

Special Issue on “Network Economics and
Regulation in the Internet of Things”
Transactions on Emerging Technologies in
Telecommunications

January 18, 2017

Call for Papers

Aim and Scope

The Internet of Things (IoT) has witnessed an intense period of technology-driven research and development for the last ten years. This fact has translated into a prominent presence of IoT in scientific journals, a decisive support by main funding research agencies and a flourishing ecosystem of innovative startups in IoT.

There is a current need, however, for sustainable business models that allow IoT solutions to be successfully marketed. Additionally, regulatory compliance is a precondition for widespread deployment and use of IoT.

This Special Issue aims to shed light on both the economic and legal aspects of IoT deployment. Firstly, economic models based on optimization and game theory, as well as dynamic and stochastic models, which cope with the technological specificity of the IoT scenario are very much welcome. These models have been successfully applied in other technological scenarios, e.g. spectrum sharing for cognitive radio, and should help assess the feasibility of business model proposals. Technoeconomic evaluation of IoT deployments are also welcome. And secondly, comparative law at regional and world levels may help identify potential hurdles to IoT deployment and propose regulatory solutions to them. Security and privacy regulatory practices in IoT current deployments may help build a regulatory agenda for the IoT.

Topics of Interest

The topics relevant to this special issue include but are not limited to:

- Economic models for

- user utility and demand in IoT-based service provision
- platform-based service provision in IoT
- data collection from sensor networks
- pricing challenges for the IoT. e.g., smart data pricing, two-sided pricing, auctions, etc.
- participatory sensing and crowdsensing networks in IoT
- resource allocation in Machine-to-Machine (M2M) communication in IoT
- IoT deployment (aimed at technoeconomic analysis)
- Legal aspects of
 - security in real-work IoT deployments
 - consumer security and protection
 - privacy in data collection and sharing
- Interoperability and standards in IoT

Papers must be tailored to the problems of IoT and explicitly consider either the economic aspects or the legal ones. The editors maintain the right to reject papers they deem to be out of scope of this special issue. Only originally unpublished contributions and invited articles will be considered for the issue. The papers should be formatted according to the ETT guidelines ([http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1541-8251/homepage/ForAuthors.html](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1541-8251/homepage/ForAuthors.html)). Authors should submit a PDF version of their complete manuscript via Manuscriptcentral (<http://mc.manuscriptcentral.com/ett>) according to the timetable below.

Important Dates

- Submission deadline: 31 May 2017
- Author notification: 30 Sept 2017
- Final manuscript: 31 January 2018
- Publication: Second quarter 2018

Guest Editors

Dr. Luis Guijarro (lead) Universitat Politècnica de València, Spain (lguijar@upv.es).

Dr. Patrick Maillé Telecom Bretagne, France.

Dr. Ping Wang Nanyang Technological University, Singapore.

Dr. Galina Schwartz , University of California Berkeley, United States.

Dr. Maurizio Naldi , Università di Roma Tor Vergata, Italy.