Special Session Call for Papers

SMC2015 Special Session on Multimodal Brain Computer Interface and Physiological Computing

Special Session organizer

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Introduction
Advancements in Brain Computer Interfaces have introduced integration of multiple brain signal modalities to improve its robustness and efficiency. Further, evaluating physiological changes along with neural modulations can offer an alternative mode of input to the computing systems, which delivers machine/computer control. The 2015 IEEE SMC special session is a fruitful platform for scholars, scientists, educators, engineers, and entrepreneurs to disseminate the latest research progresses in the field of multimodal BCI and physiological computing. This special session aims to provide the opportunity for researchers from both academia and industry to present their latest work, share ideas and establish contacts with other researchers in their field.

Indicative Topics/Areas
Research areas relevant to this special session include, but are not limited to the following topics:

1. Enhancing BCI by integrating multiple brain data acquisition modalities
2. Multimodal BCI signal processing
3. Multimodal neuroimaging and neurofeedback
4. Neurophysiology studies using multimodal BCI
5. Current trends in BCI and physiological computing
6. Human Computer Interfaces and implicit interaction
7. Neural signals in physiological computing
8. Next-generation computer games: BCI and HCI
9. Virtual reality and navigation applications of HCI
10. Affective computing
11. Emerging approaches in clinical rehabilitation using HCI
12. Human performance evaluation and enhancement
13. Multimodal and adaptive BCI systems
14. BCI and Physiological computing for emotion recognition
15. Multi-user BCI/HCI applications

We welcome your contributions to this special session. Your support will make the 2015 IEEE SMC a wonderful occasion and a successful conference.