

Tentative Outline

Special Thematic Issue for the journal CURRENT CHINESE COMPUTER SCIENCE

Current Trends in Cognitive Science and Brain Computer Interface Applications

Guest Editors: Dr. G. R. Sinha

• Scope of the Thematic Issue:

Cognitive Science and Brain Computer Interface (BCI) deals with interpretation of brain signals and decision making based on the signal description. Various imaging modalities are used such as fMRI, EEG for the interpretation of brain signals. Current trends of these areas of research focus on assessment of cognitive ability. The main objectives of the Thematic issue are:

- To study the impact of cognitive science and BCI based research using modern machine learning tools such as Deep Learning
- To investigate the research in the area of cognitive ability of human brain
- To study the application of BCI in self-driving cars and similar applications

Keywords: Cognitive science; brain computer interface; brain imaging; cognitive ability; machine learning; human brain signal interpretation; feature selection and optimization. #

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Cognitive Ability Assessment
- Cognitive Internet of Things
- Cognitive Informatics and Applications of BCI
- Future Research Direction of Cognitive Science and BCI

Tentative titles of the articles and list of contributors:

- I have done two volumes of Edited books on “Cognitive Informatics, Computer Modelling and Computer Science” with Elsevier (under production stage):
<https://www.elsevier.com/books/cognitive-informatics-computer-modelling-and-cognitive-science/sinha/978-0-12-819443-0> &
<https://www.elsevier.com/books/cognitive-informatics-computer-modelling-and-cognitive-science/sinha/978-0-12-819445-4>.
- I have also edited two more books with Springer and IOP recently : <https://www.springer.com/gp/book/9783030304355> and <https://iopscience.iop.org/book/978-0-7503-2404-5>

Schedule:

- ✧ Thematic issue submission deadline: 31 March 2020
- ✧ Peer Review Due: February 15, 2020
- ✧ Revision Due: March 10, 2020
- ✧ Announcement of acceptance by the Guest Editors: March 30, 2020
- ✧ Final manuscripts due: March, 2020

Contacts:

Guest Editor Name: Dr. G.R. Sinha

Affiliation: Professor, Myanmar Institute of Information Technology Mandalay, Myanmar

Email: gr_sinha@miit.edu.mm