First Biomedical Engineering conference 2015

5th March 2015







Conference venue: The conference will be held in Aula TS118, Campus Torre dels Frares, Universitat de Vic-Universitat de Catalunya (Carrer de la Laura.

Time: 15:00 - 17:25

13 08500 Vic)

PROGRAM OVERVIEW

15.00 - 15.05 Opening session 15:05 - 15:45 Invited talk by Prof. C. Jutten

(GIPSA-lab, Grenoble, France)

Title: Dynamical analysis of iEEG of epileptic rats Abstract: Source separation is able to explain multidimensional data by factorizing them as a

product of latent variables, called sources, by activation functions. temporal considering such processing in successive time windows one can wonder how the factorization, i.e. sources and activation functions, are changing along the successive windows. This can be used for analysina dynamics of multidimensional signals. In this talk, we apply this idea for understanding, from intracortical EEG of epileptic rats, where an epileptic seizure is starting and how it is

15:45 - 16:25 Invited talk by Dr. F. Vialatte (ESPCI ParisTech, Paris, France)

temporally changing.

Title: Towards cognitive brain-computer interfaces (BCI) Abstract: compensating, training, reparing or stimulatina cognitive functions transhumanist dream. New trends in cognitive neuro engineer may allow it in a near future.

We will discuss paradiams of cognitive BCI and

16:25 - 16:40 Coffee break

their limits.

16:40 - 17:25 Invited talk by Starlab (Barcelona, Catalunya) which includes a demonstration of real EEG equipment.

17:25 - 17:30 Closing session

With the collaboration of: