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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 1068
Disciplina	006.3
Soggetti	Artificial intelligence Computer vision Computer systems Database management Artificial Intelligence Computer Vision Computer System Implementation Database Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Artificial Intelligence, Machine Learning, and Related Topics -- Application of machine learning approaches to identify new anticonvulsant compounds active in the 6 Hz seizure model -- Motor Learning and Machine Learning: predicting the amount of sessions to learn the tracing task -- Kernel-spectral-clustering-driven motion segmentation: Rotating-objects first trials -- A New Granular Approach for Multivariate Forecasting -- Interactive analysis of the discussion from a virtual community on neuroscience -- Complex systems and complex Networks -- Influence of the contact network topology on the spread of tuberculosis -- Computational Neuroscience of Learning and Memory -- Association between fast and slow learning and molecular processes in repetitive practice: a post hoc analysis -- Reading Span

Test for Brazilian Portuguese: An eye-tracking implementation -- Neural Signal Processing -- Multi-harmonic analysis using magnitude-squared coherence and its application to detection of auditory steady-state responses -- EEG Classification of Epileptic Patients Based on Signal Morphology -- Epileptiform spike detection in electroencephalographic recordings of epilepsy animal models using variable threshold -- Graph Model Evolution During Epileptic Seizures: linear model approach -- Software and Hardware Implementations in Neuroscience -- A parallel RatSlam C++ library implementation -- Method for the Improvement of Knee Kinematics Accuracy based on Kinect and Sensors: Preliminary Results -- Eye-tracking data analysis during cognitive task -- Brain-computer Interfaces and Neurostimulation -- Towards a roadmap for machine learning and EEG-based brain computer interface -- Considerations on the individualization of motor imagery Neurofeedback training -- The muscle-machine interface after stroke in improvement of hand extension: Case report -- Electrographic spectral signatures of animals submitted to pentylenetetrazole-induced seizures and treated with bilateral asynchronous non-periodic stimulation -- Seizure Prediction -- On the validity of using probing stimuli for seizure prediction in the Epileptor model.

Sommario/riassunto

This book constitutes the thoroughly refereed proceedings of the Second International Workshop of Computational Neuroscience, held in São João Del-Rei, Brazil, in September 2019. The 17 full papers and 3 short papers presented have been thoroughly reviewed and selected from 45 submissions. The papers are organized in topical sections: artificial intelligence, machine learning, and related topics; complex systems and complex networks; computational neuroscience of learning and memory; neural signal processing; software and hardware implementations in neuroscience; brain-machine interfaces and neurostimulation; and seizure prediction.
