

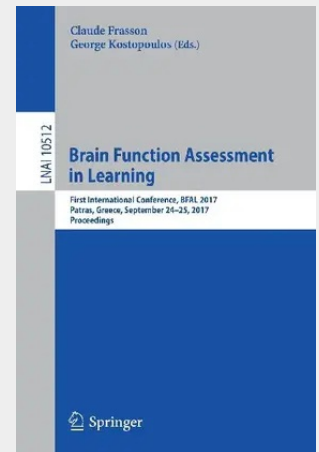
Brain Function Assessment in Learning

First International Conference, BFAL 2017, Patras, Greece, September 24-25, 2017, Proceedings

This book constitutes the thoroughly refereed proceedings of the First International Conference on Brain Function Assessment in Learning, BFAL 2017, held in Patras, Greece, in September 2017.

The 16 revised full papers presented together with 2 invited talks and 6 posters were carefully selected from 28 submissions. The BFAL conference aims to regroup research in multidisciplinary domains such as neuroscience, health, computer science, artificial intelligence, human-computer interaction, education and social interaction on the theme of Brain Function Assessment in Learning.

Affective Learning: Principles, Technologies, Practice.- Understanding How Learning Takes Place with Neuroscience and Applying the Results to Education.- Intelligent Control and Cognitive Control: Issues and Challenges.- Tracing and Enhancing Serendipitous Learning with Viewpoints.- Online Brain Training Programs for Healthy Older Individuals.- Evaluating Active Learning Methods for Bankruptcy Prediction.- A Prognosis of Junior High School Students' Performance Based on Active Learning Methods.- The Effects of Working Memory Training on Cognitive Flexibility in Man.- Computers Cannot Learn the Way Humans Do -- Partly, Because They Do Not Sleep.- Modeling Animal Brains with Evolutive Cognitive Schemas.- Neural Knowledge Tracing.- Game Experience and Brain Based Assessment of Motivational Goal Orientations in Video Games.- Real-time Brain Assessment for Adaptive Virtual Reality Game: A Neurofeedback Approach.- Event-Related Brain Potentials from Pictures Relevant to Science Education.- Real-time Spindles Detection for Acoustic Neurofeedback.- Examining the Efficiency of Feedback Types in a Virtual Reality Educational Environment for Learning Search Algorithms.- Virtual Sophrologist: A Virtual Reality Neurofeedback Relaxation Training System.- Different Frequency-Dependent Properties Between Dorsal and Ventral Hippocampal Synapses.- Using Electroencephalograms to Interpret and Monitor the Emotions.- The Long Lasting Effect of Neonatal Handling on mGluR5 and Arc mRNA Levels in Medial Prefrontal Cortex of Rat Brain.- Escalating Low-dose Treatment in Adolescence Induces Spatial Memory Deficits in Adulthood.- Performance Comparisons of Classifiers Applied to Electroencephalogram Signals.- Quadcopter Control Based on Electroencephalogram Headset and Hybrid Fuzzy Classifier.- Support Vector Machine Approaches with Features Selection to Detect Cognitive States from Brain Images.- Support Vector Machine Optimized by Artificial Bee Colony Applied to EEG Pattern Recognition.



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