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Nota di contenuto	Database Systems -- Database System Architecture – A Walk Through Time: From Centralized Platform to Mobile Computing – Keynote Address -- Extending Wide-Area Replication Support with Mobility and Improved Recovery -- Extending Databases to Precision-Controlled Retrieval of Qualitative Information -- An Approach for Solving Very Large Scale Instances of the Design Distribution Problem for Distributed Database Systems -- Distributed and Parallel Algorithms -- On the Abstraction of Message-Passing Communications Using Algorithmic

Skeletons -- Implementing Distributed Mutual Exclusion on Multithreaded Environments: The Alien-Threads Approach -- On Time Analysis of Random Walk Based Token Circulation Algorithms -- Architecture for Media Streaming Delivery over P2P Networks -- On the Role of Information Compaction to Intrusion Detection -- A Hybrid Framework of RR Scheduler to Ensure Priority, Low Complexity and Delay with Relative Fairness -- Data Hiding in Identification and Offset IP Fields -- Interpretation of UML Sequence Diagrams as Causality Flows -- Real-Time Distributed Systems -- A Proposal for On-Line Reconfiguration Based upon a Modification of Planning Scheduler and Fuzzy Logic Control Law Response -- Integrated Tool for Testing Timed Systems -- Conformance Testing of Real-Time Component Based Systems -- Cooperative Information Systems -- Modeling Multiple Interactions Using Coloured Petri Nets: A Case Study -- A Framework for Information Integration with Uncertainty -- Model Fragmentation for Distributed Workflow Execution: A Petri Net Approach -- An Online Component Deployment System for Dynamic Collaborative Sessions -- Complexity in Collaborative Online Socio-Interactionist Environments: A Good Reason for Distributed Systems -- Fault Tolerance -- Injecting Communication Faults to Experimentally Validate Java Distributed Applications -- Implementing Rollback-Recovery Coordinated Checkpoints -- Information Retrieval -- An Identity-Based Model for Grid Security Infrastructure -- Lineage Tracing in Mediator-Based Information Integration Systems -- Combining Sources of Evidence for Recognition of Relevant Passages in Texts -- A Hierarchical and by Role Multi-agent Organization: Application to the Information Retrieval -- Modeling and Simulation -- Evaluating a Scientific SPMD Application on a Computational Grid with Different Load Balancing Techniques -- Increasing the Training Speed of SVM, the Zoutendijk Algorithm Case -- Video Motion Detection Using the Algorithm of Discrimination and the Hamming Distance -- An Efficient and Grain Preservation Mapping Algorithm: From ER Diagram to Multidimensional Model -- Quadratic Optimization Fine Tuning for the Learning Phase of SVM -- Wireless Networks and Mobile Computing -- WFCTA(Weighted Fair Channel Time Allocation) and Its Analysis for HR-WPAN -- Performance Analysis of Two Approaches to Service Discovery in Mobile Ad Hoc Networks -- BCTMA (Bi-directional Cut-Through Medium Access) Protocol for 802.11-Based Multi-hop Wireless Networks -- Some Security Issues of Wireless Systems -- Overview the Key Management in Ad Hoc Networks -- On Performance Improvement for 802.11-based Multi-hop Ad Hoc Wireless Networks -- Analysis of Context Transfer in Seamless IP Mobility -- Artificial Life and Multi-agent Systems -- An Introduction to Evolutionary Algorithms and Their Applications -- Distributed Anticipatory System -- Memory as an Active Component of a Behavioral Animation System -- Growing Functional Modules, a Prospective Paradigm for Epigenetic Artificial Intelligence -- Specifying Agent's Goals in 3D Scenarios Using Process Algebras -- A New Approach for Offer Evaluation in Multi-agent System Negotiation Based in Evidential Paraconsistent Logic -- A Voice-Enabled Assistant in a Multi-agent System for e-Government Services -- CAS – An Interface Generator in Natural Language to Information System -- A Formal Approach to Model Multiagent Interactions Using the B Formal Method -- Behavioral Self-control of Agent-Based Virtual Pedestrians -- ISSADS 2004 -- Security Challenges of Distributed e-Learning Systems -- A Component-Based Transactional Service, Including Advanced Transactional Models.

Sommario/riassunto

It is our pleasure to present the papers accepted and presented at the 5th International School and Symposium on Advanced Distributed

Systems (ISSADS) in this LNCS volume. The symposium was held in the city of Guadalajara, Mexico from January 24 to 28, 2005. The organization team was composed of members of CINVESTAV Guadalajara, Rostock University in Germany, the CUCEI and CUCEA campuses of Guadalajara University, and Instituto Tecnol´ogico y de Estudios Superiores de Occidente, ITESO. The symposium is already a we- established annual meeting, at which scientists and people from the industrial field meet and discuss the progress of applications and the theory of distributed systems in a forum during the last week of January. This year, more than 250 people from 3 continents attended the conference. Most of them are scientists, teachers, students and engineers from the local industry. The papers presented in the sessions of the symposium cover not only the subjects of distributed systems from the system level and applications, but also contributions from the area of theory and artificial intelligence concepts. These papers were selected out of more than 100 submissions. There was a selection filter in which each paper was evaluated by at least three members of the International Program Committee, who came from research institutions of good reputation all over the world.