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| 1. | Record Nr. | UNINA9910484259303321 |
| | Titolo | Artificial neural networks-- ICANN 2006 : 16th international conference, Athens, Greece, September 10-14, 2006 : proceedings, part I / / Stefanos Kollias ... [et al.] (eds.) |
| | Pubbl/distr/stampa | Berlin, : Springer, 2006 |
| | ISBN | 3-540-38627-0 |
| | Edizione | [1st ed.] |
| | Descrizione fisica | 1 online resource (XXXIV, 1008 p.) |
| | Collana | Lecture notes in computer science, , 0302-9743 ; ; 4131<br>LNCS sublibrary. SL 1, Theoretical computer science and general issues |
| | Altri autori (Persone) | KolliasStefanos |
| | Disciplina | 006.3/2 |
| | Soggetti | Neural networks (Computer science)<br>Artificial intelligence |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | Bibliographic Level Mode of Issuance: Monograph |
| | Nota di bibliografia | Includes bibliographical references and index. |
| | Nota di contenuto | Feature Selection and Dimension Reduction for Regression (Special Session) -- Learning Algorithms (I) -- Learning Algorithms (II) -- Advances in Neural Network Learning Methods (Special Session) -- Ensemble Learning -- Learning Random Neural Networks and Stochastic Agents (Special Session) -- Hybrid Architectures -- Self Organization -- Connectionist Cognitive Science -- Cognitive Machines (Special Session) -- Neural Dynamics and Complex Systems -- Computational Neuroscience -- Neural Control, Reinforcement Learning and Robotics Applications -- Robotics, Control, Planning -- Bio-inspired Neural Network On-Chip Implementation and Applications (Special session). |
| | Sommario/riassunto | This book includes the proceedings of the International Conference on Artificial Neural Networks (ICANN 2006) held on September 10-14, 2006 in Athens, Greece, with tutorials being presented on September 10, the main conference taking place during September 11-13 and accompanying workshops on perception, cognition and interaction held on September 14, 2006. The ICANN conference is organized annually by the European Neural Network Society in cooperation with the International Neural Network Society, the Japanese Neural Network Society and the IEEE Computational Intelligence Society. It is the premier European event covering all topics concerned with neural |

networks and related areas. The ICANN series of conferences was initiated in 1991 and soon became the major European gathering for experts in these fields. In 2006 the ICANN Conference was organized by the Intelligent Systems Laboratory and the Image, Video and Multimedia Systems Laboratory of the National Technical University of Athens in Athens, Greece. From 475 papers submitted to the conference, the International Program Committee selected, following a thorough peer-review process, 208 papers for publication and presentation to 21 regular and 10 special sessions. The quality of the papers received was in general very high; as a consequence, it was not possible to accept and include in the conference program many papers of good quality.