



### **Aims and Scope**

Intelligent automation is achieved by implementing humanlike intelligence and soft computing (computational intelligence) tools and techniques, a concept that encompasses intelligence-based methods including fuzzy logic, neural networks, genetic algorithms, genetic programming, and Bayesian networks.

**Intelligent Automation and Soft Computing:** *An International Journal* seeks to provide a common forum for the dissemination of accurate results about the world of intelligent automation, control, manufacturing, modeling and systems engineering. It is intended that the articles published in the journal will encompass both the short and the long term effects of soft computing and other related fields such as robotics, control, computer, vision, speech recognition, pattern recognition, data mining, big data, data analytics, machine intelligence and deep learning. It further hopes it will address the existing and emerging relationships between automation, systems engineering, system of systems engineering and soft computing.

The journal will publish **original** and **survey** papers on intelligent automation and systems engineering with an emphasis on current and potential applications of soft computing. It will have a broad interest in all engineering disciplines, computer science, and related technological fields such as medicine, biology operations research, technology management, agriculture and information technology. Topics to be considered include but not limited to:

**Intelligent Automation:** Robotics, industrial inspection, design automation and rapid prototyping, scheduling, process control and automation, autonomous systems, computer integrated manufacturing, multi-agent systems, intelligent system of systems, nanotechnology, stochastic learning automation, autonomous control, cyber-physical (system of systems) systems, applications in space- and earth-bound systems.

**Soft Computing:** Neural networks, neurocomputing, fuzzy logic, genetic algorithms, genetic programming, AI and expert systems, probabilistic reasoning, machine learning, learning control, fuzzy logic control, distributed intelligence, image processing and self-organizing systems, data mining, big data management, clustering, and deep learning.

All papers are subject to a thorough peer review. The key criterion in the review process is whether the paper contains a novel and innovation contribution that is sufficient to be of significant interest to the research and application in the areas of intelligent automation and soft computing, rather than simply the use of well-known methods to a different application.