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Through its open free membership model EAI promotes a new research and innovation culture based on collaboration, connectivity and recognition of excellence by community.

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Huimin Lu • Li Yujie  
Editors

# 2nd EAI International Conference on Robotic Sensor Networks

ROSENET 2018

 Springer

 **EAI**  
RESEARCH MEETS INNOVATION

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# Preface

We are delighted to introduce the proceedings of the 2017 European Alliance for Innovation (EAI) International Conference on Robotic Sensor Networks (ROSENET 2017) and the 2018 EAI International Conference on Robotic Sensor Networks (ROSENET 2018). The theme of ROSENET 2017 and ROSENET 2018 was “Cognitive Internet of Things for Smart Society.” This proceedings highlights selected papers presented at the 1st/2nd EAI International Conference on Robotic Sensor Networks, held in Kitakyushu, Japan. Today, the integration of artificial intelligence and internet of things has become a topic of growing interest for both researchers and developers from academic fields and industries worldwide, and artificial intelligence is poised to become the main approach pursued in next-generation IoTs research.

The rapidly growing number of artificial intelligence algorithms and big data devices has significantly extended the number of potential applications for IoT technologies. However, it also poses new challenges for the artificial intelligence community. The aim of this conference is to provide a platform for young researchers to share the latest scientific achievements in this field, which are discussed in these proceedings.

The technical program of ROSENET 2017 and ROSENET 2018 consisted of 19 full papers from 39 submissions, including 18 papers in main track and 1 invited paper in special session “Artificial Tactile Sensing and Haptic Perception.” Aside from the high-quality technical paper presentations, the technical program also featured two keynote speeches. The five keynote speakers were Prof. Seiichi Serikawa, Prof. Hyoungseop Kim, Prof. JooKooi Tan from Kyushu Institute of Technology, Japan, Prof. Yujie Li from Fukuoka University, Japan, and Prof. Min Chen from Huazhong University of Science and Technology, China.

Coordination with the steering chair, Imrich Chlamtac, was essential for the success of the conference. We sincerely appreciate his constant support and guidance. It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference: in particular, the Technical Program Committee, led by our TPC Co-chairs, Dr. Shenglin Mu, Dr. Jože Guna, and Dr. Shota Nakashima who have completed the

peer-review process of technical papers and made a high-quality technical program. We are also grateful to Conference Manager, Dominika Belisova, for her support and all the authors who submitted their papers to the ROSENET 2017 and ROSENET 2018 conferences and special sessions.

We strongly believe that ROSENET conferences provide a good forum for all researchers, developers, and practitioners to discuss all science and technology aspects that are relevant to Robotics and Cognitive Internet of Things. We also expect that the future ROSENET conferences will be as successful and stimulating as indicated by the contributions presented in this volume.

Kitakyushu, Japan  
Fukuoka, Japan

Huimin Lu  
Li Yujie

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