Computational Intelligence and Neuroscience

Special Issue on
Computational Intelligence and Neuroscience in Neurorobotics

CALL FOR PAPERS

Computational intelligence and neuroscience play an important role in robotics applications to improve the robot's capacities not only in increasing productivity in manufacturing but also in intelligence development so that robots can substitute human's thinking and planning capacity. Recently, neuroscience has been applied to robots to generate intelligence models with biological nervous systems. The intersection between robotics and neuroscience highlights many promising approaches and applications, for example, the neurorobots, brain-inspired algorithms and devices in robotics, and neural network based navigation. This leads to one of the most significant paradigm shifts and improvements in the robotics field. The principal aim of this special issue is to publish quality papers of new developments and trends, novel techniques, and innovative methodologies on the theories and applications of computational intelligence and neuroscience in robotics.

Potential topics include but are not limited to the following:

- ▶ Neural networks for biological and biomedical robots
- ▶ Neuro-inspired robot navigation
- ▶ Decision support systems in neurorobotics
- ▶ Intelligent fault detection and identification in neurorobotics
- ▶ Clustering and data analysis in neurorobotics
- ▶ Swarm robotics based on neural networks
- ▶ Neuro-fuzzy control design for cooperative robots

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/cin/cir/.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Somyot Kaitwanidvilai, King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand
somyot.ka@kmitl.ac.th

Guest Editors

Uma Seeboonruang, King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand
uma.se@kmitl.ac.th

Hisayuki Aoyama, University of Electro-Communication, Tokyo, Japan
aolab-office@net.aolab.mce.uec.ac.jp

Khemraj Emrith, University of West of England, Bristol, UK
khemraj.emrith@brl.ac.uk

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