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The 2014 International Conference on Life System Modeling and Simulation (LSMS 2014) and 2014 International Conference on Intelligent Computing for Sustainable Energy and Environment (ICSEE 2014), which were held during September 20–23, in Shanghai, China, aimed to bring together international researchers and practitioners in the field of life system modeling and simulation as well as intelligent computing theory and methodology with applications to sustainable energy and environment. These events built on the success of previous LSMS conferences held in Shanghai and Wuxi in 2004, 2007, and 2010, and ICSEE conferences held in Wuxi and Shanghai in 2010 and 2012, and are based on large-scale RCUK/NSFC jointly funded UK–China collaboration projects on energy.

At LSMS 2014 and ICSEE 2014, technical exchanges within the research community take the form of keynote speeches, panel discussions, as well as oral and poster presentations. In particular, two workshops, namely, the Workshop on Integration of Electric Vehicles with Smart Grid and the Workshop on Communication and Control for Distributed Networked Systems, were held in parallel with LSMS 2014 and ICSEE 2014, focusing on the two recent hot topics on smart grid and electric vehicles and distributed networked systems for the Internet of Things.

The LSMS 2014 and ICSEE 2014 conferences received over 572 submissions from 13 countries and regions. All papers went through a rigorous peer review procedure and each paper received at least three review reports. Based on the review reports, the Program Committee finally selected 159 high-quality papers for presentation at LSMS 2014 and ICSEE 2014. These papers cover 24 topics, and are included into three volumes of CCIS proceedings published by Springer. This volume of CCIS includes 56 papers covering 8 relevant topics.

Shanghai is one of the most populous, vibrant, and dynamic cities in the world, and has contributed significantly toward progress in technology, education, finance, commerce, fashion, and culture. Participants were treated to a series of social functions, receptions, and networking sessions, which served to build new connections, foster friendships, and forge collaborations.

The organizers of LSMS 2014 and ICSEE 2014 would like to acknowledge the enormous contributions made by the following: the Advisory Committee for their guidance and advice, the Program Committee and the numerous referees for their efforts in reviewing and soliciting the papers, and the Publication Committee for their editorial work. We would also like to thank the editorial team from Springer for their support and guidance. Particular thanks are of course due to all the authors, as without their high-quality submissions and presentations the conferences would not have been successful.
Finally, we would like to express our gratitude to:

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