

Proceedings

**2017 IEEE 14th International Conference
on Advanced and Trusted Computing
(ATC 2017)**

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2017 IEEE 14th International Conference on Advanced and Trusted Computing

ATC 2017

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Message from IEEE ATC 2017 General Chairs

Welcome to the 14th IEEE International Conference on Advanced and Trusted Computing (ATC 2017) sponsored by IEEE, IEEE Computational Intelligence Society and technically co-sponsored by the IEEE Computer Society and IEEE Technical Committee of Scalable Computing (TCSC). This year, the conference is organized by the San José State University (SJSU). It is our great pleasure to hold ATC 2017 in San Francisco Bay Area, August 4-8, 2017. On behalf of the Organizing Committee of ATC 2016, we would like to express to all attendees our cordial welcome.

Nowadays, various kinds of novel computing concepts are increasingly emerging for enhancing our real and virtual worlds towards smart worlds as well as cyber-physical-social-thinking integrated hyper worlds. Accordingly, computing systems are growing in capability and complexity including hardware, software, communications, networks, platforms, services, etc. Advanced computing (AC) aims to discover, develop, and deploy computational and networking capabilities, and to design and develop novel computing systems and architectures.

At the same time, computing must be trustworthy to engender confidence that systems will remain secure and available. Trust/distrust relationships in the Internet, Web applications and pervasive infrastructures are key factors to enable dynamic interaction and cooperation of various users, systems, and services. Trusted computing (TC) aims at making computing and communication systems and services available, predictable, accountable, controllable, assessable, sustainable, dependable, persistent, and secure.

ATC conferences have taken a leading role addressing the challenges in achieving practical advanced computing systems with truly trustworthy services. Started in 2005, the successful series of ATC conferences have been held as ATC 2016 Toulouse France, ATC 2015 Beijing China, ATC 2014 Bali Indonesia, ATC 2013 Vietri sul Mare Italy, ATC 2012 Fukuoka Japan, ATC 2011 Banff Canada, ATC 2010 Xi'An China, ATC 2009 Brisbane Australia, ATC 2008 Oslo Norway, ATC 2007 Hong Kong China, etc.

ATC 2017 includes a highly selective program of technical papers, accompanied by workshops, panel discussions and keynote speeches that describe original and unpublished research advancing the state of the art in advanced and trusted computing. This year, ATC has received a good number of submissions and after stringent reviews of the TPC members, a small number of high quality papers have been selected to be presented in the conference.

ATC 2016 has been supported by many people and organizations. First, we wish to thank Professors Jianhua Ma, Hosei University Japan and Laurence T. Yang, St Francis Xavier University Canada, Chairs of the Steering Committee of ATC, for giving us the opportunity to chair this conference and for their many advices and guidance. We thank also Igor Kottenko, Honorary Chair. We would like to express our gratitude to Benoît Piranda, University Bourgogne Franche-Comté, France, Shahram

Mohrehkesh, Temple University, USA and Feilong Tang, Shanghai Jiaotong University, China, the three Program Chairs for their hard and excellent work on organizing a very strong Program Committee and selection process to choose high-quality papers and producing an excellent conference program. We thank also the Finance Chair, Reqing Zhong, the Registration Chair, Hyeran Jeon and the Proceeding Chair, Shenqiang Lu. We are grateful to the Workshop Chairs Riccardo Lazzeretti and Hidayet Aksu. Thanks also to the Special Issues Chair Hicham Lackhlef for coordinating with publishers regarding special issues on extensions of selected ATC papers. Moreover, we thank the Publicity Chairs Yury Zhauniarovich, Siamak Aram, Pouya Ostovari, Yucong Duan.

Last but not least, we would like to thank all people of ATC 2016 Local Organizing Committee Chair, Sam Zhang and SJSU student conference support team (Tianyu Cao and Swathi Nuggehalli Sudarshan).

We are also grateful to all Program Committee Members for their help to review the papers received. We would like to thank all authors who submitted their high-quality papers to ATC 2016 and all the authors of the papers presented at the associated Workshops.

We thank all of you for participating in ATC 2016, and we hope you will find the conference stimulating and constructive and at the same time enjoy the beautiful San Francisco Bay Area.

The GENERAL CHAIRS OF ATC 2017



Julien Bourgeois
University Bourgogne Franche-Comté, CNRS, France



Jerry(Zeyu) Gao
San Jose State University, USA

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Joaquin Garcia-Alfaro
Telecom Sud Paris, France

Zhangbing Zhou,
China University of Geosciences Beijing, China

Message from IEEE ATC 2017 Program Chairs

On behalf of the ATC Program Committee, we welcome you all to the 14th IEEE International Conference on Advanced and Trusted Computing (ATC 2017), which is held on August 4-8, 2017, in San Francisco, USA. This year, ATC is co-located with six IEEE international Conferences and their workshops: the 14th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2017), the 17th IEEE International Conference on Scalable Computing and Communications (ScalCom 2017); the 3rd IEEE International Conference on Cloud and Big Data Computing (CBDCoM 2017); the 3rd IEEE International Conference on Internet of People (IoP 2017); the IEEE International Conference on Smart City Innovation (SCI 2017); and the IEEE Smart World Congress (SWC 2017).

IEEE ATC 2017 is the 14th edition of this conference series, previously held as ATC 2004 Nagasaki, Japan, ATC 2005 Vienna Austria, ATC 2006 Wuhan China, ATC 2007 Hong Kong China, ATC 2008 Oslo Norway, ATC 2009 Brisbane Australia, ATC 2010 Xi'an China, ATC 2011 Banff Canada, ATC 2012 Fukuoka Japan, ATC 2013 Vietri sul Mare, Italy, ATC 2014 Bali Island, Indonesia, ATC 2015 Beijing China, ATC 2016 Toulouse France.

ATC 2017 focuses on different aspects related to the design, development and deployment of trustworthy computational and networking systems and architectures. Trust and/or distrust relationships in the Internet and in pervasive infrastructures are key factors to enable dynamic interaction and cooperation of various users, systems, and services. Trusted and Trustworthy Computing (TC) aims at making computing and communication systems as well as services available, reputable, predictable, traceable, controllable, assessable, sustainable, dependable, persistent, and security/privacy protectable.

This volume contains the papers presented at ATC 2017. In response to the conference's call for papers, many papers were submitted from 33 different countries. The program committee was divided into thirteen tracks, led by two co-chairs per track. We would like to give our special thanks to the tracks chairs: I. Agudo-Ruiz (University of Malaga), G. Blanc (Télécom SudParis), S. Ben-Yahia (Faculty of Sciences of Tunis), S. Bhiri (Institute of Mathematics and Computer Science of Monastir), E. Curry (Insight, University of Ireland), T. Desprats (Paul Sabatier University), C. Fernandez-Gago (University of Malaga), F. Gomez-Marmol (NEC Laboratories Europe), J. Herrera-Joancomarti (Universitat Autònoma de Barcelona), P. Lafourcade (Université d'Auvergne), W. Li (Ericsson Research), H. Liu (Tsinghua University), K. Markantonakis (Royal Holloway, University of London), S. Nakamura (Fukushima University), H. Nakayama (Fukushima University), G. Navarro-Arribas (Universitat Autònoma de Barcelona), J. Parra-Arnau (Universitat Rovira i Virgili), C. Pérez-Solà (Universitat Autònoma de Barcelona), V. Raychoudhury (Indian Institute of Technology Roorkee), D. Sánchez (Universitat Rovira i Virgili), C. Taconet (Télécom SudParis), V. Torra (University of Skövde), Y. Yu (Fuzhou University), Z. Zhang (Telecom Lille), D. Zhang (Tongji University), Z. Zhao (North China University of Technology). We would like to thank as well to all the program committee members of each track. With their help and support, 26 papers were selected for presentation.

Our gratitude goes also to the General Chairs Julien Bourgeois University of Bourgogne Franche-Comté and Jerry (Zeyu) Gao, San Jose State University to the General Executive Chairs Joaquin Garcia-Alfaro, Telecom SudParis and Zhangbing Zhou China University of Geosciences Beijing for their help.

We thank the Workshop Chairs: Riccardo Lazzeretti, University of Padua, and Hidayet Aksu, Florida International University; the Publicity Chairs: Yury Zhauniarovich, Qatar Computing Research Institute/HBKU, Siamak Aram, University of Maryland, Pouya Ostovari, Temple University, and Yucong Duan, Hainan University, the Web Publication Chairs: Sazzad Hussain, St. Francis Xavier University and Zihao Jiang, St. Francis Xavier University, the Special Issues Chair: Hicham Lackhlef, University Technology of Compiègne, the Registration Chairs Xuan Guan, San Jose State University and the Local Organizing Committee Chairs: Jerry (Zeyu) Gao, San Jose State University, and Sam Zhang, San Jose State University.

Special thanks also go to the Steering Chairs: Jianhua Ma, Hosei University and Laurence T. Yang, St. Francis Xavier University, as well as the Honorary Chair Igor Kottenko, Russian Academy of Sciences, and Advisory Chairs: Tadashi Dohi, Hiroshima University and Didier El Baz, LAAS-CNRS for their support and guidance.

Last but not least, we thank all of you for participating in the conference. We hope that you find stimulating and interesting results for your research and professional activities.

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Driver and Driverless Cars: Competition or Coexistence Workshop (DDC) 2017

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Trusted Computing in Distributed and Hybrid systems

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