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Computational Neuroscience: Cortical Dynamics: 8th International Summer School on Neural Nets, Erice, Italy, October 31 - November 6, 2003 Revised Lectures

By -

Springer. Paperback. Book Condition: New. Paperback. 164 pages. Dimensions: 8.9in. x 6.0in. x 0.4in. This volume contains invited and contributed papers presented at the eighth edition of the International Summer School on Neural Networks, dedicated to Prof. Eduardo R. Caianiello.

The school was established in 1996 by Prof. Antonio Zichichi, director of the Ettore Majorana Centre for Scientific Culture in Erice (Sicily), and Prof. Maria Marinaro, director of the International Institute for Advanced Scientific Studies in Vietri sul Mare, in Italy. The school is held each year, alternating between Erice and Vietri, proposing surveys on several research fields related to cybernetics studies and human-machine interaction. The eighth edition of the school was on cortical dynamics and was held in Erice. The contributions collected in this book are aimed at providing primarily high-level tutorial coverage of the fields related to cortical dynamics, reporting recent experimental and theoretical results investigating the processing, the transmission, and the imprinting of information in the brain, and important functions of the cortical area such as cortical rhythms, cortical neural plasticity, and their structural basis and functional significance. Height surveys, reporting the most recent original results, are offered by specialists in the field. Consequently, the volume may be used as a reference book on

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