

Curriculum of Prof. Dr. Stefano Chessa

(August 2020)

Name: Stefano Chessa
Degree: Ph.D. in Computer Science
Position: Full Professor
Affiliation: Department of Computer Science, University of Pisa
Tel.: +39 050 2213122
E-mail: ste@di.unipi.it
web: <http://www.di.unipi.it/~ste>

Studies

- [1994] **Laurea degree “cum laude” in Computer Science** at the University of Pisa, Italy. Title of the thesis (in italian): “Autodiagnosi di Array Processor con una Strategia Parzialmente Adattiva”
- [1997] **Visiting Ph.D. student** at the Washington University (Seattle, WA) and at the Iowa State University (Ames, IA), under the supervision of Prof. A. K. Somani
- [1999] **Ph.D. in Computer Science** at the University of Pisa, Italy
Title of the thesis: “Self-Diagnosis of Grid-Interconnected Systems, with Application to Self-Test of VLSI Wafers” (TD-2/99 University of Pisa, Italy, March 1999)
Thesis supervisor: Prof. Piero Maestrini
Reviewers: Prof. A.K. Somani (Iowa State University, USA) and M. Malek (Humboldt University, Berlino)

Positions

- Since 2nd December 2019: Full professor at the Department of Computer Science, University of Pisa, Italy
- Since November 2015: Vice-chair of the BSc and MSc curricula in “Computer Science” of the University of Pisa.
- Since 29th December 2014: Associate professor at the Department of Computer Science, University of Pisa, Italy
- Since 2003: Research associate at the Information Science and Technology Institute (ISTI), Pisa, Italy.
- Since 1st September 2000: Assistant professor at the Department of Computer Science, University of Pisa, Italy
- 2000: Researcher at the at the Istituto di Elaborazione dell'Informazione del CNR, Pisa, Italy
- 1999: Research assistant at the Department of Mathematics of the University of Trento, Italy

International Research Projects

- EU FP6 project: Network of Excellence in Satellite Networks (Satnex) and SatNex-II, funded in 2003-2009. Within this project he was responsible for the ISTI-CNR unit of the joint activities: JA2330 – ROUTING e JA2441 – Satellite Networking in Challenging Environments (EGGS).
- EU FP6 Network of Excellence "Interactive Media with Personal Networked Devices" (InterMedia), funded in 2006-2010. Within this project he was responsible for the ISTI-CNR unit in the workpackages: WP 3 “Dynamic Networking”, WP 9 “Multimedia Content Sharing in Home Network”, and WP 11 “Technology Showcases”.
- EU FP6 Strep project "Secure Middleware for Embedded Peer-to-Peer Systems" (SMEPP), funded in 2006-2009. Within this project he was responsible for the design and development of SMEPP light, a version of the SMEPP middleware tailored for wireless sensor networks.

- EU FP6 Integrated Project "PERceptive Spaces prOmoting iNdependent Aging" (PERSONA), funded in 2006-2009. Within this project he was responsible of the IR 3.4.2 "State of the art of Wireless Sensor Network Technologies", and of the Task 3.4.2 "Communication Networks".
- EU FP7 Integrated Project "Universal Open Platform and Reference Specification for Ambient Assisted Living" (universAAL) 2010-2014: Key person for the ISTI-CNR unit.
- EU FP7 CIP-Thematic Network "European Network Group for Ageing Well and its Deployment" (ENGAGED, contract no. 325172) 2013-2015: Key person for the ISTI-CNR unit.
- EU FP7 project "Robotics UBIquitous COgnitive Network" (RUBICON) 2011 –2014: Scientific leader of the University of Pisa research unit.
- EU FP7 project "Decrease of cognitive decline, malnutrition and sedentariness by elderly empowerment in lifestyle management and social inclusion" (DOREMI) 2013 –2016: Scientific leader of the University of Pisa research unit.
- EU H2020 "A computing toolkit for building efficient autonomous applications leveraging humanistic intelligence" (TEACHING) 2020–2022, ICT-01-2019-RIA.

Organization Activities

Editorial activities

- Member of the editorial board of the International Journal of Ambient Intelligence and Smart Environments (since 2012)
- Member of the editorial board of Sensors (2018-2019)
- Co-editor of the special issue "Evaluating Ambient Assisted Living Components and Systems" for the Journal of Ambient Intelligence and Smart Environments (JAISE), 2014/15
- Member of the editorial board of the International Journal of Distributed Sensor Networks (2011-2012)

Conferences organization

- General co-chair (along with Prof. E. Mingozzi) of the conference "5th Italian Conference on ICT for Smart Cities And Communities" (i-Cities), Pisa 18-20 September 2019. <http://icities2019.unipi.it>.
- Publicity Chair of the 7th IEEE International Conference on Mobile Cloud Computing, Services and Engineering (MobileCloud), 4-9 April, 2019 - DoubleTree by Hilton Hotel Newark-Fremont - Newark, California, USA. <http://www.mobile-cloud.net/>
- Publicity Chair of the 23rd IEEE Symposium on Computers and Communications, 25-28 June 2018, Natal, Brazil. www.ieee-iscc.org
- Publicity Chair of the 6th IEEE International Conference on Mobile Cloud Computing, Services and Engineering (MobileCloud), Bamberg, Germany March 26 - March 29, 2018. <http://www.mobile-cloud.net/>
- Publicity Chair of the ACM Annual International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), October 28 - November 2, 2018, Montreal, Canada. <http://mswimconf.com/2018/>
- Publicity Chair of 23rd IEEE Symposium on Computers and Communications (ISCC), 25-28 June 2018, Natal, Brazil. <http://www.ieee-iscc.org>
- Publicity Chair of 6th IEEE International Conference on Mobile Cloud Computing, Services and Engineering (MobileCloud), March 26-29, 2018, Bamberg, Germany. <http://www.mobile-cloud.net/>
- Publicity Chair of 5th IEEE International Conference on Mobile Cloud Computing, Services and Engineering (MobileCloud), April 6-8, 2017, San Francisco, USA. <http://www.mobile-cloud.net/>
- Publicity Chair of 17th International Conference on Distributed Computing and Networking (ICDCN), January 4-7, 2017, Hyderabad, India. <http://idrft.ac.in/ICDCN2017/index.html>
- Program chair of CINI Annual Conference on Smart Cities & Communities (i-Cities), Benevento, September 29-30, 2016. <http://www.unisannio.it/I-CiTies2016/venue.html>

- Co-TPC chair of the Italian conference: “Tecnologie informatiche per una gestione sostenibile dell'agricoltura, dell'ambiente e della biodiversità” (TI4AAB), Certosa di Calci (PI), July 7-8, 2016. <http://www.ti4aab.org>
- Publicity Chair of IEEE International Symposium on Computer and Communications (ISCC), 27-30 June 2016, Messina, Italia. <http://iscc2016.unime.it/>
- Program chair of the track “E-health & Assisted Living”, for the annual workshop on ICT for smart cities & communities (I-CiTies '15).
- Program chair of the track: “Advanced Networking and Applications”, 17th IEEE International Conference on Computational Science and Engineering (CSE '14)
- Co-organizer of the workshop: “Managing AAL Complexity through Support for Interoperability” (MACSI), Bruxelles (Belgium), 19-20 Febbraio 2014
- Co-organizer of the workshop: “Adaptive Robotic Ecologies” (ARE), Dublin (Ireland), December 3rd 2013;
- Co-organizer of the workshop: “Location-based services for Indoor Smart Environments” (LISE), Montbeliard (France), 28th October, 2013
- Chair of the Steering Board of EvAAL (2010-2013);
- General Chair of the 2nd EvAAL Competition (2012) – evaluating AAL systems through competitive benchmarking;
- General Chair of the 1st EvAAL Competition (2011) – evaluating AAL systems through competitive benchmarking;
- Publication chair of the IEEE Int. Symp. on Computers and Communications (ISCC 2010);
- Publicity chair of 2nd Int. Conf. on Ad Hoc Networks (AdHocNets 2010);
- Organizing committee of the AALOA association (since 2010);
- Co-organizer of the 2nd International Workshop on Requirements and Solutions for Pervasive Software Infrastructures (RSPSI '07) – Ubicomp 2007 accompanying workshop
- Program committee member of several conferences.

He is also reviewer for several international journals, including IEEE, Elsevier, Springer and ACM journals.

Teaching Activities

He is member of the Council of the Doctorate in Computer Science since October 2013.

Since 2000, he taught the following courses for the “Laurea” (BSc) or for the “Laurea Magistrale” (MSc) in Computer Science of the University of Pisa:

- Concurrent Programming (2001-2004); 4 CFU
- Mobile Networks (2005/06); 3 CFU
- Operating Systems (2000-2004 and 2005-2019); 6 CFU
- Mobile ad hoc and sensor networks (2006-2017); 6 CFU
- Computer Networks (2010-2013); 6 CFU
- Computer Programming, for the Laurea Degree in Mathematics and Physics (2016-2017); 5 CFU
- Mobile and Cyber-Physical Systems (2018-2019); 9 CFU
- Data and System Security (2020-21); 9 CFU

He also had been supervisor of 42 master-level thesis and 23 bachelor-level thesis.

Scientific Activities

The current scientific activity falls within the field of wireless ad hoc and sensor networks, ambient assisted living and internet of things. More specifically the main areas of research are:

- Internet of things
- Ambient Assisted Living and e-health
- Pervasive Computing

- Wireless sensor networks
- Crowdsensing/participatory sensing
- Mobile social networks

He is co-author almost 200 publications appeared on international, peer-reviewed journals, conferences and books chapters. His current H-index is 32 (in Google Scholar), and his papers had been cited 5600 times (in Google Scholar).