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Soggetti   Artificial intelligence
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                       Computer Vision
                       Computer System Implementation
                       Computer and Information Systems Applications

Lingua di pubblicazione Inglese

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Livello bibliografico Monografia

Nota di bibliografia   Includes bibliographical references and index.

Nota di contenuto   Interdisciplinary applications of Artificial Intelligence (AI) and Machine Learning (ML) -- Semantic segmentation of the cultivated area of plantations with U-net -- Use and Interpretation of Item Response Theory applied to Machine Learning -- AI and ML applied to robotics -- Towards Loop Closure Detection for SLAM Applications using Bag of Visual Features: Experiments and Simulation -- Loss Function Regularisation on the Iterated Racing Procedure for Automatic Tuning of RatSLAM Parameters -- Controlling the UR3 robotic arm using a leap motion: a comparative study -- AI and ML applied to biomedical sciences -- Web service based epileptic seizure detection by applying machine learning techniques -- Health issues and computational neuroscience -- Machine Learning Search of Novel Selective NaV1.2

and NaV1.6 Inhibitors as Potential Treatment against Dravet Syndrome -- Implementation of intra and extracellular nonperiodic scale-free stimulation in silico for the NEURON simulator -- In silico investigation of the effects of distinct temporal patterns of electrical stimulation to the amygdala using a network of Izhikevich neurons -- Software and hardware implementations in neuroscience -- Brain connectivity measures in EEG-based biometry for epilepsy patients -- A multiplatform output stage for the development of current-fixed electrical stimulators applied to neural electrophysiology -- Neuroengineering – science and technology -- Physiological self-regulation using biofeedback training: from concept to clinical applicability -- Movement-Related Electroencephalography in Stroke Patients across a Brain-Computer Interface-based Intervention -- Electrophysiological Correlates of Freeze of Gait in Parkinson Disease: Increased STN-LFP Alpha Power and the Possible Role of Attentional Circuits -- Effect of hand dominance when decoding motor imagery grasping tasks within the same hand -- Kinematic responses as a control strategy to visual occlusion.

| Sommario/riassunto | This book constitutes the refereed proceedings of the Third Latin American Workshop, LAWCN 2021, held in Sao Luis do Maranhao, Brazil, during December 8–10, 2021. The 13 full papers and 3 short papers included in this book were carefully reviewed and selected from 27 submissions. They were organized in topical sections as follows: Interdisciplinary applications of Artificial Intelligence (AI) and Machine Learning (ML); AI and ML applied to robotics; AI and ML applied to biomedical sciences; Health issues and computational neuroscience; Software and hardware implementations in neuroscience; and Neuroengineering – science and technology. |