



ÚSTAV INFORMATIKY
SLOVENSKÁ AKADEMIA VIED

Pozývame Vás na

SEMINÁR ÚI SAV,

**ktorý sa bude konať v pondelok 5.12.2016 o 13.00 hod.
v zasadačke č. 102**

Program:

Dr. Juan Kamienkowski

University of Buenos Aires, Argentina

Title:

Electric chats: Automatic detection of turn-taking events in continuous EEG data from spontaneous dialogues.

Abstract:

When engaged in dialogue, humans typically alternate conversational turns in a swift, incredible well-coordinated manner, with relatively few silences and overlaps. This is possible due to a set of acoustic, prosodic, lexical and syntactic cues produced by speakers near the end of speech segments, signaling upcoming turn transitions. Although there is a wide literature on these turn-taking cues in the speech, little is known on how these cues are perceived and processed by the listeners in order to anticipate turn-endings. During the talk I will describe a series of machine learning experiments for automatic classification of turn-taking transition based on features extracted from the brain activity. These were conducted on a corpus of unrestricted dialogues, with simultaneous recordings of speech and EEG from both speakers. Our results indicate that the listener's EEG signal contains useful information for predicting whether the current speaker will either yield the conversational turn or continue talking. These results could have important implications in language processing in naturalistic and interactive scenarios. Importantly, they may lead to new tools for the development of brain-computer interfaces.

Tešíme sa na stretnutie s Vami pri šálke kávy alebo čaju.

Ing. Ivana Budinská, PhD.
riaditeľka