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Nota di contenuto	-- The International Workshop on Generative AI Empowers Brain Signal Processing. -- Brain Causality Modeling using Structure-guided Spatiotemporal Diffusion Model for MCI Analysis. -- Spatiotemporal Feature Extraction and Fusion for Longitudinal Alzheimer's Disease Diagnosis. -- Intelligent Diagnosis Platform for Alzheimer's Disease Based on Multimodal Knowledge Graph. -- Federated Multi-source Domain Adaptation via Vision Transformer for Multi-site Alzheimer's Diagnosis. -- Comparative Analysis of Channel Selection Methods for EEG-Based Emotion Recognition Balancing Accuracy and Efficiency. -- DoA Assessment based on EEG DFA and Entropy Features. -- The International Workshop on Web Intelligence meets Brain Informatics. -- A Multi-loop Reveals Different Neural Mechanisms of Inductive Reasoning in DLPFC and SPL. -- The 4th Workshop on Environmental Adaptation and Mental Health (EAMH 2024). -- The Role of Episode

Simulation in Influencing Junior Middle School Students' Future Time Insight and Subjective Well-being. -- Self-determined or Non-self-determined? Research on the Influence of Internal and External Motivations on Fund Investment Decisions. -- The International Workshop on Application of Artificial Intelligence and Innovative Technologies in Brain Informatics and Health (AAITBIH 2024). -- A VR-BCI System to Support Rehabilitation for Stroke Patients. -- Integrating Multimodal Spatiotemporal Brain Data with Spiking Neural Networks. -- The International Workshop on Reconstruction and Modeling of the Brain at the Single-Cell Level (RMBSCCL 2024). -- High Throughput Training Label Generation from Whole Brain Images. -- The International Workshop on Mesoscopic Brain-wide Connectivity Atlas in Brainsmatics (MBCAB2024). -- Sex Differences in Brain Information Processing: Insights from Specific Brain Regions and Hemispheric Connectivity. -- The 4th Special Session on Explainable Artificial Intelligence for Unveiling the Brain: From the Black-Box to the Glass-Box (XAIB 2024). -- Probing Temporal Filters of Vision via a Falsifiable Model of Flicker Fusion. -- A Convolutional Neural Network with Feature Selection for Generating Explainable 1D Image Information for Brain Disease Diagnosis. -- The International Workshop on Elucidation of Mechanistic Information using Neuroimaging for Psychiatric Disorders (EMINPD 2024). -- White Matter Integrity in Youth with Suicide Ideation/Suicide Attempt, Major Depressive Disorder, and Comorbidities: A Diffusion Tensor Imaging Study. -- Imaging Analysis of Calcium Activities in Brain Organoid Model of Neuropsychiatric Disorder.

#### Sommario/riassunto

This book constitutes the proceedings of the 17th International Conference on Brain Informatics, BI 2024, which was held in Bangkok, Thailand, during December 13–15, 2024. The 35 full papers 17 workshop papers presented in this book were carefully reviewed and selected from 126 submissions. These papers have been organized in the following topical sections: Part I- Cognitive and Computational Foundations of Brain Science; Investigations of Human Information Processing Systems; Brain Big Data Analytics, Curation and Management; Informatics Paradigms for Brain and Mental Health Research; Brain-Machine Intelligence and Brain-Inspired Computing. Part II- The International Workshop on Generative AI Empowers Brain Signal Processing (GAIEBSP 2024); The International Workshop on Web Intelligence meets Brain Informatics (WImeetsBI 2024); The 4th Workshop on Environmental Adaptation and Mental Health (EAMH 2024); The International Workshop on Application of Artificial Intelligence and Innovative Technologies in Brain Informatics and Health (AAITBIH 2024); The International Workshop on Reconstruction and Modeling of the Brain at the Single-Cell Level (RMBSCCL 2024); The International Workshop on Mesoscopic Brain-wide Connectivity Atlas in Brainsmatics (MBCAB 2024); The 4th Special Session on Explainable Artificial Intelligence for Unveiling the Brain: From the Black-Box to the Glass-Box (XAIB 2024); The International Workshop on Elucidation of Mechanistic Information using Neuroimaging for Psychiatric Disorders (EMINPD 2024).