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AUTOMATION SCIENCE AND ENGINEERING

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Special Issue on “Emerging Advances in Logistics Systems: Integrating Remote Sensing, IT, and Autonomy”

The specific objectives of the modern Logistics Challenges are ‘smart, green and integrated services’ to achieve planning, scheduling and transport systems that are resource-efficient, climate- and environmentally-friendly, safe and seamless for the benefit of all citizens, the economy and society. In this concept the smart logistics is not only a trend in world industry and supply chain but also a green and highly efficient means to improve processes, transportation, resource management and the overall system performances. Moreover, the increasing complexity of such *systems of systems* and the availability of Information and Communication Technologies (ICT) require the development of innovative models and lead to the definition of novel problems with respect to the related literature.

The goal of this special issue is to provide a forum of interaction between researchers and practitioners in the area of automation and logistics. It aims to promote and facilitate the development of automation and ICT applications in different logistic fields.

Topics to be covered include, but are not limited to:

- Performance evaluation of new hardware and software technologies to support smart logistics systems.
- Planning, scheduling and coordination problems arising from the implementation of new hardware, decision or data architectures.
- Impact of novel automation, information and data architectures on the design of logistics systems and supply chains.
- Innovative interfacing of hardware, software and data resources to support smart logistics.
- Intelligent transportation and distribution systems: theory and application.
- Management information systems in logistics.
- System-level approaches to cooperative logistics.
- Automatic and intelligent control applications in logistics systems at the factory, warehouse, transportation or supply chain levels.
- Normative, legal, security and privacy issues in logistics and their impact on logistics system design and control.

Application domains may include (but are not limited to) the following:

- Intra-factory logistics and material handling for manufacturing and production systems
- Supply Chains
- Warehouses, distribution centres, and transport terminals
- Freight transportation systems (seaports, railroads, trucking systems, package express etc.)
- Smart logistics for smart cities
- Logistics for Healthcare Systems (biomaterials, pharmaceuticals, etc.)
- Automated and Internet-based Workflow Management Systems

Important Dates:

Manuscript submission	November 1, 2015
Completion of first round of reviews	January 16, 2016
Revised manuscript due date	March 16, 2016
Final decision notification	May 15 2016
Final version of manuscript due date	July 15, 2016
Publication date	October 1, 2016

Papers should be submitted to <http://mc.manuscriptcentral.com/t-ase> with a cover letter including the statement “This manuscript is submitted for the special issue on “Emerging Advances in Logistics Systems: Integrating Remote Sensing, IT, and Autonomy”. For detailed submission information, please refer to “Information for Authors” at <http://www.ieee-ras.org/publications/t-ase/information-for-authors>.

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