1. Record Nr.   UNISA996465381603316

   Titolo   Artificial Neural Networks: Biological Inspirations – ICANN 2005
                        [[electronic resource]] : 15th International Conference, Warsaw, Poland,
                        September 11-15, 2005, Proceedings, Part I / / edited by Wlodzislaw
                        Duch, Erkki Oja, Slawomir Zadrozny

   Pubbl/distr/stampa   Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer,
                        , 2005

   ISBN   3-540-28754-X

   Edizione   [1st ed. 2005.]

   Descrizione fisica   1 online resource (XXXII, 708 p.)

   Collana   Theoretical Computer Science and General Issues, , 2512-2029 ; ; 3696

   Disciplina   006.3/2

   Soggetti   Artificial intelligence
                        Computer science
                        Pattern recognition systems
                        Application software
                        Database management
                        Neurosciences
                        Artificial Intelligence
                        Theory of Computation
                        Automated Pattern Recognition
                        Computer and Information Systems Applications
                        Database Management
                        Neuroscience

   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   Modeling the Brain and Cognitive Functions -- Special Session: The
                        Development of Cognitive Powers in Embodied Systems -- Spiking
                        Neural Networks -- Associative Memory Models -- Models of Biological
                        Functions -- Special Session: Projects in the Area of NeuroIT --
                        Evolutionary and Other Biological Inspirations -- Self-organizing Maps
                        and Their Applications -- Computer Vision -- Face Recognition and
                        Detection -- Sound and Speech Recognition -- Bioinformatics --
                        Biomedical Applications -- Special Session: Information-Theoretic

Concepts in Biomedical Data Analysis.

Sommario/riassunto	This volume is the first part of the two-volume proceedings of the International C- ference on Artificial Neural Networks (ICANN 2005), held on September 11–15, 2005 in Warsaw, Poland, with several accompanying workshops held on September 15, 2005 at the Nicolaus Copernicus University, Toru , Poland. The ICANN conference is an annual meeting organized 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 those fields. In 2005 the ICANN conference was organized by the Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland, and the Nicolaus Copernicus Univ- sity, Toru , Poland. From over 600 papers submitted to the regular sessions and some 10 special c- ference sessions, the International Program Committee selected – after a thorough peer-review process – about 270 papers for publication. The large number of papers accepted is certainly a proof of the vitality and attractiveness of the field of artificial neural networks, but it also shows a strong interest in the ICANN conferences.