

Special Issue on Fuzzy Systems Applications in Industry 4.0

CALL FOR PAPERS

In recent years, the concept of “Industry 4.0” is becoming increasingly important in the world. With the integration of information, communication, and control technologies, cyber-physical system (CPS) and service innovation are developed to realize the goal of advanced manufacturing. CPS is defined by the integration of physical systems with complex computation and networking. Industries provide the customers with value-added service, including cost reduction, low inventories, and increased productivity. The smart factory is a key role of Industry 4.0 that addresses the vertical integration and networked manufacturing systems for intelligent production. By using the generated data from sensors, the internet of things (IoT) can supply a system for the monitoring and control of the physical world. The big data is uploaded to a cloud computing center to analyze and make decisions to achieve smart factories.

Based on the engineering experience, the fuzzy logic technologies have been developed to consider the problems of optimization and decision making in the presence of uncertainty. Many applications of fuzzy logic in industry have been successfully developed. We are soliciting high quality; original research papers as well as reviews focused on the applications of knowledge based fuzzy systems in Industry 4.0.

Potential topics include but are not limited to the following:

- ▶ Cyber-physical systems
- ▶ Smart factory and smart manufacture
- ▶ Cloud and big data environments
- ▶ Internet of Things and security
- ▶ Service management and marketing
- ▶ Product design and intelligent analytical techniques
- ▶ Smart devices, sensors, network, and robots

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