

INVITATION to contribute to the REV2021 - SPECIAL SESSION: SMS-IUD

IoT - Smart Materials and Systems (INDUSTRY – UNIVERSITY – DEVELOPERS)

This Special Session organised like a “mini conference”. We applied this at IMCL2019/ICL2020 and we think can be extended to Rev2021 Conference. In opening we invited two technical conferences from INDUSTRY-DEVELOPERS (20 min. presentations).

This “technical presentations” will be followed by 5-6 normal papers connected with IoT, IIoT Smart Materials and Systems. Extended version or selected papers of presented communications can be published in IAEOE publications http://online-engineering.org/RES_journals.php and/or in “Emergent Materials” Journal <https://www.springer.com/journal/42247>.

The Industrial Internet of Things (IIoT) and smart materials and manufacturing initiatives are accelerating the creation of new technologies, transforming global manufacturing. Innovation in digital technologies (IoT, IIoT, medical IoT, Energy Harvesting, etc.) will have to be accompanied by advances in manufacturing processes and materials, to keep up with the transition.

Internet of Things (IoT) and Smart Materials (SM) are an expansive heterogeneous field, where technologies are replaced faster than the engineering staff. As a consequence, traditions for education and graduation of engineers specialized in IoT and SM are not yet established and necessity for INDUSTRY-UNIVERSITY-DEVELOPER collaboration start to be one actual and important field. Universities can be major resources in a company’s innovation strategy. But to extract the most business value from research (INDUSTRY, DEVELOPERS, companies need to change their modality of thinking and follow new rules (share with universities collaboration bilateral advantages, develop long-terms relationship, develop university-industry fast communication, sustain fast research results implementation, etc.)

Authors are invited to submit complete papers for the **SMS-IUD Special Session** (no abstracts needed). The topics cover all aspects of IoT Smart Materials and Systems, including but not limited to the following:

- IoT, IIoT and medical IoT systems (Sensors)
- Cloud Instrumentations
- Energy Harvesting
- IoT Services
- Smart Materials (Piezoelectric, Shape Memory Alloys, Magnetostrictive, Electroactive Polymers, Bi-Component Fibers, Hydrogels, etc.)
- IoT Networks and Security
- Industry – University Collaborations
- IoT Market Desires and Future
- Smart Homes (Illumination control, Automation, Monitoring, etc.)
- Scalable Systems
- Hardware and Software in Smart Systems
- 5G wireless integration
- New Li-Fi solutions, etc.



Chairs

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