# Annals of Telecommunications

Call for papers Special Issue on

# **Internet of Vehicle in Smart City**

### **Lead Guest Editor**

Prof. Lyes Khoukhi, University of Technology of Troyes, France

### **Guest Editors**

- Dr. Hu Xiong, University of Electronic Science and Technology of China, China
- Dr. Saru Kumari, Department of Mathematics, Ch. Charan Singh University, Meerut, India
- Dr. Yue Cao, Lancaster University, UK
- Dr. Changqing Luo, Virginia Commonwealth University, USA

### Topics of interest for this special issue include but are not limited to:

- Protocols and standards for IoV in Smart City
- Services and application of loV in Smart City
- Security and privacy preserving for IoV
- Vehicular and wireless technologies for IoV
- Automotive and road traffic controlCooperative driving and intelligent vehicles
- Resource allocation and energy diffusion
- Policy, economics and social Implications for IoV in Smart City
- Cloud/edge computing and big data for IoV in Smart City
- Business trading for IoV in Smart City
- Data acquisition, and analysis for IoV
- Location based services in smart city using IoV

Smart city integrates innovative technologies and solutions to manage the assets of cities including transportation, electricity supply, and other pivotal infrastructure. Internet of Vehicle (IoV) is the latest technologies designed for Smart City in transportation. Through wireless communication and sensing technology, IoV creates a network of information interaction among vehicles, roadside infrastructure, surrounding environments. Diverse kinds of data gathered from the vehicular devices reflect the current traffic conditions of Smart City (e.g., traffic accidents, traffic jams and public transport delays) in real time.

By using the data felicitously, IoV not only provides drivers with the best driving routes, but also enables emergency prevention and response to rapidly put into effect, so that the traffic safety and onboard experience can be improved significantly, which is regarded as the main contribution of IoV for Smart City. Despite these advantages, the sustainability of IoV is subject to numerous potential risks in safety and performance, such as control malfunction and low energy efficiency. Besides, the connectivity for IoV becomes a growing concern due to the complexity of the transportation system. The research on IoV requires the research expertise of multidisciplinary fields, across from Information Communication Technology towards energy and civil engineering.

The study on appropriate solutions to the above problems has not attracted enough attention from academia and industries. This special issue aims to fill this gap and brings the recent research outcome to advance knowledge of problems and solutions applicable to IoV in Smart City.

Papers must describe original research that advances state-of-the-art research and must not be simultaneously submitted to a journal or a conference with proceedings. Papers must be written in excellent English and should not exceed 20 pages. Previously published or accepted conference papers must contain at least 40% new material to be considered for the special issue. A covering letter to the Guest editors clearly describing the extensions made must accompany these types of submissions. All submissions must be made using the instructions available at:

http://annalsoftelecommunications.wp.mines-telecom.fr/how-to-publish/

The authors can directly submit their papers at: <a href="https://www.editorialmanager.com/ante/">https://www.editorialmanager.com/ante/</a> and must select the menu "Choose Article Type" and then the item "CfP: Internet of Vehicle in Smart City".

## Proposed schedule

• Manuscript Submission: 30 December 2019

Extended to September 30, 2020

Online with DOI:
As soon as accepted

### Prof. Lyes Khoukhi,

Prof. Lyes Khoukhi received the Ph.D. degree in electrical and computer engineering from the University of Sherbrooke, Sherbrooke, QC, Canada, in 2006. In 2008, he was a researcher with the Department of Computer Science and Operations Research, University of Montreal, Montreal, QC, Canada. Currently, he is Professor at the University of Technology of Troyes, France; between 2009 and 2018, he was been an Assistant Professor. He has authored or coauthored more than 120 publications in reputable journals and conferences in various areas related to mobility, Internet of Vehicles and smart city. His research interests include particularly performance evaluation, security and resources management. He has participated as a General Chair, Session Chair, or Program Committee Member of many conferences.

### Dr. Hu Xiong

Dr. Hu Xiong received the Ph.D. degree from the School of Computer Science and Engineering, University of Electronic Science and Technology of China (UESTC) in 2009. He is currently a Full Professor with the School of Information and Software Engineering, UESTC. His research interests include cryptographic protocols and network security. Since 2010, Dr. Xiong has participated in 5 R+D projects from both Chinese government and industries. His research interests include public key cryptography and cyber space security. Dr. Xiong has published over 9 IEEE journals and published a book in the CRC press as the 1st author in the field of his research area. He organized special issue related to security and privacy in Transactions on Emerging Telecommunications Technologies and Mathematical Biosciences and Engineering.

### Dr. Saru Kumari

Dr. Saru Kumari is currently an Assistant Professor with the Department of Mathematics, Ch. Charan Singh University, Meerut, Uttar Pradesh, India. She received her Ph.D. degree in Mathematics in 2012 from CCS University, Meerut, UP, India. She has published more than 124 research papers in reputed International journals and conferences, including 110 publications in highly reputed SCI-Indexed Journals. She is on the Editorial board of AEÜ - International Journal of Electronics and Communications, Elsevier (SCI); International Journal of Communication Systems, Wiley (SCI-E); Transactions on Emerging Telecommunications Technologies; Wiley (SCI-E), KSII Transactions on Internet and Information Systems (SCI-E), published from Taiwan; Information Security: A Global Perspective, Taylor & Francis (ESCI, Scopus); International Journal of Wireless Information Networks (ESCI, Scopus), Springer; Azerbaijan Journal of High Performance Computing, published by Azerbaijan State Oil and Industry University, Azerbaijan; Security and Privacy, Wiley. She served as Guest Editor of the Special Issue "Big-data and IoT in e-Healthcare" for Computers and Electrical Engineering, Elsevier (SCI-E), Elsevier. She is Technical Program Committee Member for more than a dozen of International conferences. She is a reviewer of more than 50 reputed Journals including SCI-Indexed Journals of IEEE, Elsevier, Springer, Wiley, etc. Her current research interests include information security, applied cryptography and Internet of Things.

### Dr. Yue Cao

Dr. Yue Cao is currently working at Lancaster University UK and prior to joining this University, he was working as a Senior Lecturer in Department of Computer and Information Sciences (CIS), at Northumbria University, UK. He received the PhD degree from the Institute for Communication Systems (ICS), 5G Innovation Centre (5GIC), at University of Surrey, UK in 2013, further worked as Research Fellow at the ICS until September 2016, and Lecturer in Department of CIS, at Northumbria University, UK until July 2017. He has participated in 2 UK EPSRC and 4 EU projects, been active in international engagement and leading several international exchange projects with New Zealand, Japan and Thailand etc. Over the last few years, he has hopped from ICT into a multidisciplinary research field under the umbrella of Intelligent Transport Systems, includes "Transport and Energy", "Network Communication and Computation", "Cyber Security and Localization". He has published over 15 IEEE journals as the 1st author through his research pathway, is the Associate Editor of IEEE Access, KSII

Transactions on Internet and Information Systems, and IGI Global International Journal of Vehicular Telematics and Infotainment Systems. He also has organized special issues related to IoV, in IEEE Internet of Things Journal, IEEE Access, and IET ITS etc.

### Dr. Changqing Luo

Dr. Changqing Luo received the Ph.D. degree in computer engineering from Case Western Reserve University (CWRU) in 2018. He joined the Department of Computer Science at Virginia Commonwealth University, Richmond, VA USA, in 2018, where he is currently an Assistant Professor. He received the Best Paper Awards at IEEE DASC 2017, EAI ChinaCom 2104, and IEEE GreenCom 2013, and the Best Application Award at PAKDD 2018. He has served as a Guest editor of Special issue "Communication and Fog/Edge Computing Towards Intelligent Connected Vehicles (ICVs)", IEEE ACCESS. He also has served as the Technical Program Committee (TPC) Chair of IEEE GreenCom 2019, the Publicity and Social Media Chair of EAI MobiQuitous 2019, the Publication Co-Chair of I-SPAN 2017, and the Publicity Co-Chair of IEEE iThings 2011. Besides, he has served as the Technical Program Committee (TPC) member of many international academic conferences, such as ICC, GLOBECOM, ICNC, ICCC, VTC, etc. His research interests include mobile edge computing, wireless communications, wireless networks, security and privacy, and artificial intelligence.



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