SCIRS 2020
1st International Workshop on Smart Computing
for Industrial and Real-World Systems

Welcome from the Program Co-Chairs

It is our great pleasure to welcome you to the 1st IEEE International Workshop on Smart Computing for Industrial and Real-World Systems (SCIRS 2020) co-located with the 6th IEEE International Conference on Smart Computing (SMARTCOMP 2020) held on September 2020.

The spread of the Internet of Things (IoT) in industrial environments has fostered the development of new Industrial IoT (IIoT) applications and, more in general, the advent of the Industry 4.0 revolution. The current trend is towards the development of connected machines able to interact with each other as well as to send data and access cloud and Internet services. Smart components and services within industrial environments represent a novel and promising solution not only to better support QoS requirements, but also to more easily reconcile safety requirements of Operational Technology with the openness and dynamicity typical of the Information Technology. Moreover, the emergence of edge devices equipped with relatively high computational, memory, and storage capabilities facilitates the adoption of these technologies. They are not only able to increase the efficiency of existing industrial processes, e.g., by more promptly identifying faulty machines to reduce the downtime and maximize OLE/OEE KPIs, but also to provide new business opportunities, e.g., by widening the market through the provision of industrial equipment based on pay-per-use fees.

The objective of the SCIRS 2020 workshop is to provide a forum to exchange ideas, share experience, and enhance collaborations in various aspects of smart computing in industrial environments, by focusing on real-world use cases and applications.

We thank all the authors for submitting their work. We are grateful to the TPC members for their hard work in reviewing the papers.

We hope you enjoy this workshop. Thank you for your participation.

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