



International Conference on Advanced Technologies, Signal & Image Processing



May 22-24, 2017, Fez, Morocco

http://www.atms-researchgroup.com/atsip_2017.php

Call For Special Session Proposals

Special Session Chair(s):

- **Ouadoudi ZYTOUNE**
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Title: Wireless Sensor Networks: Energy Consumption Management Studies

In order to harmonize the regular program with emerging topics of particular interest, the ATSIP'2017 conference will include a Special Session entitled "Wireless Sensor Networks: Energy Consumption Management Studies".

Wireless Sensor Networks (WSN) researches are gaining significant importance due to the development of Internet of Things (IoT) and Smart Cities market. This kind of networks presents some limitations and requirements as compared to traditional networks. Since it is composed from lightweight nodes with limited computational capability. Those nodes are generally battery powered and can be equipped with an energy harvesting module. Each sensor node contributes to the environment monitoring by sending wirelessly the gathered data to the remote user. However, due to the power limitation, others nodes are required to accomplish the transmission of one node by relaying the transmitted data. Even if the use of energy harvesting module, energy usage optimisation is required since the harvested energy stays insufficient for continuous working. In the literature, some algorithms and techniques were proposed to perform data communications in WSN. Those algorithms and techniques aim to ensure data gathering while dealing with the network nodes constraints.

The topics of this Special Session include (but not limited to) the following items:

- Wireless Sensor Networks architecture and Design
- Clustering and Data aggregation
- Protocols and algorithms for data transmissions
- Energy harvesting and storage

For any further enquiries regarding conference deadline, papers submissions, fees and program, venue, accommodation, instructions, and registration forms, please visit the conference official website: http://www.atms-researchgroup.com/atsip_2017.php

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