

2019 IEEE INTERNATIONAL WORKSHOP ON Metrology for Industry 4.0 and IoT

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CALL FOR PAPERS for the Special Session on

HUMAN MOTION CAPTURE SENSORS, TECHNOLOGIES AND TECHNIQUES FOR INDUSTRY 4.0 AND IoT

ABSTRACT

Wearable technologies for movement monitoring can play a fundamental role in industrial scenarios: identifying sensors and methods to assess the workers biomechanics in ecological scenarios would allow designing better workplaces and, potentially, reduce the occurrence of work-related musculoskeletal injuries due to non-ergonomic postures, repetitive tasks or excessive musculoskeletal loads on specific joints.

Sensory systems mainly based on optical sensors (e.g., cameras) and wearable sensors may collect physiological, environmental, physical signals providing useful data for both safety and ergonomics evaluations. Additionally, such sensors when integrated into an IoT architecture can contribute to the development of novel and sophisticated technologies and techniques for the user detection, analysis and monitoring, at distance and with no workspace limitation.

This special session aims at collecting and discussing novel methods and latest results about unobtrusive and wearable sensors, systems, as well as technologies and techniques related to the assessment of workers in industrial scenarios.

TOPICS

Submissions are welcomed on (but not limited to):

- Wearable sensing systems for human motion capture
- Unobtrusive sensing systems, techniques and methods for human motion capture
- Internet of things (IoT) for wearables and unobtrusive monitoring systems, networking and interoperability
- Innovative applications and case studies
- Reliability, validity, accuracy and limitations of sensors, technologies and techniques
- Data fusion or processing for accurate signal estimation
- Assessment of gestures and postures
- Human-machine interface

This Special Session has been organized under the auspices of the IEEE Sensors Council Italy Chapter.



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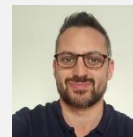
ORGANIZERS



Carlo Massaroni
Università Campus Bio-Medico di Roma, Italy
 c.massaroni@unicampus.it



Simona Crea
Scuola Superiore Sant'Anna, Italy
 simona.crea@santannapisa.it



Eduardo Palermo
Sapienza University of Rome, Italy
 eduardo.palermo@uniroma1.it