Message from Steering Committee Chair

Welcome to the Twelfth International Symposium on Autonomous Decentralized Systems (ISADS). As steering committee chair, I would like to thank you for coming to ISADS 2015, and I hope you will enjoy the conference’s technical programs as well as the beautiful area of Taichung, Taiwan.

The past eleven ISADSs held world-wide in Kawasaki, Japan, 1993, Phoenix, USA, 1995, Berlin, Germany, 1997, Tokyo, Japan, 1999, Dallas, USA, 2001, Pisa, Italy, 2003, Chengdu, China, 2005, Sedona, USA, 2007, Athens, Greece, 2009, Kobe, Japan, 2011 and Mexico City, Mexico, 2013 were successful in their high quality and broad international participation from academia, government and industry. At the first ISADS, the concept of autonomous decentralized systems was well recognized. During the last 22 years, the field of autonomous decentralized systems has been substantially advanced to provide solutions for control, communication, computing and service systems along with the rapid development of other related technologies. ISADS 2015 reflects not only such maturity but also innovation in autonomous decentralized systems concept, technologies and applications as well as further integration with other technologies. At the Tenth Jubilee ISADS 2011, the first Forum on “Paradigm Shift of Research and Development for Information Technology under Changing and Unpredictable Market” was founded. Society, economy and life have been unpredictably changing and evolving under the globalization, while a new value of sustainability has been more important as well as in growth. Technology and business are more and more rapidly and mutually related in the real world, and then the consistency of their research and development is crucial for sustainability in manufacturing, operation, maintenance and service in all life-cycle of system. The ISADS series since 1993 have been highly evaluated as the forum for the paradigm shift from technology-oriented to concept-oriented research and development. ADS has been contributing to society and economy through the unbending basic ADS concept and the ADS-based evolving technologies and applications.

The continuous growth of ISADS in size and diversity is reflected by the sponsoring society, the Computer Society of the Institute of Electrical and Electric Engineers (IEEE) together with the cooperating societies including the International Federation for Information Processing (IFIP), the International Federation of Automatic Control (IFAC), the Institute of Electronics, Information and Communication Engineers, Japan (IEICE) and Object Management Group (OMG), as well as the strong supporting organizations of the Ministry of Science and Technology, Taiwan, Ministry of Education, Taiwan and Asia University, Taiwan. I hope that you will find the program stimulating and that you will take the opportunity to meet with your colleagues from around the world to engage in social as well as technical discussions. In addition to the technical papers, a forum on paradigm shift of research and development, a plenary panel for future trend of ADS, and four workshops on the hot topics of technologies and their advanced applications are jointly arranged.

The success of the symposium depends on the dedication and contributions of many volunteers, committee members, authors, reviewers, speakers, workshop chairs, session chairs and supporting personnel, and the strong organizations. I would like to thank Honorary Chairs, Chung-Laung Liu, Qiang Lu and Qingquan Qian, and General Chair, Jeffrey Tsai for their direction. My thanks go to Program Committee Co-Chairs, Yinong Chen, Min-Shiang Hwang, Hidenori Nakazato and Ilja Radusch for the high quality of the technical program covering the advancement in both technologies and applications of autonomous decentralized systems. I would also like to thank Local Arrangements Chair, Anthony Y. H. Liao, Finance Chair, Rouh-Mei Hu and Co-Chair, Rong-Ming Chen, Workshop Committee Chair, Wen-Chung Shih, Proceedings and Publication Chair, Wen-Thong Chang, Registration Chair, Han C. W. Hsiao, and Web Chair, Edgar Chia-Han Lin for their efforts in the planning and implementation of the symposium. Finally, I would like to greatly thank Program Committee Chair, Yinong Chen and Secretary General, Chun-Ming Chang for their generous, energetic, and competent contributions in managing the global organization.

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My personal thanks are given to all the authors of submitted papers and the participants. Without their strong support, we could not have a successful conference of ISADS 2015.

Thank you.

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**Steering Committee Chair**  
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