

ADHIP

Advanced Hybrid Information Processing

2nd EAI International Conference on

**ADVANCED HYBRID
INFORMATION PROCESSING**

OCTOBER 5–6, 2018

YIYANG, PEOPLE'S REPUBLIC OF CHINA

Welcome to the 2nd EAI International Conference on Advanced Hybrid Information Processing (ADHIP2018) endorsed by European Alliance for Innovation (EAI), held during October 5 - 6, 2018, in Yiyang, P. R. China. On behalf of the Organizing Committee of ADHIP2018, we would like to express our sincere and warm welcome to all participants!

EAI ADHIP 2018 conference is the 2ND edition of the successful International Conference on Advanced Hybrid Information Processing (ADHP) previously held in Harbin, P.R. China. It provides a forum for engineers and scientists in academia, industry, and government to address the resulting profound challenges and to present and discuss their new ideas, research results, applications and experiences on all aspects of advanced hybrid information processing.

Since information processing has acted as an important research domain in science and technology today, it is the right time to develop deeper and wider use of hybrid information processing, especially information processing for big data. Today, there are more remaining issues are waiting for solving, such as classification and systemization of big data, objective tracking and behavior understanding in big multimedia data, encoding and compression of big data, et al. These entire problems need our more attention to solve.

Therefore, more effective thoughts and methods are needed to enhance theory and application of big hybrid data processing. Moreover, the use of sophisticated and robust mathematical methods are important in huge information processing, and emerging methods which can improve the efficiency of this domain are also encouraged in this conference.

So, this conference aims to provide an opportunity for researchers to publish their gifted theoretical and technological studies of advanced method in big hybrid data processing, and their novel engineering applications within this domain.

ADHIP 2018 consists of 2 invited keynote speeches and technical paper presentations. For the successful organization of an international conference of this size and diversity, we counted on the great support of many people and organizations. First of all, we would like to sincerely thank the EAI and Adhip Steering Committee for giving us the opportunity to organize the conference and for their support and guidance. We would like to express our appreciation to all invited speakers for offering wonderful speeches.

We thank all of you for participating in Adhip 2018. We sincerely hope Adhip 2018 can stimulate your innovation and future research and play as a platform for your professional activities.

Prof. Shuai Liu, General Chair

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**PROF. GUAN GUI****BIO**

Guan Gui received the Dr. Eng degree in Information and Communication Engineering from University of Electronic Science and Technology of China (UESTC), Chengdu, China, in 2012. From October 2009 to March 2012, with the financial supported from the China scholarship council (CSC) and the global center of education (ECOE) of Tohoku University, he joined the wireless signal processing and network laboratory (Prof. Adachi's laboratory), Department of Communications Engineering, Graduate School of Engineering, Tohoku University as for research assistant as well as postdoctoral research fellow, respectively. From September 2012 to March 2014, he was supported by Japan society for the promotion of science (JSPS) fellowship as postdoctoral research fellow at same laboratory. From April 2014 to October 2015, he was an Assistant Professor in Department of Electronics and Information System, Akita Prefectural University. Since November 2015, he has been a professor with Nanjing University of Posts and Telecommunications (NUPT), Nanjing, China.

He is currently engaged in research of deep learning, compressive sensing, and advanced wireless communications. He has published more than 200 international peer-reviewed journal/conference papers. He received several best paper awards in international conferences (CSPS2018, ICNC2018, ICC2017, ICC2014, VTC2014-fall). He was also selected as for Jiangsu Specially-Appointed Professor, Jiangsu High-level Innovation and Entrepreneurial Talent, Nanjing Youth Award and "1311 Talent Plan" of NJUPT. He is an IEEE Senior Member. Dr. Gui has been Editor of Security and Communication Networks (2012-2016), Editor of IEEE Transactions on Vehicular Technology (2017~), Editor of KSII Transactions on Internet and Information Systems (2017~) and Editor-in-Chief of EAI Transactions on Artificial Intelligence (2018~).



PROF. GUANGJIE HAN

BIO

Guangjie Han is currently a Professor with the Department of Information and Communication System, Hohai University, Changzhou, China and a Distinguished Professor of Dalian University of Technology, Dalian, China. He received the Ph.D. degree from Northeastern University, Shenyang, China, in 2004. From 2004 to 2005, he was a Product Manager for the ZTE Company. From 2005 to 2006, he was a Key Account Manager for the Huawei Company. In February 2008, he finished his work as a Postdoctoral Researcher with the Department of Computer Science, Chonnam National University, Gwangju, Korea. From October 2010 to October 2011, he was a Visiting Research Scholar with Osaka University, Suita, Japan. From January 2017 to February 2017, he was a Visiting Professor with City University of Hong Kong, China. He is the author of over 298 papers published in related international conference proceedings and journals, including the IEEE COMST, IEEE TII, IEEE TMC, IEEE TVT, IEEE TIE, IEEE TPDS, IEEE TETC, IEEE IoT Journal, IEEE TETCI, IEEE TCC, IEEE Systems, IEEE Sensors, IEEE Wireless Communications, IEEE Communications, IEEE Network, etc, and is the holder of 120 patents. Currently, his H-index is 29 and i10-index is 71 in Google Citation (Google Scholar). Total citation of his papers by other people is more than 3540 times. His current research interests include Internet of Things, Industrial Internet, Mobile Computing, Artificial Intelligence, and security.

Dr. Han has served as a Co-chair for more than 50 international conferences/workshops and as a Technical Program Committee member of more than 150 conferences. He has served on the Editorial Boards of up to 20 international journals, including the IEEE Network, IEEE Systems, IEEE ACCESS, Telecommunication Systems, etc. He has guest edited a number of special issues in IEEE Journals and Magazines including the IEEE Communications, IEEE Wireless Communications, IEEE Transactions on Industrial Informatics, Computer Networks, etc.. He has served as a Reviewer of more than 60 journals. He had been awarded the ComManTel 2014, ComComAP 2014, Chinacom 2014 and Qshine 2016 Best Paper Awards. He is a member of IEEE and ACM.

Day 1 - Friday 5 October 2018

Host: Prof. Shuai Liu

8:00 - 9:00	Registration
9:00 - 9:40	Welcome Speech Host: Prof. Shuai Liu
9:40 - 10:20	Keynote Speech 1
10:20 - 10:40	Tea Break
10:40 - 11:20	Keynote Speech 2
11:20 - 11:30	Best Paper Award
11:30 - 14:30	Lunch Break
14:30 - 16:20	Accepted Paper Reports
16:20 - 16:40	Tea Break
16:40 - 17:30	Accepted Paper Reports
17:30 - 18:00	Break
18:30-20:30	Dinner

Day 2 – Saturday 6 October 2018

8:30 - 10:00	Accepted Paper Reports
10:00 - 10:30	Tea Break
10:30 - 12:00	Accepted Paper Reports
12: 00 - 14:00	Lunch Break + Conclusion
14:00 - 16:00	Accepted Paper Reports + Conclusion *

*Optional

We reserve the right to make changes in the program

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EAI was created by leaders from industry, research, and policy-making organisations to engage the global community with the shared goal of securing Europe's future competitiveness through innovation.

With over 40.000 members from 167 countries, EAI engages the global community to explore ways in which innovation in technology and business can benefit society at large.

EAI is involved in the technical program development of events, including scientific meetings, trade events, training workshops, seminars, and fairs worldwide.

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Thank you for participating at EAI conference and
We hope to see you again!