CONCURRENT ENGINEERING: Research and Applications

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Call for papers—
Concurrent Engineering: Research and Applications: An International Journal Special Issue on
"Intelligent, smart products, and processes"

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In the current context of industrial renewal (factory of the future, advanced manufacturing, industrial connected objects, etc.), the concept of the intelligent product (IP) and close concepts such as "smart product," "smart thing," or "product-driven control" are of increasing importance. These concepts exploit the idea for a product to participate in the decision-making processes that concerns itself or others IP, during its whole life cycle, from its design to its recycling including its manufacturing, use, and maintenance. In our changing environment, this concept has an important potential impact on criteria such as cost, efficiency reactivity, and sustainability. This notion of intelligent or smart product can be extended toward the concept of intelligent processes, for example, intelligent design, manufacturing, maintenance, quality, tractability, and processes.

IPs and processes require to reconsider the organization, control, and management of production systems and aim at dropping the barriers faced by today's factory systems in terms of reactivity, adaptability, energy, sustainability, and so on. Industrialists and researchers must together face new challenges to study, specify, and develop new models, methods, and tools supporting the future advanced production systems based on ''self'' properties such as self-organization, self-adaptation, and self-reconfiguration.

This *Concurrent Engineering: Research and Applications (CERA)* Special Issue on "Intelligent, Smart Products, and Processes" solicits papers focusing on topics that include but are not limited to the following:

- IPs and smart products;
- Product-driven control and reference control architectures;
- Tools for smart engineering and smart product development;
- Innovative and concurrent designs for IPs, processes, and systems;
- Intelligent materials, meta-products, industrial connected objects, and industrial Internet of things (IoT);
- Intelligent process, green production, and intelligent sustainable systems;
- Smart factory, industrial cyber physical system, industry 4.0, and micro-factories;
- Intelligent manufacturing system (IMS), holonic manufacturing system (HMS), and multi-agent system (MAS);
- Interoperability, management systems (manufacturing execution system (MES), enterprise resource planning (ERP), advanced planning and scheduling (APS), etc.), product life cycle management (PLM), and man–IP interactions;
- Modeling, simulation, and optimization: Operational Research and Artificial intelligence.

Important deadlines for submission:

- Full papers due review: 30 September 2015
- Notification of acceptance to authors: 4 January 2016
- Revised manuscript submission: 26 February 2016
- Final decision: 25 April 2016
- Final manuscripts: 30 May 2016

Submission

Papers will be reviewed by a committee in order to select papers for publication in the Special Issue. Please submit papers online according to the procedure and the form of *CERA* journal. Please visit the following link: http://cer.sagepub.com

Twenty pages of double-spacing manuscript (8.5″ × 11″ paper; font style: Times New Roman; font size: 11 point) are free to authors. If the accepted papers exceed 20 manuscript pages (each figure or a table is counted as a single page), an extra-page surcharge would be leveled to the authors of over 20-page paper. Rates are published officially on the SAGE web site.

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