IEEE ICC 2017
21-25 May 2017 // Paris, France

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CALL FOR PAPERS

5th IEEE International Workshop on Smart Communication Protocols and Algorithms (SCPA 2017)

http://scpa.it.ubi.pt/

Communication protocols and algorithms are needed to communicate network devices and exchange data between them. Recent advances in hardware and communication mediums allow proposing new rules, conventions and data structures which could be used by network devices to communicate across the network. Smart communication protocols and algorithms make use of several methods and techniques (such as machine learning techniques, decision making techniques, knowledge representation, network management, network optimization, problem solution techniques, and so on), to communicate the network devices to transfer data between them. Smart communication protocols and algorithms can be used to perceive the network conditions, or the user behavior, in order to dynamically plan, adapt, decide, take the appropriate actions, and learn from the consequences of its actions. In this workshop, researchers are encouraged to submit papers focused on the design, development, analysis or optimization of smart communication protocols or algorithms at any communication layer. Algorithms and protocols based on artificial intelligence techniques for network management, network monitoring, quality of service enhancement, performance optimization and network secure are included in the workshop.

- Smart network protocols and algorithms for multimedia delivery
- Application layer, transport layer and network layer cognitive protocols
- Cognitive radio network protocols and algorithms
- Automatic protocols and algorithms for environment prediction.
- Algorithms and protocols to predict data network states.
- Intelligent synchronization techniques for network protocols and algorithms
- Smart protocols and algorithms for e-health
- Software applications for smart algorithms design and development.
- Dynamic protocols based on the perception of their performance
- Smart protocols and algorithms for Smartgrids
- Protocols and algorithms focused on building conclusions for taking the appropriate actions
- Smart collaborative protocols and algorithms

- Smart Automatic and self-autonomous ad-hoc and sensor networks.
- Artificial intelligence applied in protocols and algorithms for wireless, mobile and dynamic networks.
- Smart security protocols and algorithms
- Smart cryptographic algorithms for communication
- Artificial intelligence applied to power efficiency and energy saving protocols and algorithms
- Smart routing and switching protocols and algorithms
- Cognitive protocol and algorithm models for saving communication costs.
- Any kind of intelligent technique applied to QoS, content delivery, network Monitoring and network management.
- Problem recognition and problem solving protocols
- Genetic algorithms, fuzzy logic and neural networks applied to communication protocols and algorithms

Important Dates:

Paper Submission: 18 November 2016
Notification Date: 17 February 2017
Final Paper: 10 March 2017

Organizing Committee:

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