Date: Tuesday, 6 March 2018, 17h
Place: IRH-ICUB (1 D. Brandza Str.), conference room

Dr. Liviu Badea
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Dr. Liviu Badea is a senior researcher I in computer science and heads the Artificial Intelligence and Bioinformatics group of the National Institute for Research and Development in Informatics (ICI). His main areas of research include machine learning, bioinformatics (cancer genomics) and neuroinformatics (resting state fMRI data analysis, functional connectomics).

Deep learning networks and neuroscience

Deep learning networks are very simple neural network models in computer science, which have been used with tremendous success in many varied fields such as computer vision, speech recognition, natural language processing, audio recognition, social network filtering, machine translation, bioinformatics, drug design, etc., where they have produced results comparable to and, in some cases, superior to those of human experts. However, even if they were inspired by real neural networks, deep learning networks differ significantly from the real brain networks. We aim to contrast the two in an attempt to better understand the fundamental computational principles of the human brain.