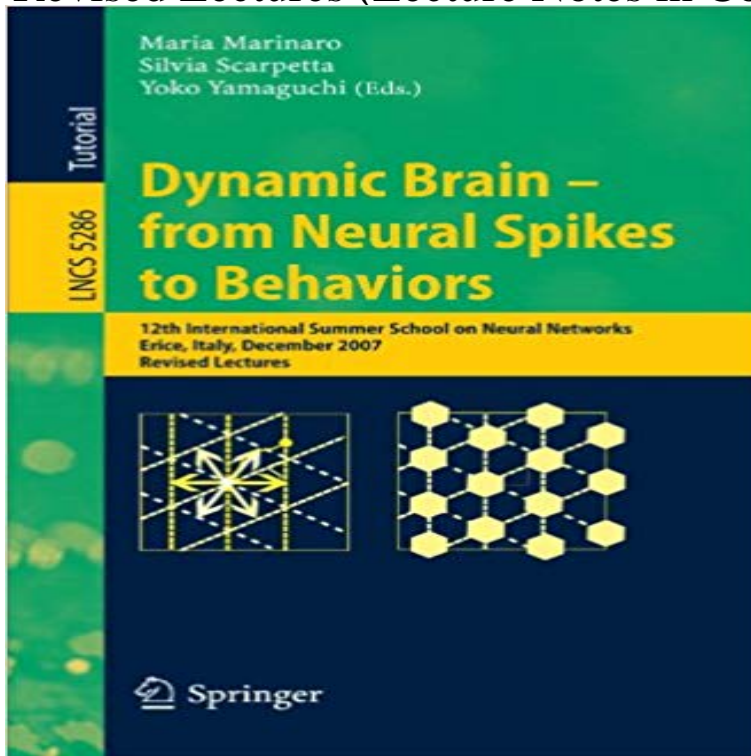


# Dynamic Brain - from Neural Spikes to Behaviors: 12th International Summer School on Neural Networks, Erice, Italy, December 5-12, 2007, Revised Lectures (Lecture Notes in Computer Science)



This volume contains invited and contributed papers presented at the 12th edition of the International Summer School on Neural Networks. Eduardo R. Caianiello, co-organized by the RIKEN BSI (Japan) and the Department of Physics of the University of Salerno (Italy). The 12th edition of the school was directed by Maria Marinaro (University of Salerno), Silvia Scarpetta (University of Salerno) and Yoko Yamaguchi (RIKEN BSI Japan) and hosted in the Ettore Majorana Center in Erice in Italy. The contributions collected in this book are aimed at providing primarily high-level tutorial coverage of the fields related to neural dynamics, reporting recent experimental and theoretical results investigating the role of collective dynamics in hippocampal and parahippocampal regions and in the mammalian olfactory system. This book is devoted to graduate students and researchers with different scientific background (including physics, mathematics, biology, neuroscience, etc.) who wish to learn about brain science beyond the boundary of their fields. Each lecture aimed to include basic guidance in each field. Topics of lectures include the hippocampus and entorhinal cortex dynamics and mammalian olfactory system dynamics, memory and phase coding, mechanisms for spatial navigation and for episodic memory function, oscillations in neural assemblies, cortical up and down states, and related topics where frontier efforts in recent decades have been successfully linked to a remarkable evolution of the field. April 2008 M. Marinaro S. Scarpetta Y. Yamaguchi

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