



**Session :            Biomedical Signal Processing (Human Neural System Analysis)**

**Time: 10:50 – 12:50**



**USE OF ARTIFICIAL NEURAL NETWORKS TO STUDY CELL INTERACTIONS IN THE PRESENCE OF EM RADIATION ([Abstract](#))**

Özdemir Göl                            (University of South Australia, Australia)  
M. P. Pathegama                        (University of South Australia, Australia)



**BAYESIAN INFERENCE OF INTRAVOXEL STRUCTURE IN DIFFUSION MRI ([Abstract](#))**

Haifang Ge                                (Cambridge University, United Kingdom)  
William J. Fitzgerald                    (Cambridge University, United Kingdom)  
Hadrian A. L. Green                     (Addenbrooke's Hospital and Cambridge University, United Kingdom)



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**ESTIMATING COGNITIVE STATE USING EEG SIGNALS ([Abstract](#))**

Tian Lan	(OHSU, United States)
Andre Adami	(OHSU, United States)
Deniz Erdogan	(OHSU, United States)
Michael Pavel	(OHSU, United States)

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**COMPARATIVE PERFORMANCE OF TIME--FREQUENCY BASED EEG SPIKE DETECTION TECHNIQUES ([Abstract](#))**

Hamid Hassanpour (QUT, Australia)  
Luke Rankine (QUT, Australia)  
Mostefa Mesbah (QUT, Australia)  
Boualem Boashash (QUT, Australia)



**AN EVALUATION OF BRAIN TISSUE CLASSIFICATION IN NON-COMPENSATED ULTRASOUND IMAGES ([Abstract](#))**

Ewout Vansteenkiste (Ghent University, Belgium)  
Bruno Huysmans (Ghent University, Belgium)  
Wilfried Philips (Ghent University, Belgium)



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**IMPROVING THE ABILITY OF MATCHING PURSUIT ALGORITHM IN DETECTING SPIKES ([Abstract](#))**

Luke Rankine                      (QUT, Australia)  
Mostefa Mesbah                    (QUT, Australia)  
Boualem Boashash                (QUT, Australia)



**DESIGN AND IMPLEMENTATION OF A PROGRAMMABLE APNEA MONITORING SYSTEM ([Abstract](#))**

Mustafa Cavusoglu                (Middle East Technical University, Turkey)  
Osman Eroglu                        (GATA, Turkey)  
Ziya Telatar                          (Ankara University, Turkey)

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**KALMAN FILTER PARAMETERS AS A NEW EEG FEATURE VECTOR FOR BCI APPLICATIONS**

**(Abstract)**

- |                            |                              |
|----------------------------|------------------------------|
| Amir Hossein Omidvarnia    | (University of Tehran, Iran) |
| Farid Atri                 | (University of Tehran, Iran) |
| Seyed Kamaledin Setarehdan | (University of Tehran, Iran) |
| Babak Najjar Arabi         | (University of Tehran, Iran) |

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**AUTOMATIC SLEEP SPINDLE DETECTION AND LOCALIZATION ALGORITHM ([Abstract](#))**

Fazil Duman	(Baskent University, Turkey)
Osman Eroglu	(GATA, Turkey)
Ziya Telatar	(Ankara University, Turkey)
Sinan Yetkin	(GATA, Turkey)

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