotastic." Symposium on Practical Aspects of Declarative Languages, Springer Verlag, pp. 186-202, 2018.
25. Son Thanh To, Tran Cao Son, Enrico Pontelli. "A generic approach to planning in the presence of incomplete information: Theory and implementation (Extended Abstract)." IJCAI, pp. 5075-5079, 2017.
26. Sarah Hug, Enrico Pontelli, Raena Cota, Suzanne Eyerma. "Learning and Identity in YWIC: An Analysis of Program Implementation and Design as Promoting Agency in Computing," ACM SIGCSE, 2017.
27. Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Ye Ma, Satishkumar J. Ranade. "A Distributed Constraint Optimization (DCOP) Approach to the Economic Dispatch with Demand Response," AAMAS, 2017.
28. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "A Multiagent System Approach to Scheduling Devices in Smart Homes," AAMAS, 2017.
29. Tiep Le, Ferdinando Fioretto, William Yeoh, Tran Cao Son, Enrico Pontelli. "ER-DCOPs: A Framework for Distributed Constraint Optimization with Uncertainty in Constraint Utilities." AAMAS, 2016.
30. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "A Dynamic Programming-Based MCMC Framework for Solving DCOPs with GPUs." Principles and Practice of Constraint Programming, 2016.
31. Ahmad Al-Jarrah, Enrico Pontelli. "On the Effectiveness of a Collaborative Virtual Pair-Programming Environment." Learning and Collaboration Technologies, Vol. 23, 2016.
32. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "Multi-Variable Agents Decomposition for DCOPs." AAI, 2016.
33. T. Son, E. Pontelli, M. Gelfond, M. Balduccini. "Reasoning about Truthfulness of Agents Using Answer Set Programming." KR, 2016.

34. Agostino Dovier, Andrea Formisano, Enrico Pontelli, Flavio Vella. “A GPU Implementation of the ASP Computation.” PADL, 2016.
35. T. Son, E. Pontelli, C. Baral, G. Gelfond. “Exploring the KD45<sub>n</sub> Property of a Kripke Model After the Execution of an Action Sequence,” National Conference on Artificial Intelligence (AAAI), AAAI/MIT Press, 2015.
36. T. Le, T. Son, E. Pontelli, W. Yeoh. “Solving Distributed Constraint Optimization Problems Using Logic Programming,” National Conference on Artificial Intelligence (AAAI), AAAI/MIT Press, 2015.
37. R. Folk, G. Lee, A. Michalenko, Amanda Peel, Enrico Pontelli. “Incorporating computational thinking with K-12 science without computer access.” *Frontiers in Education*, IEEE, 2015.
38. Ferdinando Fioretto, Tiep Le, Enrico Pontelli, William Yeoh, Tran Cao Son. “Exploiting GPUs in Solving (Distributed) Constraint Optimization Problems with Dynamic Programming.” *Principles and Practice of Constraint Programming (CP)*, Springer Verlag, 2015.
39. Natasha Nesiba, Enrico Pontelli, Timothy Staley. “Exploring the relationship between computational thinking and English literature in K-12 curricula.” *Frontiers in Education*, IEEE, 2015.
40. Stefano Tognazzi, Agostino Dovier, Enrico Pontelli, Tran Cao Son. “Exploring the Use of BDDs in Conformant Planning.” 27th IEEE International Conference on Tools with Artificial Intelligence, 2015.
41. Tiep Le, Tran Cao Son, Enrico Pontelli. “Multi-Context Systems with Preferences.” *Principles and Practice of Multi-Agent Systems*, Springer Verlag, 2015.
42. Taylor Burgett, R. Folk, James Fulton, Amanda Peel, Enrico Pontelli, Victor Szczepanski. “Analysis of pedagogical techniques to integrate computational thinking into K-12 curricula.” *Frontiers in Education*, IEEE, 2015.
43. T. Son, E. Pontelli, C. Baral, G. Gelfond. “Finitary Epistemic Logic Theories,” *European Conference on Logics in Artificial Intelligence (JELIA)*, Springer Verlag, 2014.
44. A. Al-Jarrah, E. Pontelli. “Alice as a Collaborative Virtual Environment,” *Frontier in Education*, IEEE, 2014.
45. N. Alajarmeh, E. Pontelli. “A Multi-Layer Universally Designed Workspace for Tracking Students Skills and Mastery Transition in Mathematics Manipulation in Inclusive Education,” *Frontiers in Education*, IEEE, 2014.
46. E. Pontelli, K. Arraki, K. Blair, T. Burgett, J. Greenling, J. Haebe, A. Peel, V. Szczepanski, S. Hug, “DISSECT: An Experiment in Infusing Computational Thinking in K-12 Science Curricula,” *Frontiers in Education*, IEEE, 2014.
47. F. Fioretto, T. Le, W. Yeoh, T. Son, E. Pontelli. “Improving DPOP with Branch Consistency in Distributed Constraint Optimization Problems,” *International Conference on Principles and Practice of Constraint Programming (CP)*, Springer Verlag, 2014.

48. F. Campeotto, A. Dovier, F. Fioretto, E. Pontelli. "A GPU Implementation of Large Neighborhood Search for Solving Constraint Optimization Problems," European Conference on Artificial Intelligence (ECAI), Morgan Kaufman, 2014.
49. T. Le, E. Pontelli, T. Son, W. Yeoh. "Logic and Constraint Logic Programming for Distributed Constraint Optimization," International Conference on Logic Programming (Technical Communication), 2014.
50. T. Son, E. Pontelli, T. Le. "Two Applications of the ASP-Prolog System: Decomposable Programs and Multi-context Systems," Practical Aspects of Declarative Languages, Springer Verlag, 2014.
51. F. Campeotto, A. Dal Palu, A. Dovier, F. Fioretto, E. Pontelli. "Exploring the Use of GPUs in Constraint Solving," Practical Aspects of Declarative Languages, Springer Verlag, 2014.
52. C. Baral, G. Gelfond, E. Pontelli, T. Son. "Reasoning about the beliefs of agents in multi-agent domains in the presence of state constraints," Computational Logic in Multi-Agent systems (CLIMA), Springer Verlag, 2013.
53. S. Gupta, E. Pontelli, W. Yeoh, S. Ranade. "Modeling Microgrid Islanding Problems As DCOPs", North American Power Symposium, 2013.
54. F. Campeotto, A. Dovier, E. Pontelli. "Protein Structure Prediction on GPU: a Declarative Approach in a Multi-agent Framework", International Conference on Parallel Processing, IEEE Computer Society, 2013.
55. F. Fioretto and E. Pontelli. "Constraint Programming in Community-based Gene Regulatory Network Inference", International Conference on Computational Methods in Systems Biology, Springer Verlag, 2013.
56. F. Campeotto, A. Dovier, E. Pontelli. "Protein Structure Prediction on GPU: an experimental report", International Workshop on Experimental Evaluation of Algorithms for solving problems with combinatorial explosion (RCRA), 2013.
57. M. Manshad, E. Pontelli, S. Manshad. "Exploring tangible collaborative distance learning environments for the blind and visually impaired." International Conference on Computer-Human Interaction (CHI), ACM Press, 2013.
58. S. Hug, J. Sandry, R. Vordermann, E. Pontelli, B. Wright. "DISSECT: integrating computational thinking in the traditional K-12 curricula through collaborative teaching." SIGCSE, ACM Press, 2013
59. P. Jain, S. Ranade, S. Gupta, E. Pontelli. "Optimum Operation of a Customer-Driven Microgrid: A Comprehensive Approach", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012), 2012.
60. B. Wright, E. Pontelli, T. Son. "Implementing Reversible Processes in Multi-agent Action Languages using Answer Set Planning", Computational Logic in Multi-Agent Systems (CLIMA), Springer Verlag, 2012.
61. T. Le, H. Nguyen, E. Pontelli, T. Son. "ASP at Work: An ASP Implementation of PhyloWS." International Conference on Logic Programming, LIPiCS, 2012.

62. N. Alajarmeh, E. Pontelli. “E-Arithmetic: non-visual arithmetic manipulation for students with impaired vision.” *International Conference on Computers and Accessibility*, ACM Press, 2012.
63. A. Dal Palu, A. Dovier, E. Pontelli, F. Campeotto, F. Fioretto. “A Filtering Technique for Fragment Assembly-based Proteins Loop Modeling with Constraint”, *International Conference on Principle and Practice of Constraint Programming*, Springer Verlag, 2012.
64. N. Alajarmeh, E. Pontelli. “A Non-Visual Electronic Workspace for Learning Algebra”, *International Conference on Computers Helping People*, Springer Verlag, 2012.
65. M. Manshad, E. Pontelli, S. Manshad. “Multimodal interactive cubes for object orientation”, *International Conference on Computers Helping People*, Springer Verlag, 2012.
66. K. Nguyen, V. Tran, T. Son, E. Pontelli. “On Computing Conformant Plans Using Classical Planners: A Generate-And-Complete Approach”, *International Conference on Automated Planning and Scheduling (ICAPS)*, 2012.
67. B. Chisham, H. Nguyen, T. Le, E. Pontelli, T. Son. “Preliminary Design of a Phylogenetic Query Portal based on Declarative Programming Languages Technology”, *International Conference on Bioinformatics and Computational Biology*, 2012.
68. H. Sharifi and E. Pontelli. “An Ontology-Based Computational Thinking Framework”, *Society for Information Technology & Teacher Education International Conference*, 2012.
69. S. To, T. Son, E. Pontelli. “Conjunctive Representations in Contingent Planning: Prime Implicates versus Minimal CNF Formula”, *National Conference on Artificial Intelligence (AAAI)*, 2011.
70. K. Nguyen, V. Tran, T. Son, E. Pontelli. “On Improving Conformant Planners by Analyzing Domain-Structures”, *National Conference on Artificial Intelligence (AAAI)*, 2011.
71. S. To, T. Son, E. Pontelli. “On the Effectiveness of Belief State Representation in Contingent Planning”, *National Conference on Artificial Intelligence (AAAI)*, 2011.
72. C. Sakama, T. Son, E. Pontelli. “A Logical Formulation of Negotiation Among Dishonest Agents”, *International Joint Conference on Artificial Intelligence*, 1069-1074, 2011.
73. S. To, E. Pontelli, T. Son. “On the Effectiveness of CNF and DNF Representations in Contingent Planning”, *International Joint Conference on Artificial Intelligence*, 2033-2038, 2011.
74. A. Dal Palu, A. Dovier, F. Fogolari, E. Pontelli. “Exploring Protein Fragment Assembly Using CLP”, *International Joint Conference on Artificial Intelligence*, 2590-2595, 2011.



75. T. Son, E. Pontelli, C. Sakama. “Formalizing Commitments Using Action Languages.” *Declarative Agent Languages and Technology*, Springer Verlag, 67-83, 2011.
76. T. Son, E. Pontelli, C. Sakama. “ASP-Prolog for Negotiation Among Dishonest Agents”, *Logic Programming and Non-Monotonic Reasoning*, Springer Verlag, 2011.
77. C. Sakama, T. Son, E. Pontelli. “An Experiment in Formalizing Commitments Using Action Languages”, *CommonSense*, AAAI Press, 2011.
78. S. To, T. Son, E. Pontelli. “Contingent Planning as And/Or forward search with Disjunctive Representation”, *International Conference on Automated Planning and Scheduling (ICAPS)*, Springer Verlag, 2011.
79. N. Alajarmeh, E. Pontelli, T. Son. “From Reading Math to Doing Math”, *Human Computer Interaction International*, Springer Verlag, 2011.
80. M.S. Manshad, E. Pontelli, S.J. Manshad. “MICOO (multimodal interactive cubes for object orientation): a tangible user interface for the blind and visually impaired.” *International Conference on Computers and Accessibility*, ACM Press, 2011.
81. B. Chisham, E. Pontelli, T. Son, B. Wright. “CDAOStore: A Phylogenetic Repository Using Logic Programming and Web Services.” *International Conference on Logic Programming*, 209-219, 2011.
82. A. Dovier, A. Formisano, E. Pontelli. “BAAC: A Prolog System for Action Description and Agents Coordination.” *International Conference on Logic Programming*, 187-197, 2011.
83. T. Son, E. Pontelli, C. Baral. “Goal Default Theory with Priorities as a Non-Monotonic Goal Specification Language”, *NonMom@30, Thirty Years of Nonmonotonic Reasoning*, Springer Verlag, 2010.
84. T. Son, E. Pontelli, N-H. Nguyen. “Planning for Multi-Agents using ASP-Prolog”, In *Computational Logic in Multi-Agent Systems*, Springer Verlag, 2009.
85. S. To, T. Son, E. Pontelli. “A New Approach to Conformant Planning using CNF”, In *International Conference on Automated Planning and Scheduling*, AAAI Press, 2010.
86. S. To, T. Son, E. Pontelli. “On the Use of Prime Implicates in Conformant Planning”, In *National Conference on Artificial Intelligence (AAAI)*, AAAI/MIT Press, 2010.
87. C. Baral, G. Gelfond, E. Pontelli, T. Son. “Modeling multi-agent scenarios involving agents knowledge about other’s knowledge using ASP”, In *International Conference on Autonomous Agents and Multiagent Systems*, ACM Press, 2010.
88. I. Abu Doush, E. Pontelli. “Detecting and recognizing tables in spreadsheets.” *Document Analysis Systems*, ACM Press pp. 471–478, 2010.
89. I. Abu Doush, E. Pontelli. “Non-visual Navigation of Spreadsheet Tables.” *International Conference on Computers Helping People (ICCHP)*, Springer Verlag, pp. 108–115, 2010.

90. I. Abu Doush, E. Pontelli. “Integrating Semantic Web and Folksonomies to Improve E-Learning Accessibility.” *International Conference on Computers Helping People (ICCHP)*, Springer Verlag, pp. 376–383, 2010.
91. V. Brigatti, C. Bernareggi, E. Pontelli. “Producing Accessible Slide Presentations for Scientific Lectures”, In *E-Inclusion in Mathematics and Science*, Kyushu University Press, 2009.
92. C. Baral, E. Pontelli, T.C. Son. “Modeling Multi-Agent Domains in Action Languages”, In *Computational Logic in Multi-Agent Systems*, Springer Verlag, 2009.
93. I. Abu Doush, E. Pontelli, S. Tran, D. Simon, O. Ma. “Multimodal presentation of charts”, In *ACM International Conference on Computers and Accessibility*, ACM Press, 2009.
94. S. To, E. Pontelli, S. Tran. “A Conformant Planner with Explicit Disjunctive Representation of Belief States”, In *International Conference on Automated Planning and Scheduling (ICAPS)*, AAAI Press, 2009.
95. A. Dal Palu, A. Dovier, E. Pontelli. “Logic Programming Techniques in Protein Structure Determination: Methodologies and Results”, In *Logic Programming and Non-Monotonic Reasoning*, Springer Verlag, 2009.
96. A. Dovier, A. Formisano, E. Pontelli. “Representing Multi-Agent Systems in CLP”, In *Logic Programming and Non-Monotonic Reasoning*, Springer Verlag, 2009.
97. C. Baral, T. Son, E. Pontelli. “Modeling Multi-Agent Domains in Action Languages: an Empirical Study using C”, In *Logic Programming and Non-monotonic Reasoning*, Springer Verlag, 2009.
98. A. Dal Palu, A. Dovier, E. Pontelli, G. Rossi. “Answer Set Programming using Lazy Grounding”, *International Conference on Logic Programming*, Springer Verlag, 2009.
99. T.C. Son, E. Pontelli, C. Sakama. “Logic Programming for Multiagent Planning with Negotiation”, *International Conference on Logic Programming*, Springer Verlag, 2009.
100. K. Nguyen, V. Tran, E. Pontelli, S. Tran. “Improving Performance of Conformant Planners: Static Analysis of Declarative Planning Domain Specifications”, *International Symposium on Practical Aspects of Declarative Languages*, Springer Verlag, 2009.
101. E. Pontelli, I. Pivkina, J. Haebe, R. Jensen. “Young Women in Computing: Lessons Learned from an Educational & Outreach Program”, *Symposium on Computer Science Education*, ACM Press, 2009.
102. S. Tran and E. Pontelli. “Some Results on the Completeness of Approximation Based Reasoning”, *Pacific-Rim International Conference on Artificial Intelligence*, 2008.
103. I. Pivkina, J. Francioni, A. Gates, L. Leventhal, E. Pontelli. “Recruiting High-School Women into Computer Science”, Birds of a Feather Session, *Grace Hopper Conference*, 2008.

104. B. Chisham, E. Pontelli, F. Prosdocimi, A. Stoltzfus, J. Thompson. “The Comparative Data Analysis Ontology”, *Data Integration in Life Sciences*, Paris, 2008.
105. P. Bonatti, E. Pontelli, S. Tran. “Credulous Resolution for Answer Set Programming”, *AAAI*, AAAI/MIT Press, 2008.
106. S. Tran, E. Pontelli, S. To. “Some Results on the Completeness of Approximation based Reasoning”, *AAAI Spring Symposium*, AAAI/MIT Press, 2008.
107. E. Pontelli, S. Tran, S. To, T. Phan. “Executing Action Languages for Planning Problems on Multi-core Platforms”, *Declarative Aspects of Multicore Programming*, 2008.
108. A. Dal Palu, A. Dovier, E. Pontelli. “Enhancing the Computation of Approximate Solutions of the Protein Structure Determination Problem Through Global Constraints for Discrete Crystal Lattices”, *Computational Structural Bioinformatics*, IEEE Computer Society, 2007.
109. A. Dovier, A. Formisano, E. Pontelli. “Multivalued Action Languages with Constraints in CLP(FD)”, *International Conference on Logic Programming*, Springer Verlag, 2007.
110. L. Liu, E. Pontelli, S. Tran, M. Truszczynski. “Programs with Abstract Constraint Atoms: Semantical Considerations”, *International Conference on Logic Programming*, Springer Verlag, 2007.
111. C. Liu and E. Pontelli. “Nonmonotonic Inductive Logic Programming by Instance Patterns”, *Principles and Practice of Declarative Programming*, ACM Press, 2007.
112. A. Dovier, A. Formisano, E. Pontelli. “An Experimental Comparison of Constraint Logic Programming and Answer Set Programming”, In *National Conference on Artificial Intelligence (AAAI)*, (Nectar Track), AAAI/MIT Press, 2007.
113. T. Phan, T.C. Son, E. Pontelli. “CPP: A Constraint Logic Programming Based Planner with Preferences”, In *Logic Programming and Non-Monotonic Reasoning*, Springer Verlag, 2007.
114. H. Le and E. Pontelli. “Dynamic Scheduling in Parallel Answer Set Programming Solvers”, In *High Performance Computing Symposium (HPC’07)*, ACM Press, 2007.
115. C. Liu and E. Pontelli. “Inductive Logic Programming by Instance Patterns”, In *9th International Symposium on Practical Aspects of Declarative Languages*, Springer Verlag, 2007.
116. C. Baral, E. Pontelli, T.C. Son. “A Framework for Composition and Interoperation of Rules in the Semantic Web”, In *Second International Conference on Rules and Rule Markup Languages for the Semantic Web*, IEEE Computer Society, 2006.
117. A. Dal Palu, E. Pontelli, J. He, Y. Lu. “Identification of  $\alpha$ -helices from Low Resolution Protein Density Maps”, In *Computational Systems Bioinformatics (CSB)*, Life Sciences Society, 2006.

118. T.C. Son, E. Pontelli, T. Phan. “Answer Sets for Logic Programs with Arbitrary Abstract Constraint Atoms”, In *National Conference on Artificial Intelligence (AAAI)*, AAAI/MIT Press, 2006.
119. E. Pontelli and T. Son. “Justifications for Logic Programs under Answer Set Semantics”, In *International Conference on Logic Programming*, Springer Verlag, 2006.
120. O. Elkhatib, E. Pontelli, T.C. Son. “A Tool for Knowledge Base Integration and Querying”, In *AAAI Spring Symposium*, AAAI Press, 2006.
121. A. Dal Palu, E. Pontelli, J. He, Y. Lu. “A Constraint Logic Programming Approach to 3D Structure Determination for Large Protein Complexes”, In *ACM Symposium on Applied Computing (Bioinformatics Track)*, ACM Press, 2006.
122. Y. Wu, E. Pontelli, D. Ranjan. “Computational Issues in Exploiting Dependent And-Parallelism in Logic Programming: Leftness Detection in Dynamic Search Trees”, In *12th International Conference on Logic for Programming Artificial Intelligence and Reasoning*, Springer Verlag, 2005.
123. A. Dal Palu, A. Dovier, E. Pontelli. “A New Constraint Solver for 3-D Lattices and its Application to the Protein Folding Problem”, In *12th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR)*, Springer Verlag, 2005.
124. E. Saad and E. Pontelli. “Hybrid Probabilistic Logic Programs with Non-monotonic Negation”, In *International Conference on Logic Programming*, Springer Verlag, 2005.
125. A. Dovier, A. Formisano, E. Pontelli. “A Comparison of CLP(FD) and ASP Solutions to NP-Complete Problems”, In *International Conference on Logic Programming*, Springer Verlag, 2005.
126. O. Elkhatib, E. Pontelli, T.C. Son. “Justification and Debugging of Answer Set Programs in ASP-Prolog”, In *ACM International Conference on Automated Debugging (AADEBUG)*, ACM Press, 2005.
127. O. Elkhatib, E. Pontelli, T.C. Son. “Integrating an Answer Set Solver into Prolog”, In *Logic Programming and Non-monotonic Reasoning*, Springer Verlag, 2005.
128. I. Elkabani, E. Pontelli, T.C. Son. “Smodels<sup>A</sup>: A System for Computing Answer Sets of Logic Programs with Aggregates”, In *Logic Programming and Non-monotonic Reasoning*, Springer Verlag, 2005.
129. H. Le and E. Pontelli. “An Investigation of Sharing Strategies for Answer Set Solvers and SAT Solvers”, In *EuroPar*, Springer Verlag, 2005.
130. E. Saad and E. Pontelli. “Well-founded Semantics for Hybrid Probabilistic Programs with Non-monotonic Negation”, *International Conference on Artificial Intelligence*, 2005.
131. A. Dal Palu, A. Dovier, E. Pontelli. “Heuristics, Optimizations, and Parallelism for Protein Structure Prediction in CLP(FD)”, *International Symposium on Principles and Practice of Declarative Programming*, ACM, 2005.

132. E. Pontelli. "Towards Automated Web Pages Structure Discovery: a Progress Report", HCI International, 2005.
133. E. Saad and E. Pontelli. "Towards a More Practical Hybrid Probabilistic Logic Programming Framework", International Symposium on Practical Aspects of Declarative Languages, Springer Verlag, 2005.
134. Y. Lu, J. He, E. Pontelli. "A Parallel Algorithm for Helices Mapping between 3D and 1D Protein Structure using the Length Constraints of Helices", International Symposium on Parallel and Distributed Processing and Applications, Springer Verlag, 2004.
135. K. Villaverde and E. Pontelli. "An Investigation of Scheduling in Distributed Constraint Logic Programming", International Parallel and Distributed Processing Symposium, 2004.
136. I. Elkabani, E. Pontelli, S. Tran. "Smodels with CLP and its Applications: a Simple and Effective Approach to Aggregates in ASP", International Conference on Logic Programming, Springer Verlag, 2004.
137. E. Pontelli, G. Gupta, A. Karshmer, K. Miesenberger, M. Batusic. "UMA: A System for Universal Mathematics Accessibility", In International Conference on Assistive Technologies, ACM Press, 2004.
138. Y. Pan, T. Phan, E. Pontelli, T. Son. "A Progress Report on the Development of an Agent-based Framework for Evolutionary Biology", In Declarative Agent Language Technology, Springer Verlag, 2004.
139. D. Achambault, D. Fitzpatrick, G. Gupta, A. Karshmer, K. Miesenberger, E. Pontelli. "Towards a Universal Math Conversion Library", International Conference On Computers Helping People with Disabilities, Springer Verlag, 2004.
140. O. Elkhatib, E. Pontelli, S. Tran. "A System for Reasoning about Answer Set Programs in Prolog", International Symposium on Practical Aspects of Declarative Languages, Springer Verlag, 2004.
141. E. Pontelli and R. Reddy. "Discovering Structure of Web Pages for Non-visual Navigation: Binding Control Text to Forms", International Conference on Computers Helping People with Disabilities, Springer Verlag, 2004.
142. E. Pontelli and B. Palmer. "Translating between Formats for Mathematics: Current Approach and an Agenda for Future Developments", International Conference on Computers Helping People with Disabilities, Springer Verlag, 2004.
143. I. Pivkina, E. Pontelli, T.C. Son. "Revising Knowledge in Multi-agent Systems Using Preferences", Computational Logic in Multi-agent Systems, Springer Verlag, 2004.
144. T.C. Son and E. Pontelli. "A Simple Scheme to Handle Aggregates in Smodels", International Conference on Logic Programming and Non-monotonic Reasoning, Springer Verlag, 2004.

145. T.C. Son and E. Pontelli. “Planning with Preferences using Logic Programming”, International Conference on Logic Programming and Non-monotonic Reasoning (LPNMR), Springer Verlag, 2004.
146. A. Dovier, E. Pontelli, G. Rossi. “Intensional Sets in CLP”, In International Conference on Logic Programming, Springer Verlag, 2003.
147. Y. Wu, E. Pontelli, D. Ranjan. “On the Complexity of And Parallelism in Logic Programming”, In International Conference on Logic Programming, Springer Verlag, 2003.
148. E. Pontelli, T.C. Son, K. Kottapally, C. Ngo, R. Reddy. “Towards the Creation of Accessibility Agents for Non-visual Navigation of the World Wide Web”, In ACM International Conference on Universal Usability, ACM Press, 2003.
149. T.C. Son, E. Pontelli, D. Ranjan, B. Milligan, G. Gupta. “An Agent-based Domain Specific Framework for Rapid Prototyping of Applications in Evolutionary biology”, AAMAS Workshop on Declarative Agent Languages and Technologies, 2003.
150. A. Dal Palù, A. Dovier, E. Pontelli, G. Rossi. “Integrating Finite Domain Constraints and CLP with Sets.” In ACM International Conference on Principle and Practice of Declarative Programming, ACM Press, 2003.
151. A. Dal Palù, A. Dovier, E. Pontelli, G. Rossi. “Integrating Finite Domain Constraints and CLP with Sets.” In Workshop on Functional and Logic Programming, Electronic Notes in Theoretical Computer Science, 2003.
152. K. Villaverde, E. Pontelli, H. Guo, G. Gupta. “A Methodology for the Management of Order-sensitive Execution of Non-deterministic Languages on Beowulf Platforms”, In Euro-Par, International European Conference on Parallel Processing, Springer Verlag, 2003.
153. B. Palmer and E. Pontelli. “Experiments in Translating and Navigating Digital Formats for Mathematics (A Progress Report)”, In International Conference on Human-Computer Interaction (HCI International), 2003.
154. E. Pontelli and T.C. Son. “Developing Agents for Bioinformatics Applications: A Preliminary Design”, International Conference on Distributed Processing Techniques and Applications, 2003.
155. E. Pontelli, M. Balduccini, F. Bermudez. “Non-monotonic Reasoning on Beowulf Platforms”, Symposium on Practical Aspects of Declarative Languages, Springer Verlag, 2003.
156. E. Pontelli and T.C. Son. “Reasoning about Actions in Prioritized Default Theory”, European Conference on Logics in Artificial Intelligence (JELIA), Springer Verlag, 2002.
157. E. Pontelli, D. Ranjan, G. Gupta, B. Milligan. “ $\Phi$ Log: A Domain Specific Language for Solving Phylogenetic Inference Problems”, IEEE Computer Society Bioinformatics Conference, 2002.

158. E. Pontelli and T.C. Son. “Designing Intelligent Agents to Support Universal Accessibility of the World Wide Web”, In International Conference on Internet Computing, 2002.
159. A. Dal Palù, E. Pontelli, D. Ranjan. “An Efficient Parallel Pointer Machine Algorithm for the Nearest Common Ancestor Problem”, IFIP Theoretical Computer Science Congress, 2002.
160. A. Dal Palù, E. Pontelli, D. Ranjan. “An Optimal Algorithm for Finding NCA on Pure Pointer Machines”, Eight Scandinavian Workshop on Algorithm Theory (SWAT), Lecture Notes in Computer Science, Springer Verlag, pp. 428-438, 2002.
161. E. Pontelli, W. Xiong, E. Saad, G. Gupta, D. Gillan, A. Karshmer. “Non-visual Navigation of Tables, Frames, and XML”, International Conference on Assistive Technologies, ACM Press, 2002.
162. E. Pontelli and T. Son. “Planning and Agents Technology for Non-visual Navigation of Tables”, International Conference on Assistive Technologies, ACM Press, 2002.
163. E. Pontelli, D. Ranjan. “Ancestor Problems on Pure Pointer Machines”, In Proceedings of the Latin American Theoretical Informatics Symposium (LATIN), Springer Verlag, pp. 263-277, 2002.
164. G. Gupta, E. Pontelli, D. Ranjan, A. Karshmer, H. Guo. “Semantic Filtering: A Killer App for Logic Programming”, In Proceedings of the International Symposium on Practical Aspects of Declarative Languages, Springer Verlag, pp. 82–100, 2002.
165. A. Karshmer, G. Gupta, K. Miesenberger, E. Pontelli, H. Guo. “The Development of a Tool to Enhance Communication Between Blind and Sighted Mathematicians, Students, and Teachers”, In Proceedings of 9th International Conference on Human-Computer Interaction (HCI International), Lawrence Erlbaum Publishers, 2001.
166. K. Villaverde, E. Pontelli, G. Gupta, H. Guo. “PALS: A Distributed Or-Parallel Implementation of Prolog”, In Proceedings of the International Conference on Logic Programming, Springer Verlag, pp. 27–42, 2001.
167. K. Villaverde, E. Pontelli, H. Guo, G. Gupta. “Incremental Stack Splitting Mechanisms for Efficient Parallel Implementation of Search-based AI Systems”, In International Conference on Parallel Processing, IEEE Computer Society, 2001.
168. J.R. Iglesias, G. Gupta, E. Pontelli, D. Ranjan, B. Milligan. “Logic Programming Technology for Interoperability between Bioinformatics Software Tools”, Practical Aspects of Declarative Programming, Springer Verlag, pp. 153–168, 2001.
169. E. Pontelli and O. El-Khatib. “Construction and Optimization of a Parallel Engine for Answer Set Programming”, Practical Aspects of Declarative Programming, Springer Verlag, pp. 288–303, 2001.
170. E. Pontelli. “Experiments in Parallel Execution of Answer Set Programs”, International Parallel Processing Symposium, IEEE Computer Society, 2001.

171. E. Pontelli and O. El-Khatib. “Exploiting Vertical Parallelism from Answer Set Programs.” AAAI Spring Symposium on Answer Set Programming, AAAI, pp. 174–180, 2001.
172. E. Pontelli, W. Xiong, G. Gupta, A. Karshmer. “A Domain Specific Language Framework for Non-Visual Browsing of Complex HTML Structures”, ACM International Conference on Assistive Technologies, pp. 180–187, 2000.
173. L. King, G. Gupta, E. Pontelli. “Verification of BART Controller: an Approach based on Horn Logic and Denotational Semantics”, In *High Consequence Operations System Safety and High Integrity Software*, Kluwer Academic Press, 2000. Sandia National Labs, 1999.
174. E. Pontelli. “Concurrent Web Programming in CLP(WEB)”, H. International Conferences on System Sciences (HICSS), IEEE Computer Society, 2000.
175. E. Pontelli. “Variable Bindings in And-parallel Programming on Distributed Memory Machines”, Symposium on Parallel and Distributed Computing and Systems, 1999.
176. G. Gupta and E. Pontelli. “Stack-splitting: A Simple Technique for Implementing Or-parallelism and And-parallelism on Distributed Machines”, International Conference on Logic Programming, MIT Press, pp. 290, 1999.
177. A. Dovier, C. Piazza, E. Pontelli, G. Rossi. “ACI1 Constraints”, International Conference on Logic Programming, MIT Press, 1999.
178. A. Karshmer, E. Pontelli, and G. Gupta. “Helping Visually Impaired Students in the Study of Mathematics”, Frontiers of Education Conference, IEEE, 1999.
179. G. Gupta and E. Pontelli. “Efficient Techniques for Distributed Implementations of Search-Based AI Systems”, International Conference on Parallel Processing, IEEE Computer Society, 1999.
180. A. Karshmer, E. Pontelli, G. Gupta. “Software Technology and Computer Interfaces for the Disabled: Non-visual Navigation of the World-Wide Web”, HCI International, 1999.
181. E. Pontelli, K. Deopura. “Concurrent Logic Programming for Courseware Engineering on the Web”, International Conference on Practical Applications of Constraint and Logic Programming, 1999.
182. E. Pontelli, D. Ranjan, G. Gupta. ”The Complexity of Late-binding in Dynamic Object-Oriented Languages”, International Conference on Programming Languages, Implementation, Logic, and Programs, Springer Verlag, 1998.
183. G. Gupta, E. Pontelli, A. Lara, R. Felix. ”Automatic Generation of Provably Correct Parallelizing Compilers”, International Conference on Parallel Processing, IEEE Computer Society, 1998.
184. E. Pontelli, G. Gupta. ”Efficient Backtracking in And-Parallel Implementations of Non-deterministic Languages”, International Conference on Parallel Processing, IEEE Computer Society, 1998.



185. E. Pontelli, G. Gupta, J. Wiebe, D. Farwell. "Natural Language Multiprocessing: a case study", AAAI-98, 1998.
186. A. Dovier, C. Piazza, E. Pontelli, G. Rossi. "On the Representation and Management of Finite Sets in CLP-languages", Joint International Conference and Symposium on Logic Programming, Manchester, UK, 1998.
187. E. Pontelli, G. Gupta. "W-ACE: A Logic Language for Intelligent Internet Programming", IEEE Conference on Tools with Artificial Intelligence, 1997.
188. E. Pontelli, G. Gupta. "A Constraint-Based System for Automatic Specification and Verification of Real-time Systems", IEEE Symposium on Real-Time Systems, 1997.
189. E. Pontelli, D. Ranjan, G. Gupta. "On the Complexity of Parallel Implementation of Logic Programming", Conference on Foundations of Software Technology and Theoretical Computer Science, 1997.
190. G. Gupta, E. Pontelli. "Extended Dynamic Dependent And-Parallelism in ACE", Int. Symposium on Parallel Computation, ACM, Maui, Hawaii, 1997.
191. E. Pontelli, G. Gupta. "Implementation Mechanisms for Dependent And-Parallelism", Int. Conference on Logic Programming, Leuven, Belgium, 1997.
192. R. Vaupel, E. Pontelli, G. Gupta. "Visualization of And/Or-Parallel Execution of Logic Programs", Int. Conference on Logic Programming, Leuven, Belgium, 1997.
193. F. Pulvirenti, E. Pontelli, G. Gupta, A. Ferro. "Automatic Compile-time Parallelization of Prolog Programs for Dependent And-Parallelism", Int. Conference on Logic Programming, Leuven, 1997.
194. G. Gupta, E. Pontelli. "Optimization Principles for Parallel Implementation of Nondeterministic Languages and Systems.", *1997 Int. Parallel Proc. Symposium*.
195. E. Pontelli, G. Gupta "Dependent And-Parallelism Revisited", (short paper), *Joint International Conference and Symposium on Logic Programming*, Bonn, September 1996.
196. E. Pontelli, G. Gupta "Last Alternative Optimization for Or-Parallel Logic Programming Systems", IEEE International Symposium on Parallel and Distributed Processing, New Orleans, LA, October 1996.
197. F. Bassetti, E. Pontelli, G. Gupta, K. Li, A. Malki "A Logic Programming System for Checking Graduation Requirements", International Conference on Practical Applications of Prolog, London, April 1996.
198. E. Pontelli, G. Gupta "Nester Parallel Call Optimization", *IEEE International Parallel Processing Symposium*, IEEE Computer Society, Honolulu, April 1996.
199. E. Pontelli, G. Gupta "Incremental Exploitation of Parallelism in Prolog.", *ISCA Eight International Conference on Parallel and Distributed Computing Systems*, Orlando, September 1995.

200. E. Pontelli, G. Gupta “Data Parallel Logic Programming in &ACE”, *IEEE Symposium on Parallel and Distributed Processing*, San Antonio, TX, October 1995.
201. E. Pontelli, G. Gupta “On the Duality Between And- and Or-Parallelism in Logic Programming”, *EuroPar 95*, Stockholm, Sweden, August 1995.
202. G.Gupta, V. Santos Costa, E. Pontelli “Shared paged Binding Array: A Universal Data Structure for Parallel Logic Programming”, (extended abstract), *International Conference on Logic Programming 95*, Tokyo, Japan, June 1995.
203. E. Pontelli, G. Gupta, T. DongXing “Determinacy Driven Optimization of And-parallel Prolog Implementations”, *International Conference on Logic Programming 95*, Tokyo, Japan, June 1995.
204. E. Pontelli, G. Gupta, M. Hermenegildo “A High-performance Parallel Prolog System”, *International Parallel Processing Symposium*, IEEE Computer Society, April 1995.
205. T.DongXing, E.Pontelli, G.Gupta, M.Carro “Last Parallel Call Optimization and Fast Backtracking in And-parallel Logic Programming Systems”, (extended abstract), *International Logic Programming Symposium 94*, Ithaca (New York), November 1994.
206. P. Bruscoli, A. Dovier, E. Pontelli, G. Rossi “Compiling Intensional Sets in a CLP Language”, *11th International Conference on Logic Programming (ICLP94)*, MIT Press, June 94.
207. G. Gupta, M.V. Hermenegildo, E. Pontelli, V. Santos Costa “ACE: And/Or-parallel Copying-based Execution of Logic Programs”, *11th International Conference on Logic Programming (ICLP94)*, MIT Press, June 94.
208. A. Dovier, E. Pontelli “ A WAM-based Implementation of a Logic Language with Sets”, *5th International Symposium on Programming Language Implementation and Logic Programming*, Springer Verlag, August 93, Tallinn, Estonia.
209. A. Dovier, E. Omodeo, E. Pontelli, G. Rossi “Embedding Finite Sets in a Logic Programming Language”, *3rd International Workshop on Extensions of Logic Programming*, Springer Verlag, February 92, Bologna, Italy.
210. A. Dovier, E. Omodeo, E. Pontelli, G. Rossi “{log}: A logic programming language with finite sets”, *8th International Conference on Logic Programming*, MIT Press, June 91, Paris, France.

## Other Educational Activities

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- Faculty Advisor, NMSU Chapter of Women in Computing, 2011-present.

- Faculty Advisor, NMSU Computer Science Graduate Students Organization, 2004-2008.
- Faculty Advisor, NMSU Graduate Council, 2004.
- Faculty Advisor, NMSU Circle K Club (2000 and 2001).
- Faculty Mentor, NMSU Bridges Program for Native American students, Summer 2001.
- Faculty Mentor, NMSU Bridges Program for Native American students, Summer 2002.
- Judge, NMSU Graduate Research and Arts Symposium, 2001.
- Judge and Moderator, NMSU Graduate Research and Arts Symposium, 2002.