



## Connectionist Models of Neurons, Learning Processes, and Artificial Intelligence: 6th International Work-Conference on Artificial and Natural Neural Networks, Iwann 2001 Granada, Spain, June 13-15, 2001, Proceedings, Part I

By -

Springer. Paperback. Book Condition: New. Paperback. 840 pages. Dimensions: 9.1in. x 6.1in. x 1.3in. Underlying most of the IWANN calls for papers is the aim to reassume some of the motivations of the groundwork stages of biocybernetics and the later bionics formulations and to try to reconsider the present value of two basic questions. The first one is:

What does neuroscience bring into computation (the new bionics)? That is to say, how can we seek inspiration in biology? Titles such as computational intelligence, artificial neural nets, genetic algorithms, evolutionary hardware, evolvable architectures, embryonics, sensory-motor systems, and emotional robotics are representatives of the present interest in biological electronics (bionics). The second question is:

What can return computation to neuroscience (the new neurocybernetics)? That is to say, how can mathematics, electronics, computer science, and artificial intelligence help the neurobiologists to improve their experimental data modeling and to move a step forward towards the understanding of the nervous system? Relevant here are the general philosophy of the IWANN conferences, the sustained interdisciplinary approach, and the global strategy, again and again to bring together neurobiologists and computer experts to consider the common

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