

Welcome message from the Editor-in-Chief

Lei Shu ^{*1}

¹Guangdong Provincial Key Laboratory of Petrochemical Equipment Fault Diagnosis,
Guangdong University of Petrochemical Technology, Maoming 525000, China

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It is with much joy and anticipation that we celebrate the launch of Journal of Industrial Networks and Intelligent Systems (INIS) with this inaugural issue!

On behalf of the INIS Editorial Team, I would like to extend a very warm welcome to the readership of INIS. I would like to take this opportunity to acknowledge all the authors who contributed to the success of this inaugural issue of the journal. I am grateful to all anonymous reviewers for their time and effort in reviewing the papers and providing us and the authors valuable review comments. I am thankful to all editorial board members for their strong support in founding this new journal. I am also thankful to all INIS publication staff for their great efforts and assistance in producing and launching this inaugural issue of the journal.

Along with the fast development of computer technologies, e.g., ubiquitous computing, cloud computing and cyber-physical system, all kinds of networks (e.g., control network, communication network, sensor network, body area network, social network, opportunistic network, cloud-based network, etc.) appeared and were applied in large-scale factories, including a lot of traditional and new industries, e.g., textile industry, coal industry, mining industry, steel industry, machinery industry, petrochemical industry, and biomedical industry, etc.

Assisted by various industrial networks, automation in industry can reduce cost greatly because it takes advantage of control systems and information technologies to optimize productivity in the production of goods and delivery of services. However, the industrial environment is dynamic and harsh usually, including extreme temperature, humidity, electromagnetic interference and vibration, which proposed specific requirements to intelligent industrial systems under certain circumstances. All these highlight the criticality of the design, analysis and implementation of intelligent industrial systems.

This journal is committed to the timely publication of the latest research and developments in the areas of industrial networks and intelligent systems. Full papers, letters, surveys, as well as essays are welcomed. All submissions will go through a rigorous peer-review process, and be reviewed by expert referees and evaluated by the editorial board.

The scope of the journal includes, but is not limited to:

- Applications of wireless sensor networks, body area networks in large-scale factories.
- Applications of social networking and cloud computing in large-scale factories.
- Analysis of industrial control and communication networks.
- Network protocols and algorithms for industrial environments at any network device communication layer.
- Design and choice of industrial network protocols.
- Opportunistic networks in the industry.
- Industrial applications of intelligent systems.
- Design and analysis of real-time embedded industrial systems.
- Novel industrial control techniques.
- Automated manufacturing systems.
- Computational intelligence in automation.
- Hardware and software design and development for intelligent systems.
- Big data analysis and processing in the industry.
- Crowd-sourced behavior analysis in the industry.

¹ Corresponding author. Email: lei.shu@lab.gdpt.edu.cn

- Simulation and testbed of current industrial networks and intelligent systems.
- Vision of future smart factories, incorporating current existing technologies.
- Multimedia application in industrial systems.
- Pattern recognition methods for industry.
- Survey, review and essay of current industrial networks researches and intelligent systems development.

Finally, we cordially welcome all readers and fellow researchers to submit your papers and contribute your work to this journal. We wish to encourage more contributions from the scientific community and industry practitioners to ensure a continued success of the journal. Authors, reviewers and guest editors are always welcome. We also welcome comments and suggestions that could improve the quality of the journal.

Thank you. We hope you will find INIS informative.

About the Editor-in-Chief



Lei Shu, received the B.Sc. degree in Computer Science from South Central University for Nationalities, China, in 2002 and the M.Sc. degree in Computer Engineering from Kyung Hee University, Korea, in 2005 and the Ph.D. degree in Digital Enterprise Research Institute, from National University of Ireland, Galway, Ireland, in 2010. Until March

2012, he was a Specially Assigned Researcher in Department of Multimedia Engineering, Graduate School of Information Science and Technology, Osaka University, Japan. He is a member of IEEE, IEEE ComSoc, ICST, and ACM. Since October 2012, he joined Guangdong University of Petrochemical Technology, China as a full professor. Since 2013, he started to serve in 1) Dalian University of Technology as a Ph.D supervisor in the College of Software; 2) Beijing University of Posts and

Telecommunications as a Master supervisor in the Information and Communication Engineering. Meanwhile, he is the founder of Industrial Security and Wireless Sensor Networks Lab: www.iswsnlab.cn. He is also working as the vice-director of the Guangdong Provincial Key Laboratory of Petrochemical Equipment Fault Diagnosis, China. His research interests include: Wireless Sensor Networks, Multimedia Communication, Middleware, Fault Diagnosis, and Security. He has published over 170 papers in related conferences, journals, and books in the related areas. More than 50 papers were published as first author or corresponding author. He developed an open source wireless sensor networks simulator 'NetTopo' to evaluate & demonstrate his algorithms. NetTopo, has been downloaded for more than 3420 times during the past 3 years, and is widely used by international researchers and students. He had been awarded the MASS 2009 IEEE TCs Travel Grant and the Outstanding Leadership Award of EUC 2009 as Publicity Chair, the Globecom 2010 and ICC 2013 Best Paper Award, and Outstanding Service Award of IUCC 2012. He has been serving as Editor in Chief for IEEE CommSoft E-letter, and editors for 1) Wiley, Transactions on Emerging Telecommunications Technologies, 2) IET Communications, 3) IET Networks, 4) KSII Transactions on Internet and Information Systems (TIIS), 5) Journal of Internet Technology, 6) Inderscience, International Journal of Sensor Networks, 7) Wiley, Wireless Communications and Mobile Computing, 8) Journal of Communications, 9) Ad Hoc & Sensor Wireless Networks, 10) Wiley, International Journal of Communication Systems, 11) Wiley, Security and Communication Networks, 12) IET Wireless Sensor Systems, 13 Elsevier, Journal of Networks and Applications. He is serving the Vice-Chair for SIG on Energy Harvesting Communications. He has served as more than 50 various Co-Chair for international conferences/workshops, e.g., IWCMC 2011 Symposium Chair, ICC 2012 Symposium Chair, Chinacom 2014 General Chair; TPC members of more than 200 conferences, e.g., DCOSS, MASS, ICC, Globecom, ICCCN, WCNC, ISCC. He has served as reviewer of more than 50 journals.