Paolo Traverso

Curriculum Vitae

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Paolo Traverso is the Director of the Center for Information Technology - IRST at Fondazione Bruno Kessler (formerly Istituto Trentino di Cultura), a center of about 200 researchers and developers working on engineering, content, and interaction. He has also been CEO of Trento RISE, a fully operative institution merging the ICT branch IRST with the University of Trento, Department of information Engineering and Computer Science (DISI) in a wide spectrum of scientific areas and human sciences, thus providing the ideal instrument towards the integration of education, research, and business.

His main research interests are in **Software and Services**, **Artificial Intelligence**, and the **Automated Verification and Synthesis** of software systems. He contributed to research in automated planning with a novel technique called *"planning as model checking"*, which is now the basis for his work on supporting the **automated composition and run-time monitoring of service oriented applications**.

He was Program Chair of *the International Conference on Automated Planning (ICAPS)* and Area Chair for Planning and Control of the European Conference on Artificial Intelligence (ECAI) in 2002, General and Program Chair of *the International Conference on Service-Oriented Computing (ICSOC)* in 2004 and 2005, Program Chair of the *13th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA)*, Area Chair for Distributed Systems of the European Conference on Artificial Intelligence (ECAI) in 2008, Program Chair of the *First Future Internet Symposium (FIS 2008)* in 2008, and Program Chair of the 6th European Semantic Web Conference (ESWC) in 2009. He served in the Senior Program Committee for ICAPS-2010, 20th International Conference on Automated Planning and Scheduling, and in the Advisory Board of IJCAI'11, the 22nd International Joint Conference on Artificial Intelligence. In 2005, he was nominated ECCAI fellow *"for pioneering work in the field of Artificial Intelligence, and outstanding service to the AI community"*.

Paolo Traverso has been involved and has been leading several research and industrial projects in the sector of safety critical systems and embedded controllers. In the area of Software and Services, he has been scientific coordinator of a rather large national basic research (FIRB) project - *"Knowledge Level Automated Software engineering" (KLASE)*, he has been responsible at FBK for the VII Framework European Project "Empowering the Service Economy with Service Level Agreements - aware Infrastructures*" (SLA@SOI)*, and he is a Steering Committee Member of the European Network of Excellence on Software, Systems and Services (S-Cube), and he has been involved in the Future Emerging Technologies (FET) European Project on *"Adaptable Pervasive Flows" (ALLOW)*.

He has been in the Editorial Board of the Journal of Artificial Intelligence Research (JAIR), of the Journal of Applied Logic (JAL), of the International Journal of Cooperative Information Systems (IJCIS), and of the Electronic Transaction in Artificial Intelligence (ETAI). He is a member of the Steering Committee of the International Conference on Service Oriented Computing, and a member of the European Coordinating Committee in Artificial Intelligence (ECCAI). He was also member of the Executive Council of the International Conference on Automated Planning and Scheduling (ICAPS), and member of the Board of Directors of the Italian Association for Artificial Intelligence (AI*IA).

Professional Experience:

2007 - present: Director, Center for Information Technology - IRST, FBK Fondazione Bruno Kessler, Trento, Italy

2010 – June 2014: CEO, Trento RISE, Trento (Italy)

2000 - 2006: Head of Division, Automated Reasoning System Division (SRA) IRST, Trento, Italy

1996 - 1999: Head of Research Unit, Research Unit "Software Development and Validation" IRST, Trento, Italy

1993 - 1996: Project Leader, IRST, Trento, Italy

1989 - 1993: Researcher, IRST, Trento (Italy)

1987 - 1988: Leader of the ATOL Lab (Advanced Technologies and Tools Lab), London, UK, Andersen & Co, Management Information Consulting

1986 - 1987: "Artificial Intelligence Department", Chicago, IL (USA), Andersen & Co., Management Information Consulting

1985 - 1986: "Advanced Technologies Department", Milano (Italy), Andersen & Co., Management Information Consulting

Academic & Teaching Experience:

1994 - 1995: Adjunct Professor Dipartimento di Informatica e Studi Aziendali (DISA), Università di Trento

1993 - 1994: Adjunct Professor, Dipartimento di Informatica ed Elettronica (DIE), Università di Genova

1989 – 1990: Visiting Researcher, Dept. of Artificial Intelligence, University of Edinburgh, Edinburgh (UK)

1987: Teacher of the "Advanced course in Design & Development", Andersen & Co., St. Charles, Chicago, IL (USA)

Program, General and Area Chair

- Program Co-Chair of WEBIST 2016 - 12th International Conference on Web Information Systems and Technologies. Rome (Italy) 23-25 June 2016
- Program Chair of the 6th European Semantic Web Conference (ESWC 2009), 31st May-4th June 2009, Crete - Greece.
- Program Chair of the Future Internet Symposium (FIS), in September 2008, Wien (Austria).
- Program Chair of the 13th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA'08), September, 2008 Varna, Bulgaria.
- Program Committee Area Chair of the 18th European Conference on Artificial Intelligence (ECAI 2008), 21 - 25 July 2008, Patras, Greece.
- Program Co-chair of the Third International Conference on Service Oriented Computing (ICSOC'05), December 12 - 16, 2005 Amsterdam, Netherlands.

- General Chair of the Second International Conference on Service Oriented Computing (ICSOC'04), November 15 - 18, 2004, New York City, NY, USA.
- Program Co-chair of the Sixth International Conference on AI Planning and Scheduling (AIPS'2002), April 23 - 27, 2002 Toulouse, France.
- Program Committee Area Chair of the 15th European Conference on Artificial Intelligence (ECAI 2002), 22 - 26 July 2002, Lyon, France.
- General Chair of the Workshop on Services Oriented Computing: Models, Architectures and Applications, January 27-31, 2003 Orlando, Florida, USA.
- Program Co-chair of the Workshop on Model-Theoretic Approaches to Planning, Aprile 14, 2000, Breckenridge, CO, USA.
- Program Co-chair of the Workshop on Run-Time Result Verification (RTRV99), Trento

Scientific Committees:

- Member of the MOCHAP 2014 (International Workshop on Model Checking and Automated Planning) Programme Committee. Portsmouth, USA, June 21-26, 2014.
- Member of the MPPU 2014 (International Workshop on Models and Paradigms for Planning under Uncertainty) Programme Committee. Portsmouth, USA, June 21-26, 2014.
- Member of the IJCAI'11 Advisory Committee. Barcelona (Spain), July 16-22, 2011.
- Member of the Senior Program Committee for ICAPS-2010, 20th International Conference on Automated Planning and Scheduling. Toronto (Canada), May 12-16, 2010.
- Member of the Scientific Steering Committee of the European Semantic Web Conference Series (SSCESWCS)
- Member of the Scientific Advisory Board of the KNOW-CENTER, Graz (Austria), 2009-present
- Fellow of the European Coordinating Committee for Artificial Intelligence (ECCAI), 2005-present
- Member of the Steering Committee of the International Conference on Service Oriented Computing (ICSOC)
- Member of the Executive Council of the International Conference on Automated Planning and Scheduling (ICAPS)
- Member of the Editorial Board of the Journal of Artificial Intelligence Research (JAIR), Morgan Kaufmann Publishers - from 2001 to 2007
- Editorial Board of the Electronic Transaction on Artificial Intelligence Research (ETAI)
- Editorial Board of the Journal of Applied Logic (JAL), Elsevier Publisher
- Editorial Board of the International Journal of Cooperative Information Systems (IJCIS), World Scientific
- Editorial Board of the Artificial Intelligent Review (2009 - 2011)
- Board of Directors of the Italian Association for Artificial Intelligence (AI*IA), from 2002 to 2006
- Steering Committee of AFRICOMM 2009 - 1st International Conference on e-Services for Developing Countries, Maputo (Mozambique), 3-4 December 2009
- Steering Committee Member of the European Network of Excellence on Software, Systems and Services (S-Cube).

Journals and Proceedings Editor:

- Co-editor: Proceedings of the 13th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA'08), Springer Verlag
- Co-editor: Proceedings of the 17th European Conference in Artificial Intelligence (ECAI'06), IOS press
- Co-editor: Proceedings of the 3rd International Conference on Service Oriented Computing (ICSOC'05), Springer Verlag
- Co-editor: Special Issue on Formal Methods of the International Journal on Software Tools for Technology Transfer (STTT), Springer Verlag (2000)
- Co-editor: Proceedings of Applied Formal Methods (FM-Trends 98), Lecture Notes in Computer Sciences, Springer Verlag

- Co-editor: Proceedings of the Sixth International Conference on AI Planning and Scheduling (AIPS'2002), AAAI press.(KI)

Keynote speaker at:

- SMAP 2015 - 10th International Workshop on Semantic and Social Media Adaptation and Personalization. November 5-6,2015, Trento, Italy. Title *"From Smart Cities to Smart Communities: The Case of Children's Independent Mobility"*.
- MOCHAP 2015 - Workshop on Model-Checking and Automated Planning. Jerusalem (Israel), June 7, 2015. Title: *"20 Years of Planning Via Model Checking: From Theory to Practice"*.
- WEBIST / CLOSER / SMARTGREENS 2015. Lisbon (Portugal), May 20-22, 2015. Title: *"Change alone is Unchanging: Continuous Context-Aware Adaptation of Service-based Systems for Smart Cities and Communities"*.
- 13th International Semantic Web Conference (ISWC 2014). Riva Del Garda, Trentino (Italy), 19-23 October 2014.
- European Conference on Service-Oriented and Cloud Computing (ESOCC 2012). Bertinoro, Italy, 19-21 September 2012.
- 3rd Karlsruhe Service Summit. Karlsruhe, Germany, 27 January 2012.
- KTH Research Platforms - International Scientific Advisory Board 2011. Stockholm, Sweden, 25-27 October 2011. Title: "*The Role of ICT in Meeting Global Challenges*".
- The 3rd Workshop on Non-Functional Properties and SLA Management in Service-Oriented Computing (NFPSLAM-SOC'09). Stockholm, Sweden, 23rd November 2009. Title: "*Towards a Future Internet of Services*".
- ICAPS 2009 Workshop on "Generalized Planning: Macros, Loops, Domain Control". Thessaloniki (Greece), September 2009. Title: "*When Planning for Generalized Plans is a Must: The Case of Software Service Composition & Monitoring*".
- I-KNOW'09, 9th International Conference on Knowledge Management and Knowledge Technologies. Graz (Austria), 2-4 September 2009. Title: "*Towards a Future Internet of Services and Content*".
- First Malaysian Conference on Semantic Technology and Knowledge Engineering Conference (STAKE 2009). July 20-21, Kuala Lumpur, Malaysia. Title: "*Software Services, Semantics and ... Internet*".
- 2nd IEEE Int. Workshop on Requirements Engineering For Services (REFS), to be held in conjunction with COMPSAC'08 - The 32nd IEEE Conference on Software and Applications, in Turku, Finland, July 28- August 1, 2008. Title: "*Service Oriented Sofyware: From Requirements to Design Time Composition and to Run Time Monitoring*".
- IEEE Int. Conference on Software Maintenance (IEEE ICSM) 2007, Paris, France. Title: "*Agree or Change! Making Services Evolve*".
- Spanish Conference of the Spanish Association for Artificial Intelligence (CAEPIA), 2007, Salamanca, Spain. Title: "*Artificial Intelligence for Web Services: Myths and Reality*"
- ICSOC PhD Symposium 2007, September, Vienna, Austria. Title: "*Service-oriented Computing from Design-time to Run-time: Some Research Challenges*"
- International Workshop on Automated Specification and Verification of Web Sites, Venice, December, 2007. Title: "*Design-time and Run-time Analysis of Web Service Compositions*"
- International Workshop on Semantic Data and Service Integration (SDSI 2007), Vienna, Austria, September 2007, in conjunction with VLDB 2007 - International Conference on Very Large Data Bases. Title: "*Service Integration*".
- International Workshop on Service Oriented Software Engineering (IW-SOSE '06). May 27-28, 2006, Shanghai" China. Title: "*Supporting the Composition of Distributed Business Processes*"
- AAAI 2001 Spring Symposium on Model-based Validation of Intelligence, March 26-28, 2001. Stanford University, Stanford, California, USA. Talk Title: "*Model Checking and Planning*"
- European Space Research and Technology Centre (ESTEC) Workshop on On-Board Autonomy, 17th-19th October, 2001, Noordwijk, The Netherlands. Title: "*Methods and Tools for Formal Software Verification and Autonomy Validation*"
- IJCAI-01 Workshop on Planning under Uncertainty and Incomplete Information, August 6, 2001. Seattle, USA. Title: "*Planning under Uncertainty by Model Checking*"

- Informatics Jamboree, 23-25 May, 2001, Division of Informatics, University of Edinburgh. Title: "*Planning as Model Checking*''
- ESSLLI-98 Workshop on Reasoning about Actions: Foundations and Applications, 10th European Summer School in Logic, Language and Information, Saarbrueken, Germania, Agosto 17 - 28, 1998. Title: "*Planning via Model Checking*"

Some projects:
- Scientific coordinator of the national basic research (FIRB) project - "Knowledge Level Automated Software engineering (KLASE)",
- Responsible at FBK for the VII Framework European Project "SLA@SOI",
- The European Network of Excellence on Software, Systems and Services (S-Cube),
- The Future Emerging Technologies (FET) European Project on "Adaptable Pervasive Flows (ALLOW)",
- Scientific Coordinator of EDAMOK "Enabling the Distributed and Autonomous Management of Knowledge",
- Scientific Coordinator of DOVES "Development of Autonomous and Verified Software". Project for the Italian Space Agency (ASI),
- ITC-IRST Coordinator for Innovanet "RoadMap for Mechanising Innovation and Scientific Discovery", European IST Project 2001-38422.