

IX International Workshop on Advanced Computing and Analysis Techniques in Physics Research



ACAT 03

December 1-5, 2003, KEK Tsukuba, Japan

Topics

I. Computing Technology and Environment for Physics Research

Parallel Computing Technologies and Applications
Data Fabric and Data Management
Online Monitoring and Control
Advanced Analysis Environments
Innovations in Software Engineering
Graphic User Interfaces, Common Libraries

II. Innovative Algorithms and Tools for Data Analysis

Neural Networks and Other Pattern Recognition Techniques
Evolutionary and Genetic Algorithms
Statistical Methods for Data Analysis
Detector Simulations
Reconstruction Algorithms

III. Simulations and Computations in Theoretical Physics and Phenomenology

Automatic Computation Systems: from Feynman Diagrams to Events
Multi-loop Calculations and Higher Order Corrections
Multi-dimensional Integration and Event Generators
Computer Algebra Techniques and Applications

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