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This book constitutes the refereed proceedings of the 19th International Symposium on Computer and Information Sciences, ISCIS 2004, held in Kemer-Antalya, Turkey in October 2004. The 99 revised full papers presented together with an invited paper were carefully reviewed and selected from 335 submissions. The papers are organized in topical sections on artificial intelligence and machine learning, computer graphics and user interfaces, computer networks and security, computer vision and image processing, database systems, modeling and performance evaluation, natural language processing, parallel and distributed computing, real-time control applications, software engineering and programming, and theory of computing.

Invited Talk　An Approach to Quality of ServiceArtificial Intelligence and Machine Learning　A New Classifier Based on Attribute Weighted Artificial Immune System (AWAIS)　Investigating the Effects of Recency and Size of Training ,Text on　Author Recognition Problem　Model Based Intelligent Control of a 3-Joint Robotic Manipulator:A Simulation Study Using Artificial Neural Networks　Knowledge Incorporation into ACO-Based Autonomous Mobile Robot　Navigation　The Effects of Data Properties on Local, Piecewise, Global, Mixture of Experts, and Boundary-Optimized Classifiers for Medical Decision Making　Learning Interestingness of Streaming Classification Rules　Using Fuzzy Petri Nets for Static Analysis of Rule-Bases　Protein Structural Class Determination Using Support Vector Machines .Computer Graphics and User Interfaces　Flexible and Interactive Crack-Like Patterns Presentation on 3D Objects　An Occlusion Culling Approach Based on Exploiting Multiple　Hardware-Accelerated Occlusion Queries for Dynamical Scenes　Acceleration of Perspective Volume Rendering Using Depth-Subsampling　An Efficient Camera Path Computation Using Image-Space Information in Virtual Endoscopy　Hair Motion Simulation　Interactive Mouse Systems Providing Haptic Feedback During the Exploration in Virtual Environment　Developing Finite State NLP Systems with a Graphical EnvironmentComputer Networks and Security　Bandwidth-Aware Scaling for Internet Video Streaming　The Abnormal Traffic Control Framework Based on QoS Mechanisms　Proximity-Based Overlay Routing for Service Discovery in Mobile　Ad Hoc Networks　Multicast Routing for Ad Hoc Networks with a Multiclass Scheme for　Quality of Service　HVIA-GE: A Hardware Implementation of Virtual Interface　Architecture Based on Gigabit Ethernet　Modeling TCP Loss Recovery Latency with the Number of Retransmissions　A Two-Step EM Algorithm for MAP Fitting　Performance Evaluation of the 802.16 Medium Access Control Layer……Computer Vision and Image ProcessingDatabase SystemsModeling and Performance EvaluationNatural Language ProcessingParalle and Distributed ComputingReal-Time Control ApplicationsSoftware Engineering and Programming SystemsTheory of ComputingAuthor Index

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