



Computational Systems Natural and Artificial: Proceedings of the International Symposium on Synergetics at Schloss Elmau, Bavaria, May 4 9, 1987

By -

Springer. Paperback. Condition: New. 215 pages. Dimensions: 9.5in. x 6.7in. x 0.5in. This book contains the invited papers presented at an international symposium held at Schloss Elmau, Bavaria (FRG), May 4-9, 1987. Leading experts from neurobiology, medicine, physics, and the computer sciences joined together to present and discuss their most recent results. A particular example of the natural computational systems discussed is the visual system of man and animals. A bridge between neural networks and physical systems is provided by spin glass models of neural networks, which were also treated. Concrete realizations of new kinds of devices in microelectronics were among the further topics, as were general problems on the calculation of chaotic orbits. In this way these proceedings present a number of quite recent approaches to problems which are of great current interest in fields concerned with computational systems. Bringing together scientists from neurobiology, physics, and the computer sciences has been one of the main aims of the synergetics enterprise, and in particular of its international symposia, from the very beginning. For example, its first meeting held in 1972 at Schloss Elmau included, among others, papers by R. Landauer and J. W. F. Woo on cooperative...

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