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Nota di contenuto	-- AI for Brain Science. -- Comparision of Brain Visual Cortex and CNN Under Continuous Object Property Space. -- CoCoG-2: Controllable Generation of Visual Stimuli for Understanding Human Concept Representation. -- Uncovering Cognitive Taskonomy Through Transfer Learning in Masked Autoencoder-based fMRI Reconstruction. -- Interpersonal Relationship Analysis with Dyadic EEG Signals via Learning Spatial-Temporal Patterns. -- Effect of Music Training in Neural Responses to Emotional Speech Prosody: Insights from EEG and Brain Network Analysis. -- Potential Indicator for Continuous Emotion Arousal by Dynamic Neural Synchrony. -- Exploring EEG-Based Neural Correlates of Multivariate Ordinal Emotion Representations. -- The Co-varying Multimodal Pattern in Treatment-resistant and Non-

treatment-resistant Schizophrenia. -- Investigating the Dynamics of Seizure Neuroactivities Using Hidden Markov Model. -- Suppressing Seizure via Optimal Electrical Stimulation to The Hub of Epileptic Brain Network. -- AI for Brain Technology. -- SVFormer: A Direct Training Spiking Transformer for Efficient Video Action Recognition. -- BL-BERT: Extracting Body Language from Behavior Sequences in Freely Moving Mice. -- Benchmarking Neural Decoding Backbones towards Enhanced On-edge iBCI Applications. -- Enhanced Local Attention with Deep Neural Networks for EEG Decoding. -- Mirror Contrastive Loss Based Sliding Window Transformer for Subject-independent Motor Imagery Based EEG Signal Recognition. -- Active Urinary Detection using EEG Based on FBCNet. -- D2CAN: Domain-guided Contrastive Adversarial Network for EEG-based Cross-subject Cognitive Workload Decoding. -- Group-specific Fusion Model and its Application in Identifying Multimodal Co-varying Diagnostic Patterns for Psychiatric Disorders. -- Multi-category Brain Tumor Segmentation via Multi-scale and Cross-category Relation Modeling. -- Consistent Brain Age Difference in Childhood Autism Spectrum Disorder and its Subtypes. -- Brain-Aware Readout Layers in GNNs: Advancing Alzheimer's early Detection and Neuroimaging. -- TSICNet: Importance of Connectome Information for Epilepsy Classification. -- Brain-inspired AI. -- A Brain-Inspired Distributed Long-Term Memory Guided Online Continual Learning Method. -- Memory Sequence Length of Data Sampling Impacts the Adaptation of Meta-Reinforcement Learning Agents. -- Parameter-Efficient Fine-Tuning of ChatGLM to Mitigate Hallucinations in Chinese Abstractive Summarization. -- TUN-GCA: A Novel Approach for Organ Segmentation in Nasopharyngeal Carcinoma CT Images. -- Convolutional Neural Networks Based on Axial Counting Attention for Deburring Cross-sectional Images of Aluminum Profiles. -- Assessing the Feasibility of using AI Models to Simplify Brain Imaging Reports for Patients: A Comparative Analysis of Four Large Language Models. -- How Do Transformers Integrate Meanings? An Investigation Using Interpretable Brain-Based Componential Semantics in Two-Word Phrases.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Workshop on Human Brain and Artificial Intelligence, HBAI 2024, held in Jeju Island, South Korea, on August 3, 2024. The 24 full papers and 5 short papers included in this book were carefully reviewed andselected from 74 submissions. They were organized in topical sections as follows: AI for brain science; AI for brain technology; and brain-inspired AI.