1. Record Nr. UNISA996466125303316 From Natural to Artificial Neural Computation [[electronic resource]]: **Titolo** International Workshop on Artificial Neural Networks, Malaga-Torremolinos, Spain, June 7 – 9, 1995 Proceedings / / edited by Jose Mira, Francisco Sandoval Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, , 1995 **ISBN** 3-540-49288-7 Edizione [1st ed. 1995.] Descrizione fisica 1 online resource (XVIII, 1154 p.) Lecture Notes in Computer Science, , 0302-9743; ; 930 Collana Disciplina 006.3 Soggetti Artificial intelligence Computers Microprocessors Computer communication systems Numerical analysis Pattern recognition Artificial Intelligence Computation by Abstract Devices **Processor Architectures** Computer Communication Networks Numerical Analysis Pattern Recognition Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Nota di contenuto Are there universal principles of brain computation? -- Modeling cortical networks -- Cooperative organization of connectivity patterns and receptive fields in the visual pathway: application to adaptive tresholding -- Neurobiological inspiration for the architecture and functioning of cooperating neural networks -- Synaptic modulation based artificial neural networks -- Self-organization of cortical

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## Sommario/riassunto

This volume presents the proceedings of the International Workshop on Artificial Neural Networks, IWANN '95, held in Torremolinos near Malaga, Spain in June 1995. The book contains 143 revised papers selected from a wealth of submissions and five invited contributions; it covers all current aspects of neural computation and presents the state of the art of ANN research and applications. The papers are organized in sections on neuroscience, computational models of neurons and neural nets, organization principles, learning, cognitive science and AI, neurosimulators, implementation, neural networks for perception, and neural networks for communication and control.