Reviews in Neural Engineering, Neuroergonomics and Neurorobotics

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Message from the Guest Editors

Dear Colleagues,

Neural engineering aims to interface with and/or enhance the human neural system. Neuroergonomics specifically aims to improve work or learning productivity via neural engineering methods, while neurorobotics aims to interface neural systems and robots. Advancements in neural signal recording and stimulation hardware (e.g., new electrode concepts and placements, increasingly portable recording systems, magnetic, light, ultrasound, and interfering electrical field stimulation), neural signal processing methods (e.g., new denoising methods, source localization methods, Riemannian-geometry-based features), neural decoding algorithms, and new concepts in neural enhancement have recently resulted in much progress in these fields.

As these fields quickly grow, up-to-date summaries of research are needed to inform and focus the community on the latest challenges and opportunities. This Special Issue solicits reviews of recent work, including all methods for interfacing with or enhancing the neural system, enhancing productivity via neural engineering, and all approaches for linking robots with neural systems. Systematic reviews and focused reviews are welcome.

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Special Issue

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Message from the Editor-in-Chief

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