

Preface

AsiaSim/SCS AutumnSim 2016 (the 2016 International Simulation Multi-Conference) was a joint conference of the 16th Asia Simulation Conference and the 2016 Autumn Simulation Multi-Conference. The Asia Simulation Conference (AsiaSim) is an annual international conference started in 1999. In 2011, the Federation of Asian Simulation Societies (ASIASIM) was set up and the AsiaSim became an annual conference of ASIASIM. The SCS Autumn Simulation Multi-Conference (SCS AutumnSim) is one of the premier conferences of the Society for Modeling and Simulation International (SCS), which provides a unique opportunity to learn about emerging M&S applications in many thriving fields. AsiaSim/SCS AutumnSim 2016 was the first conference jointly sponsored by ASIASIM and SCS and organized by the China Simulation Federation (CSF), Science and Technology on Special System Simulation Laboratory (STSSSL), and Beihang University (BUAA). It was also co-sponsored by the China Simulation Federation (CSF), the Japanese Society for Simulation Technology (JSST), the Korea Society for Simulation (KSS), the Society for Simulation and Gaming of Singapore (SSAGSG), the International Association for Mathematics and Computers in Simulation (IMACS), the Chinese Association for Artificial Intelligence (CAAI), China Computer Federation (CCF), the China Electrotechnical Society (CES), the China Graphics Society (CGS), and the China Ordnance Society (COS).

This conference is a big event that provides a unique opportunity to learn about emerging M&S research achievements and applications in many thriving fields, focusing on the theory, methodology, tools and applications for M&S of complex systems; it provides a forum for the latest R&D results in academia and industry.

The papers contained in these proceedings address challenging issues in M&S theory and methodology, model engineering for system of systems, high-performance computing and simulation, M&S for smart city, robot simulations, M&S for intelligent manufacturing, military simulation, as well as cloud technologies in simulation applications.

This year, AsiaSim/SCS AutumnSim received 639 submissions. Submissions came from around 15 countries and regions. After a thorough reviewing process, 267 papers were selected for presentation as full papers, with an acceptance rate of 41.8 %. These papers are published in the proceedings in the four volumes, 643–646. Volume 643 mainly addresses the issues of basics of M&S theory and methodology. Volume 644 discusses M&S for intelligent manufacturing and military simulation methods. In Vol. 645, cloud technologies in simulation applications, simulation and big data techniques are covered. And Vol. 646 presents M&S applications and simulation software.

The high-quality program would not have been possible without the authors who chose AsiaSim/SCS AutumnSim 2016 as a venue for their publications. Also, we would like to take this opportunity to thank the ASIASIM Federation for allowing us to host AsiaSim 2016 in Beijing.

We also thank the members of the Program Committee for their valuable effort in the review of the submitted papers. Finally, we would also like to thank our technical co-sponsors and sponsors. Your contributions and support have helped to make AsiaSim/SCS AutumnSim 2016 a memorable and successful event.

We hope that you enjoy reading and benefit from the proceedings of AsiaSim/SCS AutumnSim 2016.

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