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Advanced Hybrid Information Processing

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Preface

We are delighted to introduce the proceedings of the fourth edition of the European Alliance for Innovation (EAI) International Conference on Advanced Hybrid Information Processing (ADHIP 2020). This conference brought together researchers, developers and practitioners around the world who are leveraging and developing hybrid information processing technology for smarter and more effective research and applications. The theme of ADHIP 2020 was "Industrial applications of aspects with big data".

The technical program of ADHIP 2020 consisted of 190 full papers, with acceptance ratio about 46.8%. The conference tracks were: Track 1 –Industrial application of multi-modal information processing; Track 2 –Industrialized big data processing; Track 3 –Industrial automation and intelligent control; and Track 4 –Visual information processing. Aside from the high-quality technical paper presentations, the technical program also featured two keynote speeches. The two keynote speakers were Dr. Khan Muhammad from Sejong University, Republic of Korea, who is currently working as an Assistant Professor at the Department of Software and Lead Researcher of the Intelligent Media Laboratory, Sejong University, Seoul, Republic of Korea, and is an editorial board member of the Journal of Artificial Intelligence and Systems and Review Editor for the Section "Mathematics of Computation and Data Science" in the journal Frontiers in Applied Mathematics and Statistics; as well as Dr. Gautam Srivastava from Brandon University in the Canada, who has published a total of 143 papers in high-impact conferences in many countries and in high-status journals (SCI, SCIE) and has also delivered invited guest lectures on Big Data, Cloud Computing, Internet of Things and Cryptography at many Taiwanese and Czech universities. He is an Editor of several international scientific research journals.

Coordination with the steering chairs, Imrich Chlamtac, Guanglu Sun and Yun Lin, was essential for the success of the conference. We sincerely appreciate their 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 Chair, Dr. Shuai Liu, completed the process of peer-review of technical papers and made a high-quality technical program. We are also grateful to the Conference Manager, Natasha Onofrei, for her support and to all the authors who submitted their papers to the ADHIP 2020 conference and workshops.

We strongly believe that the ADHIP conference provides a good forum for all researchers, developers and practitioners to discuss all scientific and technical aspects that are relevant to hybrid information processing. We also expect that future ADHIP conferences will be as successful and stimulating, as indicated by the contributions presented in this volume.

Shuai Liu

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