IEEE Open Journal of Intelligent Transportation Systems
Editor in Chief (Prof Dr Ir Bart van Arem)

Special Issue on:
“Smart Transportation: Cyber-Physical Systems Combined with Intelligent Logistic Models”

The emerging technology of Cyber-Physical Systems (CPS) promises new problem solutions in transportation, logistics and Supply Chain Management. As cars, traffic lights and the surrounding build and road environment are becoming connected and augmented with embedded intelligence, it is important to understand how smart ecosystems that encompass hardware, software, and physical components can help sense the changing state of the real world related to transportation. CPS for logistics play a central role in dealing with the challenges facing both transportation and logistics. Logistics sees the internet of things and cyber-physical systems as things controlling themselves: intelligent devices should learn to think and vehicles of goods should organize their own route to the destinations all by themselves. In order to enable a structured scientific discussion on the integration between CPS and intelligent logistic models, this issue provide the platform to enrich this discussion. This special issue is expected to bridges the gap between the transportation, CPS and the variety of logistic models used for supply chain management. It also expected to examine timely, state-of-the-art topics, such as big data analytics, privacy, cybersecurity, intelligent transportation systems and smart cities as well as the implications of logistics on SCM based on CPS. Topics of this special issue include but are not limited to:

➢ Transportation Cyber Physical System and its Importance for Future Mobility
➢ Architecture of Transportation CPS
➢ Collaborative Modelling and Co-Simulation for Transportation Cyber-Physical Systems
➢ Real-Time Control Systems
➢ Security and Privacy
➢ Infrastructure for Transportation Cyber Physical Systems
➢ Data Management Issues in Cyber-Physical Systems
➢ Human Factors in Transportation Cyber-Physical Systems
➢ Future of Transportation – Smart Cities/Regions, etc.
➢ Cyber-physical systems applications for transportation
➢ Novel logistic models and tools for Transportation CPS
➢ Cyber-Physical Supply Chain
➢ Monitoring and analytics in Transportation CPS
➢ Big data system and data analytics for Transportation CPS
➢ Transportation cyber-physical systems modelling and simulation
➢ Cloud-based Transportation CPS

<table>
<thead>
<tr>
<th>Submission Deadline</th>
<th>September 30, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publication Date</td>
<td>December 31, 2020</td>
</tr>
</tbody>
</table>

Papers are published upon acceptance, regardless of the Special Issue publication date. We accept extended papers mainly from our coming IEEE LISS 2020 conference July 25-28, 2020 Budapest, Hungary (http://icir.bjtu.edu.cn/liss2020/) but we welcome relevant submissions from outside the LISS2020.

- Guest Editors

<table>
<thead>
<tr>
<th>Prof. Oriol Lordan</th>
<th>Universitat Politècnica de Catalunya -- BarcelonaTech (UPC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Mincong Tang</td>
<td>Beijing Jiaotong University, China</td>
</tr>
<tr>
<td>Prof. Sabah Mohammed</td>
<td>Lakehead University, Ontario, Canada</td>
</tr>
<tr>
<td>Prof. Tai hoon KIM (lead guest</td>
<td>Beijing Jiaotong University, China</td>
</tr>
<tr>
<td>editor)</td>
<td></td>
</tr>
</tbody>
</table>
Prof. Oriol Lordan
Oriol Lordan is Associate Professor in the Department of Management of the Universitat Politècnica de Catalunya -- BarcelonaTech (UPC). He is aerospace engineer and received his PhD from UPC. His primary research interest is the analysis of air route networks through complex networks theory. He is also interested in the application of operational research to modelling different stages of airline and airport operations. He has received the Luis Azcarraga price for outstanding research in air transport for his work on robustness of complex networks. Oriol has published 25 papers in scientific journals and around 20 publications in scientific conferences.

Dr. Mincong Tang
Dr. Tang graduated his MS from Beijing Jiaotong University, China (2005) and PhD degree in Management Information Systems at The Chinese University of Hong Kong (2011). He had been the Executive Director of International Center for Informatics Research (ICIR) from October 2012 to present at Beijing Jiaotong University. He is also a research fellow in the International Center for Informatics Research (ICIR) of the same university from November 2012 to present.

Prof. Sabah Mohammed
Dr. Sabah Mohammed research interest is in intelligent systems that have to operate in large, nondeterministic, cooperative, highly connected, survivable, adaptive or partially known domains. His continuous research is inspired by his PhD work back in 1981 from Brunel University (UK) on the employment of the Brain Activity Structures for decision making (planning and learning) that enable processes (e.g. agents, mobile objects) and collaborative processes to act intelligently in their environments to timely achieve the required goals. Dr. Mohammed is full Professor at the department of Computer Science at Lakehead University (Ontario Canada) since 2002. More information on Dr. Mohammed can be found on his institution website http://flash.lakeheadu.ca/~mohammed.

Prof. Taihoon Kim
Dr. Tai-hoon Kim received his M.S. degrees and Ph.D. in Electrics, Electronics & Computer Engineering from the Sungkyunkwan University, Korea and his 2nd Ph.D. in Computer Engineering from Bristol University, United Kingdom. He has worked for several academic institutes such as Technical Institute of Shindoricoh, The Korea Information Security Agency, The DSC (Defense Security Command), E-wha Woman University. He is currently a professor of Beijing Jiaotong University in China, and visiting scholar of UTAS in Australia. He researched vehicular communication, smart vehicular systems, image processing, biometrics, bio-medical system design and security engineering.

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