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      Jiannong Cao

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This book constitutes the refereed proceedings of the 6th International Workshop on Advanced Parallel Processing Technologies, APPT 2005, held in Hong Kong, China in September 2005. The 55 revised full papers presented were carefully reviewed and selected from over 220 submissions. All current aspects in parallel and distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications. The papers are organized in topical sections on architecture, algorithm and theory, system and software, grid computing, networking, and applied technologies.

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Keynote Speech   Research Issues in Adapting Computing to Stool] Devices   Mobile Context Aware Systems Linking the Physical and Digital WorldArchitecture   A Data Transformations Based Approach Ior Optimizing Memory and Cache Locality on Distributed Memory Multlproccssors   A   Fetch Policy Maximizing Throughput and Fairness for Two Context SMT Processors   A Loop Transformation Using Two Parallel Region Partitioning Method   Criticality Based Speculation Control for Speculativo Multithreaded Architectures   Design and Implmnentation of Semantic Caching Coherency Control Scheme Toward Distributed Environment   Energy" Efficient United L2 Cache Design with Instruction/Data Filter Scheme   Improving Latency Tolerance of Network Processors Through Simultaneous Multithreading   RIMP: Runtime hnplicit Predication   Static Partitioning vs Dynamic Sharing of i~esources in Simultaneous MultiThreading MicroarchitecturesAlgorithm and Theory

Autonomous Centered Problem Allocation Oriented to Cooperation   Contention-]q'ee Communication Scheduling for Irregular Data Redistribution in Parallelizing Compilers   Experiments on Asynchronous Partial Gauss Seidel Method   Improved Program Dependence Graph and Algorithm for Static Slicing Concurrent Programs   Parallelisation of Sequential Programs by Invasive Composition and Aspect Weaving   Revisiting the Election Problem in AsyncI~onous Distributed Systems   Scheduling Scheme with Fairness and Adaptation in the Joint Allocation of Heterogeneous Resources   Solving the Symmetric Tridiagonal Eigenproblem Using MPI/OpenMP Hybrid ParMlelization……System and SoftwareGrid ComputingNetworkingApplied TechologiesAuthor Index

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