



Call for Papers

Special issue on

Smart Environments

Journal of Communications Software and Systems (JCOMSS)

Recent advances in the multidisciplinary exploration of emerging technologies and services such as RFID, NFC, Machine Learning and Artificial Intelligence systems gave rise to development of smart environments. Within a smart environment users are able to receive informations about or from the physical world that were previously unavailable and, moreover, interconnect it to exchange and use this information with the digital world. The number of connected devices keeps increasing exponentially, as well as the data that is collected by these devices that need to be properly analyzed. Extraction of meaningful information and data correlation from such data is a key factor for successful implementation in the smart environment scenarios. Great progress in technology, that include low-cost and massive computing, hardware and storage facilitated Machine Learning implementations that hold a vast potential for data analysis and precise predictions made from the past observations for given new measurements. Existing energy inefficient and costly solutions are based on data received from the power hungry/expensive sensors that are transmitting the sensed data over the wireless channel. Maintenance of such devices becomes an issue after a certain time, mostly due to the battery depletion for a large number of devices. Therefore, novel smart solutions need to provide cost- and energy-effective devices that have unique advantage over the present solutions. Researchers from various engineering areas are invited to provide their input on these subjects.

Topics of interest include, but are not limited to:

- Smart urban and rural environments
- Smart buildings, homes and offices
- Smart residential and industrial environments
- Smart vehicles, traffic and parking
- Smart agricultural systems
- Smart healthcare and medical devices
- Smart sensors and remote sensing in smart environments
- Smart wearables, clothing and fabrics
- Artificial intelligence and machine learning in smart environments
- Wireless communication networks for smart environment applications
- Energy harvesting technologies for smart devices
- Smart locationing and positioning systems.

Authors wishing to submit papers for this SI should prepare the manuscript according to the Author Guidelines (<https://jcoms.fesb.unist.hr/author-guidelines/>) and submit it by pressing SUBMIT AN ARTICLE. Submissions must be original and should not have been previously published or been under consideration for publication while being evaluated for this Special Issue. Only extended papers from the International Conference on Smart and Sustainable Technologies (SpliTech 2021) are free of charge. All other authors are required to pay an article processing charge of 250 EUR after the article has been accepted for publication.

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IMPORTANT DATES

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More information about the JCOMSS including details on the submission process and authors kit is available on the website:

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