

Curriculum Vitae

Cesare Pautasso

Contact Information

Private Address

Sentiero Vinorum 3
CH-6900 Massagno
+41 (0)79 464 0729

Work Address

Faculty of Informatics, USI
Via G. Buffi 13
CH-6900 Lugano
+41 (0)58 666 4311

Email & WWW Addresses

cesare.pautasso@usi.ch
c.pautasso@ieee.org
<http://www.pautasso.info>
@pautasso

Date of Birth 9 December 1975

Languages Italian, English, German, Spanish, French

Current Position

Associate Professor (since September 2013)

Faculty of Informatics, Università della Svizzera Italiana (USI), Lugano, Switzerland

Academic Employment History

Assistant Professor (September 2007-August 2013)

Faculty of Informatics, Università della Svizzera Italiana (USI), Lugano, Switzerland

Researcher (February 2007-August 2007)

IBM Zurich Research Lab, Computer Science Department, Rueschlikon, Switzerland

Senior Research and Teaching Assistant (July 2004-January 2007)

Information and Communication Systems (IKS) Research Group

Institute for Pervasive Computing, Dept. of Computer Science, ETH Zurich, Switzerland

Education

Maître de conférences (26 January 2007) - N° 07227182069 – Section 27 (Informatique)

Ph.D. in Computer Science (July 2004)

ETH Zurich, Switzerland

PhD Thesis Title: A Flexible System for Visual Service Composition

Advisor: Prof. Gustavo Alonso (ETH Zurich, Switzerland)

Co-advisor: Prof. Stefano Ceri (Politecnico di Milano, Italy).

Computer Science Engineering Degree (Laurea in Ingegneria Informatica) **cum laude** (April 2000)

Politecnico di Milano, Italy, Advisor: Prof. Alfonso Fuggetta

High School Diplomas

Diploma di Maturità Scientifica, Liceo Scientifico "P.Giovio", Como, Italy 60/60 (July 1994)

High School Diploma, Carroll High School, Southlake, Texas, USA, AFS Exchange Student (May 1993)

Research Interests

Autonomic Computing

Business Process Management

Cloud and Service-Oriented Computing

Software Architecture (REST, Architectural Decision Modeling)

Software Composition (Web 2.0 Mashups)

Research Projects

SNSF (Swiss National Science Foundation)

PPP - Fundamentals of Parallel Programming for Platform-as-a-Service Clouds

(Co-PI, 2014-2017) SNF Grant Nr. 153560 – collab. With Prof. Walter Binder, USI

SOSOA – Self-Organizing Service Oriented Architectures

(Co-PI, 2010-2014) SNF SINERGIA Grant Nr. 127386

in collaboration with Prof. Walter Binder, USI, Prof. Boi Faltings, EPFL,

Prof. Heiko Schuldt, Universität Basel

Research Projects

(Continued)

BenchFlow - A Benchmark for Workflow Management Systems

(PI, 2013-2016) SNF DACH Grant Nr. 145062 - collab. with Prof. Dr. Frank Leymann, U. Stuttgart, D

CLAVOS – Continuous Lifelong Analysis and Verification of Open Services

(PI, 2009-2013) SNF Grant Nr. 125337

in collaboration with Prof. Carlo Ghezzi, Politecnico di Milano, Italy

Hasler Foundation, Switzerland

SMARTWORLD, “Liquid Software Architecture” and “Liquid Web Streams” (PI, 2012-2015)

MANCOM, **Managing the Complexity of Information and Communication Systems**

“Compiling Optimized Service Architectures” (PI, 2007-09)

in collaboration with Prof. Gustavo Alonso, ETH Zurich and Prof. Heiko Schuldt, Universität Basel

DICS, **Dependable Information and Communication Systems** (Member, 2002-05) project “BioOpera”

CTI (Commission for Technology and Innovation), Switzerland

SpottedMap (PI, 2014-2015) 16328.1 PFES-ES**Elastic Cloud Platform for Social Networking** (PI, 2013) 15107.1 PFES-ES

SUC (Swiss University Conference) AAA/SWITCH (e-Infrastructure for e-Science, 2009-2011)

Swiss Multi-Science Computing Grid I, II, Virtual EZ-Grid, Swiss Grid Portal, USI Desktop Grid I, II,**USI Virtual Grid**

EU Commission

SCUBE, **Software Services and Systems Network**

(Associated Member, 2009-12) EU NOE IST-FP7-215483, with Prof. Mehdi Jazayeri, USI

RESERVOIR, **Resources and Services Virtualization without Barriers**

(Member, 2008-11) EU IP IST-FP7-215605

SUPER, **Semantics Utilized for Process Management within and between Enterprises**

(Member, 2006-09) EU IP IST-FP6-026850

AEOLUS, **Algorithmic Principles for Building Efficient Overlay Computers**

(WP Leader, 2005-09) EU IP FET IST-15964

SODIUM, **Service-Oriented Development in a Unified framework**

(WP Leader, 2004-07) EU STREP IST-FP6-004559

ADAPT, **Middleware Technologies for Adaptive and Composable Distributed Components**

(Member, 2002-05) EU IST-2001-37126

INRIA COLORS Action

Arigatoni on Wheels (Co-PI, 2007)

in collaboration with Dr. Luigi Liquori (INRIA), Prof. Claudio Casetti (Politecnico di Torino, Italy)

Honors and Awards

Best Paper Award, 10th International Conference on Web Engineering (ICWE 2010)

Invited Papers:

3rd Symposium on Applications of Graph Transformations with Industrial Relevance (AGTIVE 2007)5th European Dependable Computing Conference (EDCC 2005)

Invited Speaker:

Workshop on Leveraging REST and Web Technologies in Enterprise Service Systems, CASCON 2013

CHOOSE Forum 2012 (Swiss Group for Object-Oriented Systems and Environments)

Workshop on Leveraging REST and Web Technologies in Enterprise Service Systems, CASCON 2012

University Teaching

Faculty of Informatics, USI, Switzerland

Master of Science in Informatics

Software Architecture and Design (Spring Semester 2008, SS2009, SS2010, SS2011, SS2012, SS2014)**Business Process Modeling, Management and Mining** (SS 2014)

Bachelor of Science in Informatics

Software Atelier 3 - Web 2.0 Technology (Fall Semester 2007-2015)**Privatissimum** (FS 2015)

Department of Computer Science, ETH Zurich, Switzerland

Master of Science in Distributed Systems

Enterprise Application Integration (Middleware) (Winter Semester 2004/05, WS 2005/06, WS2006/07)

Bachelor in Computer Science

Distributed Systems (WS 2004/05)

Undergraduate Seminars

Data Provenance and Lineage Tracking Research Seminar (SS 2006)

Distributed Process Support Systems Seminar (WS 2005/06)

Invited Lectures

Department of Computer Science, ETH Zurich, Switzerland

SOA with REST (SOA and Web Services Lecture, Summer Semester 2009)

RESTful Web Services (SOA and Web Services Lecture, SS2008)

SOAP vs. REST (SOA and Web Services Lecture, SS2007)

Faculty of Informatics, USI, Switzerland

SOA and Web Services (Topics in Informatics, Fall Semester 2009, FS2010)

Internet Mashups (Informatica08 Roadshow, November 2008, in Italian)

Mashups: Software Composition for the Web (Software Atelier III, April 2007)

Industry Training

Industry Training (in-house)

IT-Architecture: Integration Technologies and Practices in the Cloud

at AWK Group, Zurich (June 2014)

Service-Oriented Application Architecture and EAI,

at AWK Group, Zurich (June 2008-2010, May 2011, April 2012, May 2013)

SOA and Web 2.0: Concepts, Technologies, and Applications, at IBM Zurich Research Lab (July 2007)

Application Architecture and EAI, at AWK Group, Zurich (May 2006)

Advanced Web Services, at Swisscom Mobile, Bern, Switzerland (November 2005)

Industry Courses (at the Dept. of Computer Science, ETH Zurich, Switzerland)

Service Oriented Architectures and Web Services (March 2006, September 2006, February 2007)

Web Services: Concepts, Architectures and Applications (September 2003)

Conference Tutorials

SOA with REST: Principles, Patterns, and Constraints, SATURN 2013, Minneapolis (April 2013)

REST: The Emerging Architectural Style for Service Oriented Computing,

ICSE 2011 Technical Briefing, Honolulu, Hawaii, USA (May 2011)

Service Oriented Architectures for the REST of us, SATURN 2011, San Francisco, USA (May 2011)

Design Principles, Patterns and Emerging Technologies for RESTful Web Services,

ICWE 2010, Vienna, Austria (July 2010)

RESTful Web Services: Principles, Patterns, Emerging Technologies, WWW 2010, Raleigh, NC (April 2010)

From SOA to REST: Designing and Implementing RESTful Services,

ICWE 2009, San Sebastian, Spain (June 2009)

From SOA to REST: Designing and Implementing RESTful Services,

WWW 2009, Madrid, Spain (April 2009)

Summer Schools

SW Technologies and Development for Multi-Device Environments, Inforte Summer School, Tampere, Finland (June 2015)

WS-* vs. RESTful Services, SSAIE Summer School, Crete, Greece (June 2010)

Scientific and Grid Workflow Management, Swiss Grid School, Lugano, Switzerland (June 2010)

Scientific and Grid Workflow Management, Swiss Grid School, Geneva, Switzerland (May 2009)

Enterprise Application Integration and Web Services,

11th International Summer School of Novel Computing, Lappeenranta, Finland (August 2004)

Web Services: Concepts, Architectures and Applications, University of Aalborg, Denmark (May 2004)

Student Supervision

(since 2002)

Post-Doctoral Researchers

- Dr. Achille Peternier, Self-Organizing Service Oriented Architectures (from February 2010)
- Dr. Francesco Lelli, e-Infrastructure
(2008-2010, now at the European Research Institute in Service Science, Tilburg University, NL)

Doctoral Students**Research and Academic Advisor**

- Ana Ivanchikj, RESTful BPM (from February 2015)
- Andrea Gallidabino, Liquid Software (from October 2014)
- Vincenzo Ferme, Workflow Benchmarking (from September 2014)
- Masiar Babazadeh, Liquid Software (From October 2012)
- Vasileios Triglianos, ASQ (From September 2012)
- Dr. Saeed Aghaee, Natural Web 2.0 Mashups (May 2010-February 2014)
- Dr. Daniele Bonetta, Parallel JavaScript (March 2010-September 2014)
- Dr. Marcin Nowak, Software Architecture Decision Modeling (March 2009-September 2014)

Research Co-Advisor

- Dr. Thomas Heinis, Workflow-based Services: Infrastructure for Scientific Applications
(Diss. ETH 18217, 19 January 2009,
now at the Data-Intensive Applications and Systems Laboratory, EPF Lausanne, Switzerland)
- Dr. Björn Biörnstad, A Workflow Approach to Stream Processing
(Diss. ETH 17600, 20 December 2007, now at adesso Schweiz AG, Zurich, Switzerland)

PhD Dissertation Committee (External Member)

- Dr. Nenad Stojnić, Self-Organizing Distributed Workflow Management
(University of Basel, Switzerland, 13 May 2015)
- Dr. Patrick Gaubatz, Definition and Enforcement of Access Constraints in Collaborative Processes
(PhD, University of Vienna, Austria, 24 April 2015)
- Dr. Daniele Romano, Analyzing the Change-Proneness of APIs and Web APIs
(Delft University of Technology, The Netherlands, 7 January 2015)
- Dr. Jesus Bellido, Dynamic Composition of RESTful services
(Pontificia Universidad Catolica de Chile, 12 December 2014)
- Dr. Irum Rauf, Design and Validation of Stateful Composite RESTful Web Services
(Åbo Akademi University, 16 June 2014)
- Dr. Janne Kuuskeri, Engineering Web Applications: Architectural Principles for Web Software
(Tampere University of Technology, Finland, 14 February 2014)
- Dr. Luca Panziera, Service Matchmaking: Exploiting the Web (University of Milano-Bicocca)
- Dr. Dieter Roller, Throughput Improvements for BPEL Engines: Implementation Techniques and Measurements Applied to SWoM, (Universität Stuttgart, 26 July 2013)
- Dr. Stefano Soi, Domain Specific Mashup Platforms as a Service
(University of Trento, 22 March 2013)
- Dr. Marco Funaro, A Reference Model and a Run-Time Support for Pervasive Adaptive Systems
(Politecnico di Milano, Italy, 8 February 2012)
- Dr. Vlad Trifa, Building Blocks for a Participatory Web of Things: Devices, Infrastructures, and Programming Frameworks
(ETH Zurich, Switzerland, 26 August 2011)
- Dr. Eduardo Gonçalves da Silva, User-centric Service Composition
(University of Twente, NL, 11 May 2011)

PhD Dissertation Committee (Internal Member)

- Dr. Mathias Bjoerkqvist, Resource Management of Replicated Service Systems Provisioned in the Cloud (USI and IBM Research, 11 February 2015)
- Dr. Nemanja Memarovic, Interacting Places - Networked Public Displays That Stimulate Community Interaction, (22 August 2014)
- Dr. Aibek Sarimbekov, Workload Characterization of JVM Languages (9 May 2014)
- Dr. Fernando Olivero, Object-focused Environments Revisited, (15 April 2013)
- Dr. Mehdi Mirzaaghaei, Automatic Test Suite Evolution (9 November 2012)
- Dr. Alessio Gambi, Kriging based Self-Adaptive Controllers for the Cloud (16 October 2012)

Doctoral Students

(Continued)

- Dr. Alessandra Gorla, Automatic Workarounds: Exploiting the Intrinsic Redundancy of Software Systems (1 July 2011)
- Dr. Adina Mosincat, Enhancing Service-oriented Systems with Autonomic Capabilities (4 April 2011)
- Dr. Sasa Nestic, Semantic Document Architecture for Desktop Data Integration and Management (30 November 2010)
- Dr. Marco D'Ambros, On the Evolution of Source Code and Software Defects (19 October 2010)
- Dr. Richard Wettel, Software Systems as Cities (21 September 2010)

Master Students

USI Master of Science in Informatics (Thesis Supervisor)

- Masiar Babazadeh, Distributed Atomic Transactions over RESTful Services, July 2012
- Andrea Reber, Developing Mashups with JOpera, June 2010
- Lucia Rusconi, Grid Middleware Integration: the JOpera/NorduGrid ARC Adapter, July 2009

USI Master of Science in Management and Informatics (Thesis Supervisor)

- Pasha Binyatov, ASQ Video with Captis.js, January 2015
- Ana Ivanchikj, Static Process Model Analysis for Workflow Benchmarking, September 2014
- Mahdi Hajibeygi, A Business Model For Crowdsourced Mashup Development, July 2013

USI Master of Science in Communication (Thesis Co-Supervisor)

- Paolo Riviello, Model-Driven Design for small scale multimedia applications: usability assessment, July 2012

Università di Firenze, Laurea Specialistica in Ingegneria Informatica (Thesis Co-Supervisor)

- Umberto Monile, Progettazione e Realizzazione di un Sistema REST per la risoluzione di URI Aliases, April 2011

ETHZ Master in Computer Science (Thesis Supervisor)

- Fabian Pichler, A Java Type System for JOpera, March 2007
- Urs Blum, Advanced Autonomic Control Policies for JOpera, April 2007
- Lukas Fuelleman, Advanced Data provenance for JOpera, April 2007
- Andreas Bur, Model Driven Engineering Framework for JOpera, September 2006
- Patrick Jayet, Lineage Tracking in JOpera, September 2006
- Adrian Listyo, Integration of Heterogeneous Data Streams in JOpera, February 2006
- Oliver Deak, Grid Service Execution for JOpera, June 2005

ETHZ Diploma Thesis

- Sven Ruetti, Graph Layout for JOpera, December 2005
- Antonio Caliano, Automatic Layout, April 2003
- Markus Haller, Web Service Execution for BioOpera, March 2003
- Christian Rupp, Building an Application Server for BioOpera, January 2003
- Reto Schaeppi, Large Scale Processing of Microarray Data, June 2002
- Martin Grueter, Security and Multiuser Support for BioOpera, September 2002

Undergraduate Students

USI Bachelor Thesis

- Luca Urso, Charging Poles Finder (at Porsche Engineering), 2014
- Jacques Dafflon, ASQ Peer Assessment, 2014
- Wahed Mehran, chancemap.com, 2012
- Andrea Gallidabino, Observing RESTful Web Services with WebSockets in real-time, 2012
- Nicos Giuliani, Web-based Interactive Mashup Development with JOpera, 2011
- Masiar Babazadeh, Web-Based Visualization of Architectural Knowledge, 2010
- Adnan Al Hariri, JOpera Component Library, 2009

USI Undergraduate Research Opportunities (Summer Internships)

- Carlo Vanini, JSDot, Summer 2010
- Masiar Babazadeh, Web-based Visualization of Architectural Knowledge, Summer 2010
- Mark Pruneri, Workflow Support for Volunteer Computing, Summer 2009
- Alejandro Garcia, ADViz: Browser-based Visualization of Architectural Decision Spaces, Summer 2008

Organization of Academic Conferences and Workshops

Steering Committee Member

ESOCC European Conference on Service-Oriented and Cloud Computing

General Chair

ECOWS 2011 9th IEEE European Conference on Web Services,
Sept. 14-16, 2011, Lugano (<http://ecows2011.inf.usi.ch>)

Program Committee Chair

Conferences

ICSOC 2013 11th International Conference on Service-Oriented Computing

ECOWS 2010 8th European Conference on Web Services

SC 2008 7th International Symposium on Software Composition (at ETAPS 2008)

Workshops

WS-REST 2010-13 1st, 2nd, 3rd, and 4th International Workshop on RESTful Design
(at WWW 2010, 2011, 2012, 2013)

Mashups'08-10 2nd, 3rd, and 4th International Workshop on Services Mashups and Web APIs
(at ICSOC08, OOPSLA09, ECOWS10)

MDE4BPM 2008 1st International Workshop on Model Driven Engineering for Business Process
Management (at BPM2008)

WEWST 06, 07 1st and 2nd Workshop on Emerging Web Services Technology
(at ECOWS 2006, 2007)

Industry Track Program Chair

ICWE 2013-15 13th, 14th, 15th International Conference on Web Engineering

Panel Chair

ICSOC 2012 10th International Conference on Service-Oriented Computing

Tutorial Chair

ICWE 2011 11th International Conference on Web Engineering

Doctoral Consortium Chair

ICSOC 2011 7th International Conference on Service-Oriented Computing

ICWE 2010 10th International Conference on Web Engineering

Publicity Chair

ESOCC 2015 4th European Conference on Service-Oriented and Cloud Computing

BPM 2012 10th International Conference on Business Process Management

EuroSys 2012 7th European Conference on Computer Systems

Workshop Chair

ESOCC 2012 1st European Conference on Service-Oriented and Cloud Computing

Journal Review

ACM Computing Surveys

ACM Transactions on Software Engineering and Methodology (TOSEM)

ACM Transactions on the Web (TWEB)

Computing

Distributed and Parallel Databases

Future Generations Computer Systems

IEEE Distributed Systems Online

IEEE Internet Computing

IEEE Software

IEEE Transactions on Industrial Informatics

IEEE Transactions on Services Computing

IEEE Transactions on Software Engineering (TSE)

Information Systems

Journal Review

(continued)

Information Systems Research
 International Journal of Cooperative Information Systems
 Journal of Computer and System Sciences
 Journal of Systems and Software
 Journal of Web Engineering
 Scientific Programming
 Service Oriented Computing and Applications
 Software: Practice and Experience
 Software Process: Improvement and Practice
 VLDB Journal

Grant Proposal Review

Swiss National Science Foundation (**SNSF**)
 U.S. National Science Foundation (**NSF**)
 EU Commission - **FET Open Program**
 Short Proposal Evaluation (May 2009-November 2012)
 XTrack Proposal Evaluation (*February 2013-June 2013*)
 Panel Evaluation (March 2009)
 Academy of Finland (Computer Science Review Panel, February 2014 and February 2015)
 Natural Sciences and Engineering Research Council of Canada (**NSERC**)
 Netherlands Organisation for Scientific Research (**NWO**)
 Israel Science Foundation (**ISF**)
 Austrian Academy of Science (**AAS**)

Reviewer

Selected Conferences

ICSE 2013
SRDS 2011
CHI 2008
Models 2008
Grid 2007
Middleware 2006

Editorial Advisory and Review Boards

Special Issue on "Engineering Middleware for Service-Oriented Computing"
 of the International Journal of Systems and Service-Oriented Engineering (IJSSOE), 2010
New Frontiers in Information and Software as Service, LNBIP, Springer, 2010
SOA Design Patterns, SOAPatterns.org, 2009

Books and Book Proposals

Wiley
Prentice Hall

Professional Memberships

ACM (since 2004)
 IEEE (Senior Member since 2011)
 IEEE Software Editorial Board (since 2015)
 IEEE Computer Society (since 1996)
 IFIP WG on Service-Oriented Systems (since 2011)
 European BPM Roundtable (since 2012)
 EnterpriseWeb LLC (Advisory Board Member since 2010)
 SARIT, Swiss Association for Research in Information Technology (2007-2010)
 S-I, Swiss Informatics Society (since 2010)

The complete and up-to-date list of publications is available at <http://www.pautasso.info/>

Journals

1. Seeking Your Insights, C. Pautasso, O. Zimmermann, **IEEE Software**, 32(2): 7-9, March-April, 2015.
2. NaturalMash: Cooking the Web, Easily, S. Aghaee, C. Pautasso, **Journal of Visual Languages & Computing (JVLC)**, Elsevier, 25(4):414-432, August 2014.
3. Improving execution unit occupancy on SMT-based processors through hardware-aware thread scheduling, A. Peternier, D. Ansaloni, D. Bonetta, C. Pautasso, W. Binder, **Journal of Future Generation Computer Systems**, Elsevier, 30:229-241, January 2014, DOI: 10.1016/j.future.2013.06.015
4. High Performance Execution of Service Compositions: a Multicore-aware Engine Design, A. Peternier, C. Pautasso, W. Binder, D. Bonetta, **Concurrency and Computation: Practice and Experience**, Wiley, DOI: 10.1002/cpe.2948 (in press)
5. Kriging Controllers for Cloud Applications, G. Toffetti, A. Gambi, M. Pezzè, C. Pautasso, **IEEE Internet Computing**, DOI: 10.1109/MIC.2012.142 (in press)
6. Programmatic Interfaces for Web Applications, T. Vitvar, S. Vinoski, C. Pautasso, **IEEE Internet Computing**, 16(4): 11-14, Jul/Aug 2012
7. Information Quality in Mashups, C. Cappiello, F. Daniel, M. Matera, C. Pautasso, **IEEE Internet Computing**, 14(4): 14-22, Jul/Aug 2010
8. Peer Reviewing Interdisciplinary Papers, M. Pautasso, C. Pautasso, **European Review (ERW)**, Cambridge University Press, 18(2): 227-237, May 2010
9. RESTful Web Service Composition with BPEL for REST, C. Pautasso, **Data and Knowledge Engineering (DKE)**, Elsevier, 68(9): 851-866, May 2009
10. swissPIT: a Novel Approach for Pipelined Analysis of Mass Spectrometry Data, A. Quandt, P. Hernandez, A. Masselot, C. Hernandez, S. Maffioletti, C. Pautasso, R. Appel, F. Lisacek, **Bioinformatics**, Oxford University Press, 24(11): 1416-1417, June 2008
11. Autonomic Resource Provisioning for Software Business Processes, C. Pautasso, T. Heinis, G. Alonso, **Information and Software Technology (IST)**, Elsevier, 49(1): 65-80, January 2007
12. Enforcing Web Services Business Protocols at Run-Time: a Process Driven Approach, B. Biörnstad, C. Pautasso, G. Alonso, **International Journal of Web Engineering and Technology (IJWET)**, Inderscience, 2(4): 396-411, July 2006
13. The JOpera Visual Composition Language. C. Pautasso, G. Alonso, **Journal of Visual Languages and Computing (JVLC)**, Elsevier, 16(1-2):119-152, February-April 2005
14. JOpera: a Toolkit for Efficient Visual Composition of Web Services, C. Pautasso, G. Alonso, **International Journal of Electronic Commerce (IJEC)**, M.E.Sharpe, 9(2):107-141, Winter 2004/2005

Conferences

10. Towards Liquid Web Applications, T. Mikkonen, K. Systä, and C. Pautasso, Proc. of the **15th International Conference on Web Engineering (ICWE 2015)**, Rotterdam, NL, June 2015.
11. Liquid Stream Processing across Web browsers and Web servers, M. Babazadeh, A. Gallidabino, C. Pautasso, Proc. of the **15th International Conference on Web Engineering (ICWE 2015)**, Rotterdam, NL, June 2015.
12. asqium: A JavaScript Plugin Framework for Extensible Client and Server-side Components, V. Triglianios, C. Pautasso, Proc. of the **15th International Conference on Web Engineering (ICWE 2015)**, Rotterdam, NL, June 2015.
13. A conversation based approach for modeling REST APIs, F. Haupt, F. Leymann, and C. Pautasso, Proc. of the **12th Working IEEE / IFIP Conference on Software Architecture (WICSA 2015)**, Montreal, Canada, May 2015 (28.4%).
14. The Case for Workflow System Benchmarking: Open Research Challenges, C. Pautasso, D. Roller, F. Leymann, V. Ferme, and M. Skouradaki, Proc. of the **16. Fachtagung Datenbanksysteme für Business, Technologie und Web (BTW)**, Hamburg, Germany, March 2015.
15. On the Road to Benchmarking BPMN 2.0 Workflow Engines, M. Skouradaki, V. Ferme, F. Leymann, C. Pautasso, and D. Roller, Proc. Of the **6th ACM/SPEC International Conference on Performance Engineering**, Austin, TX, USA, January 2015.
16. The Stream Software Connector Design Space: Frameworks and Languages for Distributed Streaming Pipelines, M. Babazadeh, C. Pautasso, Proc. of the **11th Working IEEE/IFIP Conference on Software Architecture (WICSA 2014)**, Sydney, Australia, April 2014. (acceptance rate: 21.1%)

Conferences

(Continued)

17. Natural End-User Development of Web Mashups, S. Aghaee, C. Pautasso, A. De Angelis, Proc. of the **29th IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2013)**, San Jose, CA, USA, September 2013 (30%)
18. Team Situational Awareness and Architectural Decision Making with the Software Architecture Warehouse, M. Nowak, C. Pautasso, Proc. of the **7th European Conference on Software Architecture (ECSA 2013)**, Montpellier, France, July 2013 (30%)
19. Guidelines for Efficient and Effective End-User Development of Mashups, S. Aghaee, C. Pautasso, Proc. of the **Fourth International Symposium on End-User Development (IS-EUD 2013)**, Copenhagen, Denmark, p. 260-265, June 2013 (45%)
15. Tiger Quoll: Parallel Event-based JavaScript, D. Bonetta, W. Binder, C. Pautasso, Proc. of the **18th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming (PPoPP 2013)**, Shenzhen, China, February 2013 (18%)
16. Hardware-aware Thread Scheduling: the Case of Asymmetric Multicore Processors, A. Peternier, D. Ansaloni, D. Bonetta, C. Pautasso, W. Binder. Proc. of the **18th International Conference on Parallel and Distributed Systems (ICPADS 2012)**, Singapore, December 2012 (acceptance rate: 29%)
17. Node.Scala: Implicit Parallel Programming for High-Performance Web Services, D. Bonetta, A. Peternier, D. Ansaloni, C. Pautasso, W. Binder, Proc. of the **International European Conference on Parallel and Distributed Computing (EuroPar 2012)**, Rhodes Island, Greece, pp. 626-637, August 2012 (33%)
18. Reusable Decision Space for Mashup Tool Design, S. Aghaee, M. Nowak, C. Pautasso, Proc. of the **4th ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS 2012)**, Copenhagen, Denmark, pp. 211-220, June 2012 (22%)
19. Specification Patterns from Research to Industry: a Case Study in Service-based Applications. D. Bianculli, C. Ghezzi, C. Pautasso, P. Senti. Proc. of the **34th International Conference on Software Engineering (ICSE 2012), SEIP track**, Zurich, Switzerland, pp. 968-976, June 2012 (18%)
20. S: a Scripting Language for High-Performance RESTful Web Services, D. Bonetta, A. Peternier, C. Pautasso, W. Binder, Proc. of the **17th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming (PPoPP 2012)**, New Orleans, USA, pp. 97-106, February 2012 (15%)
21. Push-Enabling RESTful Business Processes, C. Pautasso, E. Wilde, Proc. of the **9th International Conference on Service Oriented Computing (ICSOC 2011)**, Paphos, Cyprus, pp. 32-46, December 2011 (16%)
22. The Mashup Component Description Language, S. Aghaee, C. Pautasso, Proc. of the **13th International Conference on Information Integration and Web-based Applications and Services (iiWAS2011)**, Ho Chi Minh City, Vietnam, pp. 311-316, December 2011 (28%)
23. An Architectural Style for Liquid Web Services, D. Bonetta, C. Pautasso, Proc. of the **9th Working IEEE/IFIP Conference on Software Architecture (WICSA'11)**, Boulder, CO, USA, pp. 232-241, June 2011 (46%)
24. Exploiting Multicores to Optimize Business Process Execution, A. Peternier, D. Bonetta, C. Pautasso, W. Binder. Proc. of the **IEEE International Conference on Service-Oriented Computing and Applications (SOCA'10)**, Perth, Australia, pp. 1-8, December 2010, (31%)
25. A Multicore-aware Runtime Architecture for Scalable Service Composition, D. Bonetta, A. Peternier, C. Pautasso, W. Binder, Proc. of the **2010 IEEE Asia-Pacific Service Computing Conference (APSCC 2010)**, Hangzhou, China, pp. 83-90, December 2010, (27%)
26. Engineering Autonomic Controllers For Virtualized Web Applications, A. Gambi, G. Toffetti, M. Pezzè, C. Pautasso, Proc. of the **10th International Conference on Web Engineering (ICWE 2010)**, Vienna, Austria, pp. 66-80, July 2010 (22%, Best Paper Award)
27. Composing RESTful Services with JOpera, C. Pautasso, Proc. of the **International Conference on Software Composition (SCo9)**, Zurich, Switzerland, pp. 142-159, July 2009 (29%)
28. The Tiny Instrument Element, F. Lelli, C. Pautasso, Proc. of the **4th International Conference on Grid and Pervasive Computing (GPC'09)**, Geneva, Switzerland, pp. 293-304, May 2009 (19%)
29. Why is the Web Loosely Coupled? A Multi-Faceted Metric for Service Design, C. Pautasso, E. Wilde, Proc. of the **18th International World Wide Web Conference (WWW2009)**, Madrid, Spain, pp. 911-920, April 2009 (13%)
30. BPEL for REST, C. Pautasso, Proc. of the **6th International Conference on Business Process Management (BPM 2008)**, Milan, Italy, pp. 278-293, September 2008 (12%)

Conferences

(Continued)

31. Automatic Configuration of an Autonomic Controller: an Experimental Study with Zero-Configuration Policies, T. Heinis, C. Pautasso, Proc. of the **5th International Conference on Autonomic Computing (ICAC 2008)**, Chicago, USA, pp. 67-76, June 2008 (24%)
32. RESTful Web Services vs. Big Web Services: Making the Right Architectural Decision, C. Pautasso, O. Zimmermann, F. Leymann, Proc. of the **17th International World Wide Web Conference (WWW2008)**, Beijing, China, pp. 805-814, April 2008 (11%)
33. Initializing a National Grid Infrastructure: Lessons Learned from the Swiss National Grid Association Seed Project, N. Abdennadher, P. Engel, D. Feichtinger, D. Flanders, P. Flury, P. Jermini, S. Maffioletti, C. Pautasso, H. Stockinger, W. Sudholt, M. Thiemard, N. Williams, C. Witzig, Proc. of the **8th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2008)**, Lyon, France, pp. 169-176, May 2008 (32%)
34. Combining Quality Assurance and Model Transformations in Business-Driven Development. J. Koehler, T. Gschwind, J. Küster, C. Pautasso, K. Ryndina, J. Vanhatalo, H. Völzer. Proc. of the **3rd Symposium on Applications of Graph Transformations with Industrial Relevance 2007 (AGTIVE 2007)**, pp. 1-16, October 2007 (Invited Paper)
35. ADkwik: Web 2.0 Collaboration System for Architectural Decision Engineering, N. Schuster, O. Zimmerman, C. Pautasso, Proc. of the **19th International Conference on Software Engineering and Knowledge Engineering (SEKE 2007)**, Boston, pp. 255-260, July 2007 (42%)
36. Grid-based Analysis of Tandem Mass Spectrometry Data in Clinical Proteomics, A. Quandt, P. Hernandez, C. Pautasso, P. Kunszt, R. Appel, Proc. of the **5th HealthGrid Conference**, Geneva, April 2007 (50%)
37. Control the Flow: How to Safely Compose Streaming Services into Business Processes, B. Biörnstad, C. Pautasso, G. Alonso, Proc. of the **2006 IEEE International Conference on Services Computing (SCC 2006)**, Chicago, pp. 206-213, September 2006 (25%)
38. Mirroring Resources or Mapping Requests: implementing WS-RF for Grid workflows, T. Heinis, C. Pautasso, G. Alonso, Proc. of the **6th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2006)**, Singapore, pp. 497-504, May 2006 (24%)
39. Publishing Persistent Grid Computations as WS Resources, T. Heinis, C. Pautasso, G. Alonso, O. Deak, Proc. of the **1st IEEE International Conference on e-Science and Grid Computing (e-Science 2005)**, Melbourne, Australia, pp. 328-335, Dec. 2005 (32%)
40. JOpera: an Agile Environment for Web Service Composition with Visual Unit Testing and Refactoring, C. Pautasso, Proc. of the **2005 IEEE Symposium on Visual Languages and Human Centric Computing (VL/HCC'05)**, Dallas, TX, pp. 311-313, Sept 2005 (31%)
41. Autonomic Execution of Service Compositions, C. Pautasso, T. Heinis, G. Alonso, Proc. of the **3rd International Conference on Web Services (ICWS 2005)**, Orlando, Florida, USA, pp. 435-442, July 2005 (19%)
42. Design and Evaluation of an Autonomic Workflow Engine, T. Heinis, C. Pautasso, G. Alonso, Proc. of the **2nd International Conference on Autonomic Computing (ICAC 2005)**, Seattle, WA, USA, pp. 27-38, June 2005 (17%)
43. ADAPT: Towards Autonomic Web Services, A. Bartoli, R. Jimenez-Peris, B. Kemme, C. Pautasso, S. Patarin, S. Wheeler, S. Woodman. Proc. of the **5th European Dependable Computing Conference (EDCC-5)**, Budapest, Hungary, April 2005 (Invited Paper)
44. Visual Composition of Web Services. C. Pautasso, G. Alonso. Proc. of the **2003 Symposia on Human Centric Computing Languages and Environments (HCC 2003)**, Auckland, New Zealand, pp. 92-99, October 2003 (26%)
45. Programming for Dependability in a Service-based Grid. W. Bausch, C. Pautasso, G. Alonso. Proc. of the **3rd IEEE/ACM International Symposium on Cluster Computing and the Grid (CCGrid 2003)**, Tokyo, Japan, pp. 164-171, May 2003 (34%)
46. BioOpera: Cluster-Aware Computing, W. Bausch, C. Pautasso, R. Schaeppi, G. Alonso. Proc. of the **4th IEEE International Conference on Cluster Computing (CLUSTER 2002)**, Chicago, USA, pp. 99-106, September 2002 (39%)
47. Dependable Computing in Virtual Laboratories, G. Alonso, W. Bausch, C. Pautasso, A. Kahn, M. Hallett. Proc. of the **17th International Conference on Data Engineering (ICDE2001)**, Heidelberg, Germany, pp. 235-242, April 2001 (17%)

Refereed Workshops

48. Technical Open Challenges on Benchmarking Workflow Management Systems, M. Skouradaki, D. Roller, F. Leymann, V. Ferme, C. Pautasso, Proc. of the **Symposium on Software Performance (SOSP 2014)**, Stuttgart, Germany, pp. 105-112, November, 2014.
49. A RESTful API for Controlling Dynamic Streaming Topologies, M. Babazadeh, C. Pautasso, Proc. of the **5th International Workshop on Web APIs and RESTful Design (WS-REST 2014)**, Seoul, Korea, April, 2014.
50. Atomic Distributed Transactions: a RESTful Design, G. Pardon, C. Pautasso, Proc. of the **5th International Workshop on Web APIs and RESTful Design**, Seoul, Korea, ACM, April, 2014.
51. BPELanon: Anonymizing BPEL Processes, M. Skouradaki, D. Roller, C. Pautasso, F. Leymann, Proc. of the **6th Central European Workshop on Services and their Composition (ZEUS 2014)**, Potsdam, Germany, February, 2014.
52. Live Mashup Tools: Challenges and Opportunities, S. Aghaee, C. Pautasso, Proc. of the **First ICSE International Workshop on Live Programming (LIVE 2013)**, San Francisco, USA, May 2013
53. RESTful Business Process Management in the Cloud, A. Gambi, C. Pautasso, Proc. of the **5th ICSE International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2013)**, San Francisco, USA, May 2013
54. Towards A Unified Benchmarking Framework for Web-based Mashup Tools, S. Aghaee, C. Pautasso, Proc. of the **6th International Workshop on Web APIs and Service Mashups (Mashups 2012)** at ESOC 2012, Bertinoro, Italy, pp. 40-43, September 2012
55. EnglishMash: Usability Design for a Natural Mashup Composition Environment, S. Aghaee, C. Pautasso, Proc. of the **4th International Workshop on Lightweight Integration on the Web (ComposableWeb 2012)** at ICWE 2012, Berlin, Germany, pp. 109-120, July 2012
56. BPMN for REST, C. Pautasso, Proc. of the **3rd International Workshop on BPMN (BPMN 2011)**, Lucerne, Switzerland, pp. 74-87, November 2011
57. Towards Self-Organizing Service-Oriented Architectures, W. Binder, D. Bonetta, C. Pautasso, A. Peternier, D. Milano, H. Schuldt, N. Stojnić, B. Faltings, I. Trummer, Proc. of the **5th IEEE International Workshop on Software Engineering for Adaptive Service-oriented Systems (SEASS 2011)**, Washington DC, USA, pp. 115-121, July 2011
58. An Evaluation of Mashup Tools Based on Support for Heterogeneous Mashup Components, S. Aghaee, C. Pautasso, Proc. of the **3rd International Workshop on Lightweight Integration on the Web (ComposableWeb 2011)** at ICWE 2011, Cyprus, pp. 1-12, June 2011
59. Goals, Questions and Metrics for Architectural Decision Models, M. Nowak, C. Pautasso, In Proc. of the **6th ICSE Workshop on SHaring and REusing Architectural Knowledge (SHARK 2011)**, Honolulu, Hawaii, pp. 21-28, May 2011
60. Mashup Development with HTML5, S. Aghaee, C. Pautasso, In: Proc. of the **4th International Workshop on Mashups and Web Service APIs (Mashups'10)** at ECOWS2010, Ayia Napa, Cyprus, No. 10, December 2010
61. Architectural Decision Modeling with Reuse: Challenges and Opportunities, M. Nowak, C. Pautasso, O. Zimmermann, Proc. of the **5th ICSE Workshop on SHaring and REusing Architectural Knowledge (SHARK 2010)**, Cape Town, South Africa, pp. 13-20, May 2010
62. A Roadmap towards Sustainable Self-aware Service Systems, S. Dustdar, C. Dorn, F. Li, L. Baresi, G. Cabri, C. Pautasso, F. Zambonelli, Proc. of the **2010 ICSE Workshop on "Software Engineering for Adaptive and Self-managing Systems" (SEAMS 2010)**, Cape Town, South Africa, pp. 10-19, May 2010
63. Embedding Continuous Lifelong Verification in Service Life Cycles, D. Bianculli, C. Ghezzi, C. Pautasso, Proc. of the **ICSE Workshop on Principles of Engineering Service Oriented Systems (PESOS 2009)**, Vancouver, Canada, pp. 99-102, May 2009
64. The Mashup Atelier, C. Pautasso, M. Frisoni, Proc. of the **2nd International Workshop on Web APIs and Services Mashups (Mashups'08)** at ICSC'08, Sydney, Australia, pp. 155-165, December 2008
65. Let it flow: Building Mashups with Data Processing Pipelines, B. Bioernstad, C. Pautasso, Proc. of the **1st International Workshop on Web APIs and Services Mashups (Mashups'07)**, Vienna, Austria, pp. 15-28, September 2007
66. Parallel Computing Patterns for Grid Workflows, C. Pautasso, G. Alonso, Proc. of the **HPDC Workshop on Workflows in Support of Large-Scale Science (WORKSo6)**, pp. 1-10, Paris, France, June 2006

Refereed Workshops

(Continued)

Refereed Workshops

(Continued)

67. Flexible Binding for Reusable Composition of Web Services. C. Pautasso, G. Alonso, Proc. of the **2005 Software Composition Workshop (SC 2005)** at ETAPS 2005, Edinburgh, Scotland, UK, pp. 151-166, April 2005
68. From Web Service Composition to Megaprogramming, C. Pautasso, G. Alonso, Proc. of the **5th VLDB Workshop on Technologies for E-Services (TES-04)**, Toronto, Canada, pp. 39-53, August 2004

Workshops

69. Research Challenges on Service Technology Foundations, D. Karastoyanova, Z. Nemeth, M. Carro, D. Ivanovic, C. Pautasso, C. Di Napoli, M. Giordano, Proc. of the **ICSE Workshop on European Software Services and Systems Research - Results and Challenges (SCube@ICSE)**, Zurich, Switzerland, pp. 27-33, June 2012
70. Towards Scalable Service Composition on Multicores, D. Bonetta, A. Peternier, C. Pautasso, W. Binder. In Proc. of the **IFIP Workshop on Semantic Web and Web Semantics (SWWS 2010)**, Crete, Greece, pp. 655-664, October 2010
71. Controlling and Monitoring Devices with REST, F. Lelli, C. Pautasso, Proc. of the **4th International Workshop on Distributed Cooperative Laboratories: Instrumenting the Grid (INGRID 2009)**, Alghero, Italy, April 2009

Book Chapters

72. **RESTful Web Services: Principles, Patterns and Emerging Technologies**, C. Pautasso, In: A. Bouguettaya, M. Sheng, and F. Daniel (eds.), *Web Services Handbook*, Springer (in press)
73. **Towards Distributed Atomic Transactions over RESTful Services**, G. Pardon, C. Pautasso, In: E. Wilde, C. Pautasso (eds.), *REST: From Research to Practice*, Springer, pp. 507-524, ISBN 978-1-4419-8302-2, 2011
74. **Web Services Technology**, C. Pautasso, In: G. Salvendy, W. Karwowski (eds.) *Introduction to Service Engineering*, John Wiley and Sons, pp. 488-501, ISBN 978-0-47038-241-7, 2010
75. **Design and Evaluation of a RESTful API for Controlling and Monitoring Heterogeneous Devices**, F. Lelli, C. Pautasso, In: F. Davoli, N. Meyer, R. Pugliese, S. Zappatore (eds.), *Remote Instrumentation Services on the e-Infrastructure: Application and Tools*, Springer, pp. 3-14, ISBN 978-1-4419-5573-9, 2010
76. **Compiling Business Process Models into Executable Code**, C. Pautasso, In: J. Cardoso, W. van der Aalst (eds.), *Handbook on Research in Business Process Management*, IGI Global, pp. 318-337, ISBN 978-1-60566-288-6, 2009
77. **High-throughput Data Analysis of Proteomic Mass Spectra on the SwissBioGrid**, A. Quandt, S. Maffioletti, C. Pautasso, H. Stockinger, F. Lisacek, P. Kunszt, In: M. Cannataro (ed.) *Handbook of Research in Computational Grid Technologies for Life Sciences, Biomedicine and Healthcare*, IGI Global, pp. 228-244, ISBN 978-1-60566-374-3, 2009
78. **Mediation**, C. Pautasso, In: L. Liu and M. Tamer Özsu (eds.) *Encyclopedia of Database Systems*, pp. 1704-1706, Springer, ISBN 978-0-387-49616-0, 2009
79. **Unified Discovery and Composition of Heterogeneous Services: The SODIUM Approach**, A. Tsalgatidou, G. Athanasopoulos, M. Pantazoglou, A.J. Berre, C. Pautasso, R. Gronmo, H. Hoff. In: E. Di Nitto, P. Traverso, A.-M. Sassen, A. Zwegers (eds.) *At your service: An overview of results of projects in the field of service engineering of the IST programme*, MIT Press, pp. 67-100, ISBN 978-0-26204-253-6, 2008
80. **A Self-Configuring Service Composition Engine**, T. Heinis, C. Pautasso, G. Alonso, In: M. Parashar and S. Hariri (eds.) *Autonomic Computing: Concepts, Infrastructure and Applications*, CRC Press, pp. 237-254, ISBN 0849393671, 2006
81. **Autonomic Computing for Virtual Laboratories**. C. Pautasso, W. Bausch, G. Alonso, In: B. Meyer, A. Schiper, J. Kohlas (eds.) *Dependable Systems: Software, Computing, Networks*, LNCS 4028, Springer, pp. 211-230, ISBN 978-3-540-36821-2, 2006

Books

82. **SOA with REST: Principles, Patterns & Constraints for Building Enterprise Solutions with REST**, T. Erl, B. Carlyle, C. Pautasso, R. Balasubramanian, Prentice Hall, ISBN 978-0-1370-1251-0, August 2012

Edited Books

83. **REST: Advanced Research Topics and Practical Applications**, C. Pautasso, E. Wilde, R. Alarcon (eds.), Springer, ISBN 978-1-4614-9298-6, December 2013
84. **REST: From Research to Practice**, E. Wilde, C. Pautasso (eds.), Springer, ISBN 978-1-4419-8302-2, August 2011
85. **Emerging Web Services Technology, Vol. II**, T. Gschwind, C. Pautasso (eds.), Birkhäuser, ISBN 978-3-7643-8863-8, September 2008
86. **Emerging Web Services Technology**, C. Pautasso, C. Bussler (eds.), Birkhäuser, ISBN 3764384476, August 2007

Posters and Demonstrations

87. Interactive Scalable Lectures with ASQ, V. Triglianos, C. Pautasso, **Proc. of the 14th International Conference on Web Engineering (ICWE 2014)**, Toulouse, France, Springer, pp. 515-518, July, 2014.
88. ASQ: Interactive Web Presentations for Hybrid MOOCs, V. Triglianos, C. Pautasso, **22nd International World Wide Web Conference Poster (WWW 2013)**, Rio de Janeiro, Brazil, May 2013
89. The Atomic Web Browser, C. Pautasso, M. Babazadeh, **22nd International World Wide Web Conference Poster (WWW 2013)**, Rio de Janeiro, Brazil, May 2013
90. Software Architectural Warehouse: live and collaborative architectural decision making, M. Nowak, C. Pautasso, **Demo at the Joint 10th Working IEEE/IFIP Conference on Software Architecture (WICSA) and the 6th European Conference on Software Architecture (ECSA)**, Helsinki, Finland, August 2012
91. Overseer: low-level hardware monitoring and management for Java, A. Peternier, D. Bonetta, W. Binder, C. Pautasso, **Demo at the 9th International Conference on Principles and Practice of Programming in Java (PPPJ 2011)**, Kongens Lyngby, Denmark, pp. 143-146, August 2011
92. Grid-based Analysis of High-Throughput MS/MS Data, P. Hernandez, P. Palagi, A. Quandt, S. Maffioletti, C. Pautasso, A. Masselot, R. Appel, F. Lisacek, **Swiss Proteomics Society Meeting Poster**, Zurich, Switzerland, December 2009
93. Grid-based Analysis of High-Throughput MS/MS Data, P. Palagi, P. Hernandez, A. Quandt, S. Maffioletti, C. Pautasso, A. Masselot, R. Appel, F. Lisacek, **3rd European Proteomics Association Congress Poster**, Stockholm, Sweden, June 2009
94. The JOpera Autonomic Workflow Engine, T. Heinis, C. Pautasso, G. Alonso, **Demo at the 2nd International Conference on Autonomic Computing (ICAC 2005)**, Seattle, USA, June 2005
95. Rapid Composition of Web Services with JOpera for Eclipse. C. Pautasso, **Eclipsecon - Poster Reception**, San Francisco, USA, March 2005

Doctoral Symposiums

96. End-User Programming for Web Mashups: Open Research Challenges, S. Aghaee, C. Pautasso, **11th International Conference on Web Engineering (ICWE 2011) PhD Symposium**, Cyprus, June 2011
97. Towards Liquid Service Oriented Architectures, D. Bonetta, C. Pautasso, **20th International World Wide Web Conference (WWW 2011) PhD Symposium**, Hyderabad, India, pp. 337-341, March 2011

PhD Dissertation

98. **A Flexible System for Visual Service Composition**, Department of Computer Science, ETH Zurich, Diss. No. 15608, July 2004

Master Thesis

99. **Resource Management and Scheduling for the BioOpera Process Support System**, Department of Electronics and Informatics (DEI), Politecnico di Milano, Italy, April 2000

Edited Conference and Workshop Proceedings

100. **Proceedings of the 11th International Conference on Service-Oriented Computing (ICSOC 2013)**, S. Basu, C. Pautasso, L. Zhang, X. Fu (eds.), Berlin, Germany, LNCS 8274, Springer, ISBN 978-3-642-45004-4, December 2013. (12%)
101. **Proceedings of the Workshops and Satellite Events of the 10th International Conference on Service-Oriented Computing (ICSOC 2011)**, G. Pallis, M. Jmaiel, A. Charfi, S. Graupner, Y. Karabulut, S. Guinea, F. Rosenberg, Q. Z. Sheng, C. Pautasso, S. Ben Mokhtar (eds.), Paphos, Cyprus, LNCS 7221, Springer, ISBN 978-3-642-31874-0, December 2011

Edited Conference and Workshop Proceedings

(Continued)

102. **Proceedings of the 9th IEEE European Conference on Web Services (ECOWS 2011)**, G. Zavattaro, U. Schreier, C. Pautasso (eds.), Lugano, Switzerland, IEEE Computer Society, ISBN 978-1-4577-1532-7, September 2011 (24%)
103. **Proceedings of the 2nd International Workshop on RESTful Design (WS-REST 2011)**, R. Alarcón, C. Pautasso, E. Wilde (eds.), Hyderabad, India, ACM 2011, ISBN 978-1-4503-0623-2, March 2011
104. **Proceedings of the 8th IEEE European Conference on Web Services (ECOWS 2010)**, A. Brogi, C. Pautasso, G.A. Papadopoulos (eds.), Ayia Napa, Cyprus, IEEE Computer Society, ISBN 978-1-4244-9397-5, December 2010 (19%)
105. **Introduction to the 3rd International Workshop on Web APIs and Services Mashups (Mashups'09)**, C. Pautasso, S. Tai, M. Maximilien, in: OOPSLA 2009 Companion Proceedings, Orlando, FL, USA, pp. 695-696, October 2009
106. **Introduction to the 2nd International Workshop on Web APIs and Services Mashups (Mashups'08)**, C. Pautasso, S. Tai, M. Maximilien, in: George Feuerlicht, Winfried Lamersdorf (eds.) ICSOC 2008 Workshop Proceedings, Sydney, Australia, LNCS 5472, Springer, pp. 133-135, December 2008
107. **Introduction to the 1st International Workshop on Model-Driven Engineering for Business Process Management (MDE4BPMo8)**, C. Pautasso, J. Koehler, In: Danilo Ardagna, Jian Yang, Massimo Mecella, (eds.), BPM 2008 Workshop Proceedings, LNBP1 17, Springer, pp. 173-175, September 2008
108. **Proceedings of the 7th International Symposium on Software Composition (SC2008)**, C. Pautasso, É. Tanter (eds.), Budapest, Hungary, LNCS 4954, Springer, March 2008 (19%)
109. **Proceedings of the 2nd ECOWS 2007 Workshop on Emerging Web Services Technology (WEWSTo7)**, C. Pautasso, T. Gschwind (eds.), CEUR-WS ISSN 1613-0073, February 2008
110. **Proceedings of the ECOWS 2006 Workshop on Emerging Web Services Technology (WEWSTo6)**, C. Pautasso, C. Bussler (eds.), CEUR-WS ISSN 1613-0073, February 2007

Other Publications

111. **On Composing RESTful Services**, C. Pautasso, Dagstuhl Seminar 09021 Proceedings, July 2009
112. **Idempotent Capability**, H. Wilhelmsen, C. Pautasso, SOAPatterns.org, February 2009
113. **JOpera: Autonomic Service Orchestration**, C. Pautasso, T. Heinis, G. Alonso, IEEE Data Engineering Bulletin (Special Issue on Self-Managing Database Systems, Anastassia Ailamaki, ed.), 29(3): 32-39, September 2006
114. **Developing Scientific Workflows from Heterogeneous Services**, A. Tsalgatidou, G. Athanasopoulos, M. Pantazoglou, C. Pautasso, T. Heinis, R. Grønmo, H. Hoff, A.-J. Berre, M. Glittum, S. Topouzidou, SIGMOD Record, 35(2): 22-28, June 2006
115. **The ADAPT Framework for Adaptable and Composable Web Services**, A. Bartoli, R. Jimenez-Peris, B. Kemme, C. Pautasso, S. Patarin, S. Wheeler, and S. Woodman, IEEE Distributed Systems Online, September 2005
116. **JOpera: Visual Composition of Grid Services**, C. Pautasso, In: ERCIM News, No. 59, pp. 46-47, October 2004

Invited Presentations

- Streaming Across the Web of Things**, DBTA Workshop, Bern, Switzerland (November 2014)
- RESTful Business Process Management with Transactions**, at InnoQ retreat, Porlezza, Italy (Nov. 2014)
- How can we design a cooperation framework to support the innovation and know-how transfer between academia and industry?** Workshop on Innovative, Multidisciplinary Research, University of Bacau, Romania (May 2014)
- Atomic Distributed RESTful Transactions**, Workshop on Leveraging REST and Web Technologies in Enterprise Service Systems, at IBM CASCON, Toronto, Canada (November 2013)
- Executable Modeling of Software Architectures: the Case of Service Composition**, CHOOSE Forum 2012, Bern, Switzerland (December 2012)
- Composing RESTful Services**, Workshop on Leveraging REST and Web Technologies in Enterprise Service Systems, at IBM CASCON, Toronto, Canada (November 2012)
- SOA with REST**, FUB, Bern, Switzerland (April 2011)
- Real-time Mashups of Geographic Web Services**, PTA Open Days 2010, Como, Italy (November 2010)

Industry Conference Presentations

- The Design Space of Modern HTML5/JavaScript Web Applications** (with Marcin Nowak)
SATURN 2014, Minneapolis, USA (May 2013)
- Transactions for the REST of us** (with Guy Pardon),
SOA/Cloud Service Technology Symposium, Imperial College, London (September 2012)
- Collaborative Design with the Software Architecture Warehouse** (with Marcin Nowak),
SATURN 2011, San Francisco, USA (May 2011)
- Atomic Transactions for the REST of us**, RESTunconf, Munich, Germany (January 2011)
- BPM with REST**, 3rd International SOA Symposium, Berlin, Germany (October 2010)
- RESTful Business Process Management**, QCon 2010, London, UK (March 2010)
- Some REST Design Patterns (and Anti-Patterns)**,
2nd International SOA Symposium, Rotterdam, NL (October 2009)
- Composition Techniques for RESTful Web Services**,
2nd International SOA Symposium, Rotterdam, NL (October 2009)
- REST vs. SOAP: Making the Right Architectural Decision**,
1st International SOA Symposium, Amsterdam, NL (October 2008)
- Modeling and Executing Heterogeneous Grid Workflows with JOpera**,
Global Grid Forum 15, Boston, USA (September 2005)
- Rapid Composition of Web Services with JOpera for Eclipse**,
Eclipsecon – Research-Industry Technology Exchange, San Francisco, USA (March 2005)

Seminars

- Let's have a RESTful Conversation** McGill University, Montreal, Canada (May 2015)
- RESTful Conversations and RESTful Business Process Management**,
HPI Colloquium, Potsdam, D (March 2015)
- Loose Coupling: the secret sauce of Web services?**, at TU Delft, NL (January 2015)
- Informatics Research Perspectives: Industry vs Academia**, at University of Sevilla, Spain (Nov. 2014)
- RESTful Business Process Management**, at University of Luxembourg (November 2014)
- Model-driven software composition: from flow languages to natural languages**,
SJTU, Shanghai, China (November 2012)
- Composing REST Services**, Dagstuhl Seminar, Germany (January 2009)
- RESTful Web Service Composition with JOpera**, NICTA, Sydney, Australia (November 2008)
- RESTful Web Service Composition: putting BPEL to REST**, VU Amsterdam, NL (October 2008)
- Web Services in 2008: to REST or not to REST?**, University of Milano Bicocca, Italy (June 2008)
- JOpera: Service Orchestration for Overlay Networks**, INRIA Sophia Antipolis, France (November 2006)
- Welcome to JOpera: Overview and Q&A**, NCSA, Urbana-Champaign, USA (September 2006)
- JOpera: Making Grid Workflows Easy**, Purdue University, USA (September 2006)
- JOpera: Composing Service Oriented Architectures with Workflows**,
Université de Versailles, France (June 2006)
- Executable Modeling of Generic Service Compositions with JOpera**,
DERI, Innsbruck, Austria (October 2005)
- A Flexible System for Visual Service Composition**, DEI, Politecnico di Milano, Italy (April 2004)

Other Presentations

- Liquid Web Services**, IFIP WG on Service-Oriented Systems, Bologna, Italy (September 2012)
- JOpera: Eclipse-based Visual Composition Environment featuring a General Language for Heterogeneous Service Composition**, Thales, Paris, France (February 2012)
- Liquid Service Oriented Architectures**, SCUBE Roadmap Workshop, Barcelona, Spain (September 2011)
- Introduction to JOpera**, Whitestein Technologies, Zurich, Switzerland (January 2007)
- Model-based service composition with JOpera**, IBM Research, Rüschlikon, Switzerland (June 2006)
- Compiling Optimized Service Architectures**, Hasler Stiftung, Bern, Switzerland (May 2006)
- JOpera: an Autonomic Platform for Service Composition**, IBM Research Watson, USA (March 2006)
- A Flexible System for Visual Service Composition**, LASER Summer School, Elba, Italy (September 2004)

Panels

Models vs. Services, CHOOSE Forum 2012, Bern, Switzerland (December 2012)

To Cloud or Not To Cloud,

10th International Conference on Service-Oriented Computing, Shanghai, China (November 2012)

The Future of SOA technologies in the world of Cloud, Social and Mobile,

9th International Conference on Service-Oriented Computing, Paphos, Cyprus (December 2011)

REST Services vs. Web Services – A Live Debate,

3rd International SOA Symposium, Berlin (October 2010)

Do we need (more) research on REST?,

1st International Workshop on RESTful Design, Raleigh, NC (April 2010)

How can REST support Service-Orientation?,

1st International SOA Symposium, Amsterdam (October 2008)

„REST IN PEACE, SOAP“ ODER WIRD REST EINGESEIFT?

Tekzone-Forum 071, Netcetera, Zurich (Feb 2007)

Software

JOpera: Process Support for more than Web Services, C. Pautasso. Documentation, Demo Videos and Free Download from www.jopera.org

NaturalMash, S. Aghaee, C. Pautasso. www.naturalmash.com

Software Architecture Warehouse, M. Nowak, C. Pautasso. saw.inf.unisi.ch

TigerQuoll – Parallel JavaScript VM, D. Bonetta, C. Pautasso. <https://github.com/eleinadani/TigerQuoll>

Overseer, A. Peternier, C. Pautasso. <http://sosoia.inf.unisi.ch/overseer>

ASQ, V. Triglianios, C. Pautasso. asq.inf.usi.ch