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Series Modelling Using Neural Networks: An Assessment of the Utility of a Stacking Methodology -- Experiments in Sparsity Reduction: Using Clustering in Collaborative Recommenders -- Identification of Visual Features Using a Neural Version of Exploratory Projection Pursuit -- How People Compare an Item's Placement in Two Alternative Categories -- Investigations into Market Index Trading Models Using Evolutionary Automatic Programming -- An Interactive Story Engine -- Coherence, Explanation, and Bayesian Networks -- Combining Case-Based Reasoning and Analogical Reasoning in Software Design -- Combination Methods for Improving the Reliability of Machine Translation Based Cross-Language Information Retrieval -- A System for Music Information Retrieval -- A New Bayesian Network Structure for Classification Tasks -- Evaluating Preference-Based Feedback in Recommender Systems -- Design of a Musical Instrument Classifier System Based on Mel Scaled Cepstral Coefficient Supervectors and a Supervised Two-Layer Feedforward Neural Network -- An Interactive Learning Environment for Knowledge Engineering -- Customising a Copying-Identi.er for Biomedical Science Student Reports: Comparing Simple and Smart Analyses -- A Hybridised GA for the Steiner Minimal Tree Problem -- Speaking Autonomous Intelligent Devices.

Sommario/riassunto

This book constitutes the refereed proceedings of the 13th Irish International Conference on Artificial Intelligence and Cognitive Science, AICS 2002, held in Limerick, Ireland in September 2002.The 16 revised full papers and 17 revised short papers presented were carefully reviewed and selected for inclusion in the book. Among the topics addressed are cognitive modeling, case-based reasoning, constraint processing, data mining, evolutionary computation, intelligent agents, information retrieval, knowledge representation, reasoning, machine learning, natural language processing, neural networks, perception, AI planning, robotics, and scheduling.