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Systems -- Development Metodologies of Web Service Systems -- Applications I -- Distributed Systems II -- Data Mining and Data Classification -- Applications II -- Knowledge Discovery, Reasoning, Meta-Learning -- Applications III -- Commniciations and Image Processing -- Data/Information Management on Large-Scale Distributed Environments -- Home Care Applications 1 -- Home Care Applications 2 -- Medical Applications -- Adaptable Models -- AI Techniques -- Applied Technologies 1 -- Applied Technologies 2 -- Frameworks and Platforms -- Theoretical Approaches -- Text Mining -- Microarrays -- Cluster -- Pattern Recognition -- Systems Biology -- Bioinformatic Applications -- Phylogenetic -- Proteins -- Soco.1 -- Soco.2 -- Soco.3.

#### Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Work-Conference on Artificial Neural Networks, IWANN 2009, held in Salamanca, Spain in June 2009. The 167 revised full papers presented together with 3 invited lectures were carefully reviewed and selected from over 230 submissions. The papers are organized in thematic sections on theoretical foundations and models; learning and adaptation; self-organizing networks, methods and applications; fuzzy systems; evolutionary computation and genetic algorithms; pattern recognition; formal languages in linguistics; agents and multi-agent on intelligent systems; brain-computer interfaces (bci); multiobjeteive optimization; robotics; bioinformatics; biomedical applications; ambient assisted living (aal) and ambient intelligence (ai); other applications.