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Nota di contenuto	Neural Dynamics in Motor and Sensory Systems and in Cognitive Functions -- Cognitive Network and Multi-Scale Neural Network Dynamics -- Neuroengineering, Neuroinformation and Brain Computer Interaction -- Modelling Higher-Order Functions and Dysfunctions -- Oscillation, Synchronization, Neural Plasticity, and Coordination Dynamics from Neural to Social Systems.
Sommario/riassunto	This book contains original articles submitted to the Seventh International Conference on Cognitive Neurodynamics (ICCN 2019). The brain is an endless case study of a complex system characterized by multiple levels of integration, multiple time scales of activity, and multiple coding and decoding properties. The contribution of several disciplines, mathematics, physics, computer science, neurobiology, pharmacology, physiology, and behavioral and clinical sciences, is necessary in order to cope with such seemingly unattainable complexity that transforms the experimental information into a tricky puzzle which hides the correspondence with model predictions. This

conference gathered active participants to discuss ideas and pose new questions from different viewpoints, ranging from single neurons and neural networks to animal/human behavior in theoretical and experimental studies. The conference is organized with plenary lectures, mini-symposia, interdisciplinary round tables, and oral and poster sessions.
