

Alberto Lluch Lafuente - Curriculum Vitae (up to April 7, 2009)

Personal Information

Surnames	Lluch Lafuente
First name	Alberto
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Nationality	Spaniard
Date of birth	13 April 1976

Summary

2007 - today	Post-doc research collaborator of Prof. Ugo Montanari at the Department of Computer Science of the University of Pisa, granted by the European Project SENSO-RIA . Research activities on formal methods for service oriented computing.
2006	Analyst/Developer for the Cabel Group at Empoli. Development of a project on interbank financial telecommunications.
2003 - 2005	Post-doc research collaborator of Prof. Ugo Montanari at the Department of Computer Science of the University of Pisa, granted by the European Research Training Network SEGRAVIS . Research activities on formal methods for global computing systems.
1999 - 2003	Ph.D. in Computer Science at the Institute of Computer Science of the University of Freiburg. Thesis on the application of heuristic search for the verification of communication protocols, an approach called <i>Directed Model Checking</i> , whose contributions to this approach are considered as seminal works . Research and teaching assistant of Prof. Dr. Thomas Ottmann and Prof. Dr. Stefan Leue.
1999	Best final average performance award by the <i>Kutxa</i> bank at San Sebastián.
1994 - 1999	Master of Science in Computer Science Engineering degree at the University of the Basque Country.
1998	EU Socrates/Erasmus grant hosted at the Albert-Ludwigs Universität in Freiburg.

Work Experience

<p>Jan 2007 - present Main activities Hosting Institution Granting Institution Sector</p>	<p>Research contract holder. Research activities on formal methods for service oriented computing. Department of Computer Science of the University of Pisa, Italy, www.di.unipi.it. European Union within the FET-GCII FP6 Integrated Project IST-2005-016004 SENSORIA, sensoria.fast.de. Academy (Research).</p>
<p>Apr 2006 - Dec 2006 Main activities Employer Sector</p>	<p>Analyst/Developer. Development of straight-through-processing applications for interbank financial communications. CABEL Group, Empoli, Italy, www.cabel.it. Information Technology (Banking).</p>
<p>Nov 2003 - Apr 2005 Main activities Hosting Institution Granting Institution Sector</p>	<p>Research contract holder. Research activities on formal methods for global computing systems. Department of Computer Science of the University of Pisa, Italy, www.di.unipi.it European Union within the European Research Training Network HPRN-CT-2002-00275 SEGRAVIS, www.segravis.org. Academy (research).</p>
<p>Aug 1999 - Sep 2003 Main activities Employer Granting institution Sector</p>	<p>Research and Teaching Assistant. Responsible for the DFG Project Ot64/13-2 <i>Heuristische Suche und Anwendung auf das Problem der Protokollvalidation</i> (Heuristic Search and its Application to Protocol Validation). Research activities on formal methods and artificial intelligence for communication systems. Teaching assistant of Prof. Dr. Prof. Thomas Ottmann and Prof. Dr. Stefan Leue. Chair of Algorithms and Data Structures lead by Prof. Dr. Thomas Ottmann at the Institute of Computer Science, <i>Albert-Ludwigs-Universität</i>, Germany, www.informatik.uni-freiburg.de. <i>Deutsche Forschung Gemeinschaft</i> (German Research Foundation), www.dfg.de. Academy (Research and Teaching).</p>

Teaching Activities

Fall 2008	<i>Rigorous Software Development via Model Checking</i> (PhD Seminar), Teaching assistant of Prof. Gianluigi Ferrari at the University of Pisa (Italy).
Spring 2003	<i>Computational Geometry</i> (Graduate Course, 6 ECTS credits, around 50 students), Teaching assistant of Prof. Dr. Thomas Ottmann at the Albert-Ludwigs-Universität in Freiburg (Germany).
Spring 2002	<i>Computational Geometry</i> (Graduate Course, 6 ECTS credits, around 50 students), Teaching assistant of Prof. Dr. Thomas Ottmann at the Albert-Ludwigs-Universität in Freiburg (Germany).
Fall 2001	<i>Introduction to Applied Computer Science I</i> (Graduate Course of a master programme for international students coming from developing countries, 6 ECTS credits, around 50 students), Teaching assistant of Prof. Dr. Thomas Ottmann at the Albert-Ludwigs-Universität in Freiburg (Germany).
Spring 2000	<i>Computer Networks</i> (Graduate Course, 6 ECTS credits, around 10 students), Teaching assistant of Prof. Dr. Stefan Leue at the Albert-Ludwigs-Universität in Freiburg (Germany).

Research Activities

Fields	Formal methods , with a special emphasis on logic-based specification and verification. Development of novel specification mechanisms, verification algorithms and optimization techniques, mostly based on the use of logic, graphs and heuristics, and particularly focused on the domains of communication systems and service oriented computing.
Main achievement	Co-invention and promotion of <i>Directed Model Checking</i> , an approach to automated software verification based on artificial intelligence techniques. Contribution with seminal works to this field, cited by dozens of research works, according to various sources (ACM, Google Scholar, Citeseer).
Projects	Member of the European Project SENSORIA , responsible for developing formal approaches to dynamic reconfiguration of service oriented applications. Former member of the European Research Training Network SEGRAVIS and the German Research Project DFG Ot64/13-2. Collaborator of the European FET project PRO-FUNDIS, the Italian FIRB Project TOCAI.IT, and the German DFG projects <i>Heuristic Search</i> Ed 74/3 and <i>Directed Model Checking</i> Ed 74/2.
Event Organisation	Former member of the Program Comitee of the 14th Workshop on Model Checking Software (SPIN '07). Reviewer for international journals and events including top-level conferences like POPL.

Education and Training

May 2004	School on Foundations of Visual Modelling Techniques by the European Research Training Network SEGRAVIS held at the international research center <i>Schloss Dagstuhl</i> in Germany.
Aug 1999 - Jun 2003	Ph.D. on formal methods and artificial intelligence for communication systems at the Albert-Ludwigs-Universität in Freiburg (Germany), partially granted by the <i>Deutsche Forschung Gemeinschaft</i> (German Research Foundation).
Thesis title	Directed Search for the Verification of Communication Protocols.
Level achieved	<i>Sehr gut</i> (Optimal).
Academic year 1998/1999	European Community Socrates/Erasmus grant hosted at the Albert-Ludwigs-Universität in Freiburg (Germany).
1994 - 1999	<i>Ingeniero en Informática</i> (Master of Science in Computer Science Engineering) at the University of the Basque Country (Spain).
Thesis title	Analysis of Transport Protocols in Hybrid Networks.
Level achieved	Thesis Performance: 10/10 <i>Matrícula de Honor</i> . Average performance: 8,11/10. Awarded prize by the <i>Kutxa</i> bank at San Sebastián (Spain) for best final average performance in <i>Ingeniero en Informática</i> at the University of the Basque Country (Spain).
1994	High School Graduation at the <i>Deutsche Schule San Alberto Magno</i> at San Sebastián (Spain).
1987 - 1993	Computer programming courses at the <i>Colegio Católico Santa María</i> at San Sebastián (Spain).

Selected Software Products

ADR	Architectural Design Rewriting (ADR) is a research approach for the design of re-configurable software systems, conceived in the spirit of conciliating software architectures and process calculi by means of graphical methods. It has been applied to service oriented high-level modelling languages and process calculi . The tool support of ADR is currently under development, strongly based on based the Maude language and engine. A first prototypical version has been presented at an international workshop and is available for download at www.albertolluch.com/adr/ .
HSF-SPIN	HSF-SPIN is an experimental model checker that can be seen as an extension of the SPIN model checker with artificial intelligence techniques. The tool implements various heuristics and algorithms to guide automated verification of a software model towards bugs. In some cases, it is able to find shorter bug traces and to explore larger models than the original SPIN. The tool has been used to support results presented at various international journals and events and is a available for download at www.albertolluch.com/research/tools .
AAM	AAM is an industrial software application that supports straight-to-processing of interbank financial communications . Incoming communications (mainly fund transfers) coming from various sources and in heterogeneous formats (like those of the Society for Worldwide Interbank Financial Telecommunication) are uniformly introduced into the bank database system, offering a transparent view to banking operators. The application runs in Italian headquarters of various National and International banks (names omitted to guarantee privacy) running software of the Cabel Group (www.cabel.it).

Personal Skills and Competences

Mother tongue(s)	Spanish.
Other language(s)	Italian (very good), English (good), German (good).
Computer skills and competences	Languages experienced: Ada, Alloy, Assembly, Basic/Visual Basic, C/C++, CGI, Cobol, Java, JavaScript, HTML, Lisp, Maude, Pascal, PHP, Prolog, ILE RPG, SQL, TCL/TK, UML, XML and others; User-, system- and development-level experience with the operating systems Unix/Linux, Mac, Windows, iSeries (AS/400).

Additional Information

Volunteering	Volunteering at the <i>ARCA onlus (Associazione Amici Animali e Ambiente)</i> at Empoli from February 2005 until July 2006.
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Publications

Journals

- J5 Dragan Bošnački, Stefan Leue, Alberto Lluch Lafuente, "Partial-Order Reduction for General State Exploring Algorithms", *International Journal on Software Tools for Technology Transfer (STTT)*, ISSN 1433-2779, Volume 11, Number 1, pages 39-51, February 2009.
- J4 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, Emilio Tuosto, "Style-Based Architectural Reconfigurations", *Bulletin of the European Association on Theoretical Computer Science (EATCS)*, Number 94, pages 161-180, February 2008.
- J3 Alberto Lluch Lafuente, Ugo Montanari, "Quantitative mu-calculus and CTL defined over Constraint Semirings", *special issue on Quantitative Aspects of Programming Languages of the International Journal on Theoretical Computer Science (TCS)*, ISSN 0304-3975, Volume 346, Issue 1, pages 135-160, November 2005.
- J2 Stefan Edelkamp, Stefan Leue, Alberto Lluch Lafuente, "Partial-Order Reduction and Trail Improvement in Directed Model Checking", *International Journal on Software Tools for Technology Transfer (STTT)*, ISSN 1433-2779, Volume 6, Number 4, pages 277-301, August 2004.
- J1 Stefan Edelkamp, Stefan Leue and Alberto Lluch Lafuente, "Directed Explicit-State Model Checking in the Validation of Communication Protocols", *International Journal on Software and Tools for Technology Transfer (STTT)*, ISSN 1433-2779, Volume 5, Numbers 2-3, pages 247-267, March 2004.

Events (to appear)

- E24 Andrea Bracciali, Roberto Bruni, Alberto Lluch Lafuente, "On Symbolic Semantics for Name-decorated Contexts", *Proceedings of the 1st Interaction and Concurrency Experience (ICE'08)*, Elsevier Electronic Notes in Theoretical Computer Science .
- E23 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, "Hierarchical Design Rewriting with Maude", *Proceedings of the 7th International Workshop on Rewriting Logic and its Applications (WRLA'08)*, Elsevier Electronic Notes in Theoretical Computer Science .

Events

- E19 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, Emilio Tuosto, "Service Oriented Architectural Design", *Proceedings of the 3rd International Symposium on Trustworthy Global Computing (TGC'07)*, Springer Lecture Notes in Computer Science, Volume 4912, ISBN 978-3-540-78662-7, 2008.
- E18 Fabio Gadducci, Alberto Lluch Lafuente, "Graphical Encoding of a Spatial Logic for the pi-calculus", *Proceedings of the 2nd Conference on Algebra and Coalgebra in Computer Science (CALCO'07)*, Springer Lecture Notes on Computer Science, Volume 4624, ISBN 978-3-540-73857-2, 2007.
- E17 Alberto Lluch Lafuente, "Towards Model Checking Spatial Properties with SPIN", *Proceedings of the 14th International SPIN Workshop on Model Checking Software (SPIN'07)*, Springer Lecture Notes on Computer Science, Volume 4595, ISBN 978-3-540-73857-2, 2007.
- E16 Paolo Baldan, Andrea Corradini, Barbara König, Alberto Lluch Lafuente, "A Temporal Graph Logic for Abstractions of Graph Rewriting Systems", *Proceedings of the 18th International Workshop on Algebraic Development Techniques (WADT'06)*, Springer Lecture Notes in Computer Science, Volume 4409, ISBN 978-3-540-73369-0, 2007.
- E15 Stefan Edelkamp, Shahid Jabbar, Alberto Lluch Lafuente, "Heuristic Search for the Analysis of Graph Transition Systems", *Proceedings of the 3rd International Conference on Graph Transformation (ICGT'06)*, Springer Lecture Notes in Computer Science, Volume 4178, ISBN 978-3-540-71997-7, 2006.
- E14 Dragan Bošnački, Stefan Leue, Alberto Lluch Lafuente, "Partial-Order Reduction for General State Exploring Algorithms", *Proceedings of the 13th International SPIN Workshop on Model Checking Software (SPIN'06)*, Springer Lecture Notes on Computer Science, Volume 3925, ISBN 978-3540331025, 2006.
- E13 Dan Hirsch, Alberto Lluch Lafuente, Emilio Tuosto, "A Logic for Application Level QoS", *Proceedings of the 3rd Workshop on Quantitative Aspects of Programming Languages (QAPL'05)*, Elsevier Electronic Notes on Theoretical Computer Science, Volume 5, Issue 2, ISSN 0304-3975, 2005.

- E12 Fabio Gadducci, Alberto Lluch Lafuente, "Graphical Verification of a Spatial Logic for the pi-calculus", *Proceedings of the 1st Workshop on Graph Transformation for Verification and Concurrency (GTVC'05)*, Elsevier Electronic Notes in Theoretical Computer Science, Volume 142, ISSN 0304-3975, 2005.
- E11 Gianluigi Ferrari, Alberto Lluch Lafuente, "A Logic for Graphs with QoS", *Proceedings of the 1st Workshop on Views On Designing Complex Architectures (VODCA'04)*, Elsevier Electronic Notes in Theoretical Computer Science, Volume 142, ISSN 0304-3975, 2006.
- E10 Stefan Edelkamp, Shahid Jabbar, Alberto Lluch Lafuente, "Cost-Algebraic Heuristic Search", *Proceedings of the 20th National Conference on Artificial Intelligence (AAAI'05)*, ISBN 978-1-57735-236-5, AAAI Press / The MIT Press, 2005.
- E9 Stefan Edelkamp, Shahid Jabbar, Alberto Lluch Lafuente, "Action Planning for Graph Transition Systems", *Proceedings of the 1st ICAPS Workshop on Verification and Validation of Model-Based Planning and Scheduling Systems (VVPS'05)*, AAAI Press, 2005.
- E8 Javier Rubio-Loyola, Joan Serrat, Marinos Charalambides, Paris Flegkas, Georgu Pavlou, Alberto Lluch Lafuente, "Using Linear Temporal Logic for Goal-Oriented Policy Refinement Frameworks", *Proceedings of the 6th IEEE Workshop on Policies for Distributed Systems and Networks (POLICY'05)*, ISBN 0-7695-2265-3, IEEE Computer Society, 2005.
- E7 Alberto Lluch Lafuente, Ugo Montanari, "Quantitative mu-calculus and CTL based on Constraint Semirings", *Proceedings of the 2nd Workshop on Quantitative Aspects of Programming Languages (QAPL'04)*, Elsevier Electronic Notes on Theoretical Computer Science, Volume 112, ISSN 0304-3975, 2005.
- E6 Stefan Edelkamp, Alberto Lluch Lafuente, "Abstraction Databases", *Proceedings of the 1st ICAPS Workshop on Connecting Planning Theory with Practice*, AAAI Press, 2004.
- E5 Alberto Lluch Lafuente, "Symmetry Reduction and Heuristic Search for Error Detection in Model Checking", *Proceedings of the 2nd Workshop on Model Checking and Artificial Intelligence (MOCHART'03)*, AAAI Press, 2003.
- E4 Alberto Lluch Lafuente, Stefan Leue and Stefan Edelkamp, "Partial Order Reduction in Directed Model Checking", *Proceedings of the 9th International SPIN Workshop on Model Checking Software (SPIN'02)*, Springer Lecture Notes on Computer Science, Volume 2318, ISBN 3-540-43477-1, 2002.
- E3 Stefan Edelkamp, Alberto Lluch Lafuente and Stefan Leue, "Trail-Directed Model Checking", *Proceedings of the 1st Workshop on Software Model Checking (SOFTMC'01)*, Elsevier Electronic Notes on Theoretical Computer Science, Volume 55, Number 3, ISSN 0304-3975, 2001.
- E2 Stefan Edelkamp, Alberto Lluch Lafuente and Stefan Leue, "Directed Explicit Model Checking with HSF-SPIN", *Proceedings of the 8th International SPIN Workshop on Model Checking Software (SPIN'01)*, Springer Lecture Notes on Computer Science, Volume 2057, ISBN 3-540-42124-6, 2001.
- E1 Stefan Edelkamp, Alberto Lluch Lafuente and Stefan Leue, "Protocol Verification with Heuristic Search", *Proceedings of the AAAI Spring Symposium on Model-Based Validation of Intelligence*, ISBN 1-57735-132-0, 2001.

Book Chapters

- C1 Roberto Bruni, Antonio Bucchiarone, Stefania Gnesi, Dan Hirsch, Alberto Lluch Lafuente, "Graph-Based Design and Analysis of Dynamic Software Architectures", *Concurrency, Graphs and Models. Essays Dedicated to Ugo Montanari on the Occasion of His 65th Birthday*, Springer Lecture Notes in Computer Science, Volume 6065, ISBN 978-3-540-68676-7, 2008.

Position Papers

- P1 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, Emilio Tuosto, "Architectural Design Rewriting as an Architecture Description Language", Position paper at the *The Rise and Rise of the Declarative Datacentre research meeting*, Microsoft Research Cambridge.

Thesis

- T2 Alberto Lluch Lafuente, "Directed Search for the Verification of Communication Protocols", PhD Thesis, *Freiburger Dokument Server, Institute of Computer Science, University of Freiburg*, June 2003.
- T1 Alberto Lluch Lafuente, "Analysis of Transport Protocols in Hybrid Networks", Master Thesis, *Instituto de Informática, Universidad del País Vasco*, June 1999.

Technical Reports

- R7 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, Emilio Tuosto, "Style-Based Architectural Reconfigurations", *Technical Report TR-07-17, Dipartimento di Informatica, Università di Pisa*, 2007.
- R6 Dragan Bošnački, Stefan Leue, Alberto Lluch Lafuente, "Partial-Order Reduction for General State Exploring Algorithms", *Technical Report soft-05-02, Chair for Software Engineering, University of Konstanz*, 2005.
- R5 Stefan Edelkamp, Alberto Lluch Lafuente, "Abstraction Databases", *Technical Report 196, Institut für Informatik, Universität Freiburg*, 2004.
- R4 Alberto Lluch Lafuente, "First Attempts to Combine Symmetry Reduction and Heuristic Search for Error Detection", *Technical Report 184, Institut für Informatik, Universität Freiburg*, 2003.
- R3 Alberto Lluch Lafuente, "Simplified Distributed LTL Model Checking by Localizing Cycles", *Technical Report 176, Institut für Informatik Universität Freiburg*, 2002.
- R2 Alberto Lluch Lafuente, Stefan Edelkamp, Stefan Leue "Partial Order Reduction in Directed Model Checking", *Technical Report 162, Institut für Informatik, Universität Freiburg*, 2001.
- R1 Alberto Lluch Lafuente, Stefan Edelkamp, Stefan Leue "Directed Explicit-State Model Checking in the Validation of Communication Protocols", *Technical Report 161, Institut für Informatik, Universität Freiburg*, 2001.

Project Deliverables

- D5 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, Daniele Terreni, "Hierarchical graph models of extended core calculi", *Sensoria Deliverable D5a*, 2008.
- D4 Laura Bocchi, José Luiz Fiadeiro, Alessandro Lapadula, Alberto Lluch Lafuente, Rosario Pugliese, Francesco Tiezzi, "From Architectural to Behavioural Specifications", *Sensoria Thematic Deliverable Th01.b*, 2008.
- D3 Laura Bocchi, Carlo Montanero, Nora Koch, Philip Mayer, Andreas Schroeder, Laura Semini, José Luis Fiadeiro, Antonia Lopes, Roberto Bruni, Alberto Lluch Lafuente, Alessandro Lapadula, Rosario Pugliese, Francesco Tiezzi, Ivan Lanese, Carlo Guidi and Gianluigi Zavattaro, "Relationship Among Case Studies and Theme 1 Results", *Sensoria Deliverable D8.5*, 2008.
- D2 Alberto Lluch Lafuente, Laura Bocchi, Roberto Bruni, José Luis Fiadeiro, Antonia Lopes, Ugo Montanari, Birna van Riemsdijk, Emilio Tuosto, Martin Wirsing. "Requirements for Automated Reconfiguration and Specification of Policy Run-time Support", *Sensoria Deliverable D5.3.b*, 2007.
- D1 Roberto Bruni, Alberto Lluch Lafuente, Ugo Montanari, Gianluigi Zavattaro, "Advanced Calculi for Services", *Sensoria Thematic Deliverable Th02.a*, 2007.

Reviews

MKP	Book to be published by Morgan Kaufmann Publishers (Elsevier).
DKE	Article submitted to the International Journal on Data & Knowledge Engineering (DKE), 2009. Published by Elsevier.
STTT	Article submitted to the International Journal on Software Tools for Technology Transfer (STTT), 2009. Published by Springer Verlag.
IJCAI	Articles submitted to the International Joint Conferences on Artificial Intelligence, 2009. Proceedings published by AAAI Press.
PETRI	Article submitted to the International Conference on Application and Theory of Petri Nets and Other Models of Concurrency (PETRI NETS), 2009. Proceedings published by Springer Verlag.
FSEN	Article submitted to the International Conference on Fundamentals of Software Engineering (FSEN), 2009. Proceedings published by Springer Verlag.
FOSSACS	Article submitted to the International Conference on Foundations of Software Science and Computation Structures (FOSSACS), 2009. Proceedings published by Springer Verlag.
SAC	Article submitted to the Annual ACM Symposium on Applied Computing (SAC), 2009. Proceedings published by ACM Press.
POPL	Article submitted to the International Symposium on Principles of Programming Languages (POPL), 2009. Proceedings published by ACM Press.
SOFSEM	Articles submitted to the International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEFM), 2009. Proceedings published by Springer.
WADT	Article submitted to the International Workshop on Algebraic Development Techniques (WADT), 2008. Proceedings published by Springer.
RULE	Article submitted to the International Workshop on Rule-Based Programming (RULE), 2008. Proceedings published by Elsevier.
FEST	Articles submitted to the Festschrift volume <i>Concurrency, Graphs and Models. Essays Dedicated to Ugo Montanari on the Occasion of His 65th Birthday</i> , 2008. Published by Springer Verlag.
ICGT	Article submitted to the International Conference on Graph Transformation (ICGT), 2008. Proceedings published by Springer Verlag.
AMAST	Article submitted to the International Conference on Algebraic Methodology and Software Technology (AMAST), 2008. Proceedings published by Springer Verlag.
LDTA	Article submitted to the 8th Workshop on Language Description, Tools and Applications (LDTA), 2008. Proceedings published by Elsevier.
TGC	Article submitted to the International Symposium on Trustworthy Global Computing (TGC), 2007. Proceedings published by Springer Verlag.
CALCO	Articles submitted to the International Conference on Algebras and Coalgebras (CALCO), 2007, 2009. Proceedings published by Springer Verlag.
FI	Article submitted to the International Journal Fundamenta Informaticae, 2006. Published by IOS Press.
CONCUR	Articles submitted to the International Conference on Concurrency Theory (CONCUR), 2006, 2007, 2008. Proceedings published by Springer Verlag.
SPIN	Articles submitted to the International Spin Workshop on Software Model Checking (SPIN), 2005, 2006, 2007. Proceedings published by Springer Verlag.
COORD	Articles submitted to the International Conference on Coordination Models and Languages (COORDINATION), 2005, 2008. Proceedings published by Springer Verlag.
TCS	Article submitted to the Theoretical Computer Science Journal, special issue on Quantitative Aspects of Programming Languages, 2005. Published by Elsevier.
SOSYM	Article submitted to the Software and System Modeling Journal, special section on Graph Transformation and Visual Modeling Techniques, 2004. Published by Springer Verlag.
FORTE	Article submitted to the International Conference on Formal Techniques for Networked and Distributed Systems (FORTE), 2002. Proceedings published by Springer Verlag.
TERM	Article submitted to the International Workshop on Computing with Terms and Graphs (TERM-GRAPH), 2009. Proceedings published by Elsevier.