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Nota di contenuto	Evolutionary Image Analysis and Signal Processing Talks -- An Evolutionary Approach to Fitting Constrained Degenerate Second Order Surfaces -- Evolution of Digital Filters Using a Gate Array Model -- GA Optimisation of Spatio-Temporal Grey-Scale Soft Morphological Filters with Applications in Archive Film Restoration -- Simulation of Evolvable Hardware to Solve Low Level Image Processing Tasks -- Genetic Snakes for Medical Images Segmentation -- Evolving a Task Specific Image Operator -- Generation and Selection of Sensory Channels -- Evolutionary Image Analysis and Signal Processing Posters -- Selecting Potentials Filter Banks to Enhance Evoked Recordings Using Evolutionary Algorithms -- Evolution of Vehicle Detectors for Infrared Line Scan Imagery -- Genetic Programming for Channel Equalisation -- Improving Mutation Capabilities in a Real-Coded Genetic Algorithm -- Model-Based Object Recognition from a Complex Binary Imagery Using Genetic Algorithm -- Test Pattern Generation under Low Power Constraints -- Evolutionary Telecommunications Talks -- A Genetic Algorithm for Designing Networks with Desirable Topological Properties -- Approximate Equivalence Verification for Protocol

Interface Implementation via Genetic Algorithms -- Evolving Routing Algorithms with the JBGP-System -- Optimising Self Adaptive Networks by Evolving Rule-Based Agents -- Evolutionary Telecommunications Poster -- Genetic Construction of Optimal Circulant Network Designs.

Sommario/riassunto	This book consitutes the refereed joint proceedings of the First European Workshop on Evolutionary Computation in Image Analysis and Signal Processing, EvoIASP '99 and of the First European Workshop on Evolutionary Telecommunications, EuroEcTel '99, held in Göteborg, Sweden in May 1999. The 18 revised full papers presented were carefully reviewed and selected for inclusion in the volume. The book presents state-of-the-art research results applying techniques from evolutionary computing in the specific application areas.