

Igor Melatti's *Curriculum Vitae*

Univ. di Roma "La Sapienza", Dip. di Informatica, via Salaria 113, 00198 Roma
melatti@di.uniroma1.it
Tel: +39 06 4991 8438

Current and Past Positions

- From 12/30/2010 he is Assistant Professor (i.e., *Ricercatore Universitario*) at the Computer Science Department of the University of Rome "La Sapienza" (Rome, Italy)
- From 05/01/2010 to 12/29/2010 he held a Post-Doc position at the Department of Computer Science of the University of Rome "La Sapienza" (Rome, Italy), supervisor Prof. Enrico Tronci.
- From 02/01/2006 to 01/31/2010 he held a Post-Doc position at the Department of Computer Science of the University of Rome "La Sapienza" (Rome, Italy), supervisor Prof. Enrico Tronci.
- From 07/11/2005 to 12/31/2005 (and from 07/15/2006 to 09/15/2006) he had a "Post Doctoral Research Associate" position at the School of Computing of the University of Utah (Salt Lake City, UT, USA), supervisor Prof. Ganesh Gopalakrishnan.

Education

- 06/06/2005: PhD in Informatica ed Applicazioni (Computer Science and Applications), at the University of L'Aquila. The PhD thesis has the following title: "Explicit Algorithms for Probabilistic Model Checking", advisor Prof. Benedetto Intrigila. The PhD program lasted three years, with a scholarship of the Italian Ministry of the Instruction.
- 04/10/2001: degree in Informatics with the maximum score "cum laude", at the University of L'Aquila. The thesis title was "Uso di SPIN in un approccio probabilistico alla verifica automatica di sistemi concorrenti" ("Using a probabilistic approach in the automatic verification of concurrent systems with SPIN"), and the relator was the Prof. Enrico Tronci

Publications

Journal

- (j1). B. P. Hayes, I. Melatti, T. Mancini, M. Prodanovic, and E. Tronci. “Residential Demand Management using Individualised Demand Aware Price Policies.” *IEEE Transactions On Smart Grid*, to appear.
- (j2). T. Mancini, F. Mari, A. Massini, I. Melatti, and E. Tronci. “Anytime system level verification via parallel random exhaustive hardware in the loop simulation.” *Microprocessors and Microsystems* 41 (2016): 1228. ISSN: 0141-9331.
- (j3). T. Mancini, F. Mari, A. Massini, I. Melatti, and E. Tronci. “SyLVaaS: System Level Formal Verification as a Service.” *Fundam. Inform.* 149, no. 1-2 (2016): 101132.
- (j4). Federico Mari, Igor Melatti, Ivano Salvo, and Enrico Tronci. “Model Based Synthesis of Control Software from System Level Formal Specifications.” *ACM TRANSACTIONS ON SOFTWARE ENGINEERING AND METHODOLOGY* To appear (2014). ACM. ISSN: 1049-331X.
- (j5). Giuseppe Della Penna, Benedetto Intrigila, Daniele Magazzeni, Igor Melatti, and Enrico Tronci. “CGMurphi: Automatic synthesis of numerical controllers for nonlinear hybrid systems.” *European Journal of Control* 19, no. 1 (2013): 1436. Elsevier North-Holland, Inc.. ISSN: 0947-3580.
- (j6). Federico Mari, Igor Melatti, Ivano Salvo, and Enrico Tronci. “Linear Constraints and Guarded Predicates as a Modeling Language for Discrete Time Hybrid Systems.” *International Journal on Advances in Software* vol. 6, nr 1&2 (2013): 155169. IARIA. ISSN: 1942-2628.
- (j7). Federico Mari, Igor Melatti, Enrico Tronci, and Alberto Finzi. “A multi-hop advertising discovery and delivering protocol for multi administrative domain MANET.” *Mobile Information Systems* 3, no. 9 (2013): 261280. IOS Press. ISSN: 1574-017x (Print) 1875-905X (Online).
- (j8). Federico Mari, Igor Melatti, Ivano Salvo, and Enrico Tronci. “Synthesizing Control Software from Boolean Relations.” *International Journal on Advances in Software* vol. 5, nr 3&4 (2012): 212223. IARIA. ISSN: 1942-2628.
- (j9). I. Melatti, R. Palmer, G. Sawaya, Y. Yang, R. M. Kirby, and G. Gopalakrishnan. *Parallel and Distributed Model Checking in Eddy*. *STTT*, 11(1): 13–25, 2009, Springer
- (j10). G. Della Penna, B. Intrigila, D. Magazzeni, I. Melatti, A. Tofani, E. Tronci. *Automated Generation Of Optimal Controllers Through Model Checking Techniques*. *Informatics in Control, Automation and Robotics: Selected Papers from the International Conference on Informatics in Control, Automation and Robotics 2006*, pp. 107–122, 2008, Springer Publishing Company, Incorporated (book chapter)

- (j11). B. Intrigila, I. Melatti, A. Tofani, and G. Macchiarelli. Computational Models of Myocardial Endomysial Collagen Arrangement. *Computer Methods and Programs in Biomedicine*, 86(3):232–244, 2007, Elsevier North-Holland, Inc.
- (j12). G. Della Penna, B. Intrigila, I. Melatti, E. Tronci, and M. Venturini Zilli. Finite Horizon Analysis of Markov Chains with the Murphi Verifier. *STTT*, 8(4):397 – 410, 2006, Springer
- (j13). G. Della Penna, A. Di Marco, B. Intrigila, I. Melatti, A. Pierantonio. Interoperability Mapping from XML Schemas to ER Diagrams. *Data & Knowledge Engineering*, 59:166 – 188, 2006, Elsevier
- (j14). G. Della Penna, B. Intrigila, I. Melatti, E. Tronci, and M. Venturini Zilli. Exploiting Transition Locality in Automatic Verification of Finite State Concurrent Systems. *STTT*, 6(4):320–341, 2004, Springer

Proceedings of International Conferences

- (c1). V. Alimguzhin, F. Mari, I. Melatti, E. Tronci, E. Ebeid, S. A. Mikkelsen, R. H. Jacobsen, J. K. Gruber, B. Hayes, F. Huerta et al. “A Glimpse of SmartHG Project Test-bed and Communication Infrastructure.” In Digital System Design (DSD), 2015 Euromicro Conference on, 225232, 2015.
- (c2). R. Ehrig, T. Dierkes, S. Schaefer, S. Roebnitz, E. Tronci, T. Mancini, I. Salvo, V. Alimguzhin, F. Mari, I. Melatti et al. ”An integrative approach for model driven computation of treatments in reproductive medicine.” In Proceedings of the 15th International Symposium on Mathematical and Computational Biology (BIOMAT 2015), Rorkee, India, 2015.
- (c3). T. Mancini, F. Mari, I. Melatti, I. Salvo, E. Tronci, J. K. Gruber, B. Hayes, M. Prodanovic, and L. Elmegaard. “User Flexibility Aware Price Policy Synthesis for Smart Grids.” In Digital System Design (DSD), 2015 Euromicro Conference on, 478485, 2015.
- (c4). Toni Mancini, Federico Mari, Annalisa Massini, Igor Melatti, and Enrico Tronci. “Simulator Semantics for System Level Formal Verification.” In Proceedings Sixth International Symposium on Games, Automata, Logics and Formal Verification (GandALF 2015).
- (c5). Toni Mancini, Federico Mari, Annalisa Massini, Igor Melatti, and Enrico Tronci. “SyLVaaS: System Level Formal Verification as a Service.” In Proceedings of the 23rd Euromicro International Conference on Parallel, Distributed and Network-based Processing (PDP 2015), special session on Formal Approaches to Parallel and Distributed Systems (4PAD)., 2015.
- (c6). Toni Mancini, Enrico Tronci, Ivano Salvo, Federico Mari, Annalisa Massini, and Igor Melatti. ”Computing Biological Model Parameters by Parallel Statistical Model Checking.” International Work Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015) 9044 (2015): 542554.

- (c7). Toni Mancini, Federico Mari, Annalisa Massini, Igor Melatti, and Enrico Tronci. “System Level Formal Verification via Distributed Multi-Core Hardware in the Loop Simulation.” In Proc. of the 22nd Euromicro International Conference on Parallel, Distributed and Network-Based Processing. IEEE Computer Society, 2014.
- (c8). Toni Mancini, Federico Mari, Annalisa Massini, Igor Melatti, and Enrico Tronci. “Anytime System Level Verification via Random Exhaustive Hardware In The Loop Simulation.” In Proceedings of 17th EuroMicro Conference on Digital System Design (DSD 2014)., 2014.
- (c9). Enrico Tronci, Toni Mancini, Federico Mari, Igor Melatti, Milan Prodanovic, Jorn Gruber, Barry Hayes, Lars Elmegaard. “Demand-Aware Price Policy Synthesis and Verification Services for Smart Grids.” In Proceedings of SartGridComm 2014.
- (c10). Enrico Tronci, Toni Mancini, Federico Mari, Igor Melatti, Rune Jacobsen, Ehmadi Ebeid, Soren Mikkelsen, Milan Prodanovic, Jorn Gruber, and Barry Hayes. “SmartHG: Energy Demand Aware Open Services for Smart Grid Intelligent Automation.” In Proceedings of the Work in Progress Session of SEAA/DSD 2014, 2014. ISBN: 978-3-902457-40-0
- (c11). Toni Mancini, Ivano Salvo, Federico Mari, Igor Melatti, Annalisa Massini, Stefano Sinisi, Enrico Tronci, Francesco Davi, Thomas Dierkes, Ronald Ehrig et al. “Patient-Specific Models from Inter-Patient Biological Models and Clinical Records.” In Proc. of Formal Methods in Computer-Aided Design (FMCAD 2014).
- (c12). F. Mari, I. Melatti, I. Salvo, and E. Tronci, From Boolean Relations to Control Software. In Proc. of the Sixth International Conference on Software Engineering Advances *ICSEA '11*, ISBN: 978-1-61208-165-6
- (c13). F. Cavaliere, F. Mari, I. Melatti, G. Minei, I. Salvo, E. Tronci, G. Verzino, and Y. Yushtein, Model Checking Satellite Operational Procedures. In Proc. of the Eurospace DATA Systems In Aerospace Conference *DASIA '11*, ESA Proceedings ESA SP-694, ISBN 978-92-9092-258-2
- (c14). F. Mari, I. Melatti, I. Salvo, E. Tronci. Synthesis of Quantized Feedback Control Software for Discrete Time Linear Hybrid Systems. In Proc. of the 22nd International Conference on Computer Aided Verification *CAV '10*, volume 6174 of *Lecture Notes in Computer Science*, pages 180–195. Springer, 2010.
- (c15). S. Mazzini, S. Puri, F. Mari, I. Melatti, E. Tronci, Formal Verification at System Level. In ESA SP-669, Proc. of the Eurospace DATA Systems In Aerospace Conference *DASIA '09*, ESA Proceedings ESA SP-669, ISBN 978-92-9221-233-9
- (c16). A. Bobbio, E. Ciancamerla, S. Di Blasi, A. Iacomini, F. Mari, I. Melatti, M. Minichino, A. Scarlatti, E. Tronci, R. Terruggia, E. Zendri. Risk analysis of SCADA systems interconnecting Power Grids and Telco Networks via heterogeneous models and tools. In Proc. of the 4th International Conference on Risks and Security of Internet and Systems *CRISIS '09*, pages 90–97, IEEE Proceedings.

- (c17). F. Mari, I. Melatti, I. Salvo, E. Tronci, L. Alvisi, A. Clement and H. Li. Model Checking Coalition Nash Equilibria in MAD Distributed Systems. In Rachid Guerraoui and Franck Petit, editors, *Stabilization, Safety, and Security of Distributed Systems, 11th International Symposium, SSS 2009, Lyon, France, November 3-6, 2009. Proceedings*, volume 5873 of *Lecture Notes in Computer Science*, pages 531–546. Springer, 2009.
- (c18). F. Mari, I. Melatti, I. Salvo, E. Tronci, L. Alvisi, A. Clement and H. Li. Model Checking Nash Equilibria in MAD Distributed Systems. In Proc. of the 8th Conference on Formal Methods in Computer Aided Design *FMCAD '08* (IEEE Computer Society).
- (c19). F. Brizzolari, G. Della Penna, I. Melatti, E. Tronci. Disk Based Software Verification via Bounded Model Checking. In Proc. of the 14th Asia-Pacific Software Engineering Conference *APSEC '07* (IEEE Computer Society).
- (c20). G. Della Penna, D. Magazzeni, A. Tofani, B. Intrigila, I. Melatti, E. Tronci. Automatic Synthesis of Robust Numerical Controllers. In Proc. of the 3rd International Conference on Autonomic and Autonomous Systems *ICAS '07* (IEEE Computer Society).
- (c21). G. Della Penna, B. Intrigila, D. Magazzeni, I. Melatti, A. Tofani, E. Tronci. Automatic Generation Of Optimal Controllers Through Model Checking Techniques. Proceedings of 3rd International Conference on Informatics in Control, Automation and Robotics (ICINCO 2006)
- (c22). G. Della Penna, B. Intrigila, I. Melatti, M. Pecorari, A. Tofani, E. Tronci. A Case Study on Automated Generation of Integration Tests. Proceedings of Forum on specification & Design Languages (FDL 2006)
- (c23). I. Melatti, R. Palmer, G. Sawaya, Y. Yang, R. M. Kirby, and G. Gopalakrishnan. Parallel and Distributed Model Checking in Eddy. A. Valmari, editor, *Model Checking Software, 13th International SPIN Workshop, Vienna, Austria, March 30 – April 1, 2006, Proceedings*, volume 3925 of *Lecture Notes in Computer Science*. Springer, 2005.
- (c24). B. Intrigila, D. Magazzeni, I. Melatti, A. Tofani, E. Tronci. A Model Checking Technique for the Verification of Fuzzy Control Systems. IEEE proceedings of the *International Conference on Computational Intelligence for Modelling Control and Automation (CIMCA 2005)*.
- (c25). G. Della Penna, B. Intrigila, I. Melatti, and E. Tronci. Exploiting Hub States in Automatic Verification. D.A. Peled and Y.-K. Tsay, editors, *Automated Technology for Verification and Analysis: Third International Symposium, ATVA 2005, Taipei, Taiwan, October 4-7, 2005, Proceedings*, volume 3707 of *Lecture Notes in Computer Science*, pages 54–68. Springer, 2005.
- (c26). B. Intrigila, G. Macchiarelli, I. Melatti, A. Tofani. Computational Models of the Micro Architecture of the Cardiac Endomysial Collagen. *IFMBE Proceedings EMBEC'05 "3rd European Medical & Biological Engineering Conference, IFMBE European Conference on Biomedical Engineering"*, Vol. 11, 2005, Prague, Czech Republic, CD

- (c27). G. Della Penna, B. Intrigila, I. Melatti, E. Tronci, and M. Venturini Zilli. Bounded Probabilistic Model Checking with the Murphi Verifier. In Carlo Blundo and Cosimo Laneve, editors, *Formal Methods in Computer-Aided Design, 5th International Conference, FM-CAD 2004, Austin, TX, USA, November 14-17, 2004, Proceedings*, volume 3312 of *Lecture Notes in Computer Science*, pages 214–229. Springer, 2004.
- (c28). G. Della Penna, B. Intrigila, I. Melatti, E. Tronci, and M. Venturini Zilli. Finite Horizon Analysis of Markov Chains with the Murphi Verifier. In Daniel Geist and Enrico Tronci, editors, *Correct Hardware Design and Verification Methods, 12th IFIP WG 10.5 Advanced Research Working Conference, CHARME 2003, L'Aquila, Italy, October 21-24, 2003, Proceedings*, volume 2860 of *Lecture Notes in Computer Science*, pages 394–409. Springer, 2003.
- (c29). G. Della Penna, B. Intrigila, I. Melatti, E. Tronci, and M. Venturini Zilli. Integrating Ram and Disk Based Verification within the Murphi Verifier. In Daniel Geist and Enrico Tronci, editors, *Correct Hardware Design and Verification Methods, 12th IFIP WG 10.5 Advanced Research Working Conference, CHARME 2003, L'Aquila, Italy, October 21-24, 2003, Proceedings*, volume 2860 of *Lecture Notes in Computer Science*, pages 277–282. Springer, 2003.
- (c30). G. Della Penna, B. Intrigila, I. Melatti, E. Tronci, and M. Venturini Zilli. Finite Horizon Analysis of Stochastic Systems with the Murphi Verifier. In Carlo Blundo and Cosimo Laneve, editors, *Theoretical Computer Science, 8th Italian Conference, ICTCS 2003, Bertinoro, Italy, October 13-15, 2003, Proceedings*, volume 2841 of *Lecture Notes in Computer Science*, pages 58–71. Springer, 2003.
- (c31). G. Della Penna, B. Intrigila, I. Melatti, M. Minichino, E. Ciancamerla, A. Parisse, E. Tronci, and M. Venturini Zilli. Automatic Verification of a Turbogas Control System with the Murphi Verifier. In Oded Maler and Amir Pnueli, editors, *Hybrid Systems: Computation and Control, 6th International Workshop, HSCC 2003 Prague, Czech Republic, April 3-5, 2003, Proceedings*, volume 2623 of *Lecture Notes in Computer Science*, pages 141–155. Springer, 2003.
- (c32). G. Della Penna, A. Di Marco, B. Intrigila, I. Melatti, A. Pierantonio. Xere: Towards a Natural Interoperability between XML and ER Diagrams. In Mauro Pezzè, editor, *Fundamental Approaches to Software Engineering, 6th International Conference, FASE 2003, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2003, Warsaw, Poland, April 7-11, 2003, Proceedings*, volume 2621 of *Lecture Notes in Computer Science*, pages 356–371. Springer, 2003.

Research software

- QKS (*Quantized Kontrol Synthesizer*, a preliminary version is available at http://mclab.di.uniroma1.it/software_qks.html) implements the algorithms for automatic synthesis of control software described in (c14) and (c12). QKS takes in input:
 - the description of the system to be controlled (*plant*) as a Discrete Time Linear Hybrid System
 - the description of the AD/DA conversion to be used (i.e., the number of bits of AD/DA conversion)
 - the formal specifications of the closed loop system (desired controllable region and goal region).QKS outputs a software that implements the quantized controller, satisfies the formal specifications of the closed loop system and has a guaranteed and precomputed WCET (*Worst Case Execution Time*).
- NashMV (a preliminary version is available at <http://mclab.di.uniroma1.it/software.html#nashmv>). NashMV implements the algorithm described in (c18), by properly modifying the NuSMV model checker.
- Parallel Murphi (Eddy_Murphi, available at http://www.cs.utah.edu/formal_verification/software/murphi). Eddy_Murphi is a parallel version (i.e., it runs at *computer clusters*) of the model checker Murphi. It implements the algorithm described in (c23) and (j9), by means of MPI (Message Passing Interface) and POSIX *threads* in Linux/Unix.
- 64-bits Murphi (CMurphi 5.4.6, available at <http://mclab.di.uniroma1.it/software.html#cmurphi>). Murphi port for 64-bits architectures.
- Finite Horizon Probabilistic Murphi (CMurphi 5.4.6, available at <http://mclab.di.uniroma1.it/software.html#cmurphi>). FHP-Murphi (Finite Horizon Probabilistic Murphi, see (j12), (c27), (c28), (c30)), is a model checker able to verify finite horizon probabilistic properties of discrete time stochastic processes. It has been used for the verification of probabilistic protocols and to evaluate complex systems reliability. FHP-Murphi may handle finite precision real numbers, thus it is also used to verify nonlinear stochastic hybrid systems.
- Caching & Disk Murphi (CMurphi 5.4.6, available at <http://mclab.di.uniroma1.it/software.html#cmurphi>). CMurphi (see (c25), (j14), (c31)), is an improved version of the Murphi verifier. CMurphi exploits transition locality in the system transition function in order to lower the RAM requirements and to speed up disk-based algorithms. CMurphi has been used by INTEL to verify Cache Coherence Protocols. Finally, CMurphi may handle finite precision real numbers, thus it is also used to verify nonlinear hybrid systems.

Teaching

- At the Sapienza University of Rome, I am responsible for the class of “Programmazione per il Web” (Web Programming, academic years from 2014/2015 to 2016/2017) for the Computer Science course
- At the Sapienza University of Rome, I am responsible for the class of “Sistemi Operativi (II modulo)” (II Part of Operating Systems, academic years from 2014/2015 to 2016/2017) for the Computer Science course
- At the Sapienza University of Rome, I was responsible for the class of “Informatica” (Informatics, academic years from 2011/2012 to 2013/2014) for the Statistics course

Selected Research Projects

As a member of MCLab (*Model Checking Laboratory*, research group of the Department of Computer Science at Sapienza University of Rome, coordinated by prof. Enrico Tronci) he takes part to many research projects funded by EC (European Community), ESA (European Space Agency), ENEA (Italian National agency for new technologies, Energy and sustainable economic development), CNR (National Research Council), MIUR (Italian Ministry for the Research and University), MSE (Ministry of Economic Development) and private industries. This leads to a continuous osmosis between research results and advanced industrial applications. Here is selected list of projects (please note that, for the projects from 2006 onwards, he also cooperated to the project proposal):

SmartHG 2012–2015 *Energy Demand-Aware Open Services for Smart Grid Intelligent Automation* is a FP7 EU project. The SmartHG Platform helps Distributed Systems Operators in reducing maintenance and operations cost, improving grid performance, reducing CO2 emissions for society and energy cost for residential users.

PAEON 2013–2016 *Model Driven Computation of Treatments for Infertility Related Endocrinological Diseases* is a FP7 EU project. Paeon goal is to support medical scientists in carrying out clinical trials on virtual patients by means of computer simulations.

ESA ITI AO6067 - 2010 *Model Checker Validator for Satellite Operational Procedure*. The goal of this Innovation Triangle Initiative (ITI) of ESA is to design and implement a model checker for the Validation and Verification of satellites Operational Procedures (OP). MCLab contribution is focused on the design of the OP model checker and on its interface with ESA simulator SIMSAT.

WFR (MSE) - 2010 *Web Fitting Room* is a projected funded by MSE for the program “Industria 2015”. The goal of WFR is to design and implement a web based system for the on-demand production of clothes, by connecting via Web a virtual fitting room (where clothes are virtually dressed) and a Decision Support System (DSS) which, in real time, organizes the production of the selected clothes. MCLab role focuses on the design and implementation of the DSS by using Model Checking based Planning to counteract the state explosion problem arising in DSSs of the type discussed above.

ULISSE (EC FP7) - 2009 *USOCs KnowLedge Integration and Dissemination for Space Science Experimentation* is a project funded by EC inside the program FP7. MCLab role in this project is to study model checking techniques for the automatic verification of procedures and plans related to on-board experiments on space stations (e.g. Columbus).

SAPP (FILAS) - 2008 *Advanced System for the Design and Planning of Wireless Networks* is a project funded by FILAS (local Italian agency). MCLab role in this project is to design and implement algorithms for the fault tolerant placement of relay nodes of a wireless network, given the models for the antennas and the positions of gateway e sensor nodes. The goal is to guarantee that, even if k relay nodes are faulty, the network satisfies the given specifications.

ESA 5459 SSFRT - 2008 *System and Software Functional Requirements Techniques* is a project funded by ESA, having INTECS as project main contractor. MCLab role in this

project is to study if model checking techniques for hybrid systems are applicable to the automatic verification of system requirements for satellites and generic space vehicles. Models for these requirements involves both software and systems (sensors and actuators) the software interacts with. This motivates the usage of hybrid systems to model, validate and verify such systems.

SINTESI - 2008 *Automatic Synthesis of Reaction Rules for Enterprise Processes Management* is a project funded by MIUR. MCLab role in this project is to design and implement new model checking based algorithms for the automatic synthesis of reaction rules in SaR (Sense and Respond) systems for the enterprise processes management, focusing on automatic allocation of resources in multimedia enterprises.

CRESCO (MIUR) - 2007 *Computational Center for the Research on Complex Systems*. MCLab entered this project as advisor for University of Salento. MCLab role in this project is to design and implement algorithms for the automatic analysis of vulnerability indices for networks and telecommunication services.

Peer-to-peer reviewing activity

He has served and serves as peer-to-peer reviewer for the following international journals:

- JLAMP (Journal of Logical and Algebraic Methods in Programming)
- IEEE Distributed Systems Online
- International Journal of Business Data Communications and Networking.

He has served and serves as peer-to-peer reviewer for the following international conferences:

- SPIN (Workshop on Model Checking of Software)
- ETAPS (European Joint Conferences on Theory and Practice of Software)
- HSCC (Hybrid Systems: Computation and Control)
- CAV (Computer Aided Verification)
- FMCAD (Formal Methods for Computer-Aided Design)
- ICSEA (Conference on Software Engineering Advances)
- PSI (Ershov Informatics Conference)
- ICALP (International Colloquium on Automata, Languages and Programming)
- SAT (Theory and Applications of Satisfiability Testing)
- LICS (Logic In Computer Science)
- CHARME (Correct Hardware Design and Verification Methods).