- Title of the invited session

Brain computer interface and its application to clinics

- Justification

Brain Computer Interface (BCI) could build the direct access between brain and external devices. BCI has its potential applications in extending healthy people’s ability, assistance for disabled people, motor function rehabilitation and clinical disease diagnosis. Due to its promising application in future, BCI has attracts wide researcher’s attentions from cross-disciplines like engineers, neuroscience researchers, and clinical doctors. The proposed session will provide a platform to report recent BCI development including the key techniques of BCI, the neural mechanism of BCI, and the clinical applications of BCI, etc.

- Short bio of the proposers together with contact email addresses

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**Peng Xu** received the B.S and Ph.D. degrees in biomedical engineering from the University of Electronic Science and Technology of China (UESTC), Chengdu, China in 2000 and 2006, respectively. He was a postdoctoral at Neural Systems and Dynamics Laboratory, University of California, Los Angeles form 2007.4 to 2009.2. Since 2014, he is a professor in school of life science and technology, UESTC. His research interest includes brain computer interface, biomedical signal processing, biomedical models and medical image analysis. He has more than 60 papers published on international journals.

- List of at least six potential contributors

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