Record Nr. UNISA996465929503316 High Performance Computing [[electronic resource]]: Second **Titolo** International Symposium, ISHPC'99, Kyoto, Japan, May 26-28, 1999, Proceedings / / edited by Constantine Polychronopoulos, Kazuki Joe, Akira Fukuda, Shinji Tomita Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, 1999 **ISBN** 3-540-48821-9 Edizione [1st ed. 1999.] Descrizione fisica 1 online resource (XIV, 414 p.) Collana Lecture Notes in Computer Science, , 0302-9743; ; 1615 Disciplina 004/.3 Soggetti Software engineering Computer organization Computer science—Mathematics Computers Computer mathematics Software Engineering/Programming and Operating Systems Computer Systems Organization and Communication Networks Mathematics of Computing Theory of Computation Computational Mathematics and Numerical Analysis Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di contenuto Supercomputing ... Looking ahead -- An introduction to DRAMA project -- An introduction to OCEANS project -- An introduction to NANOS project -- An introduction to HPF+ project -- Synchronous communication of molecular and electronic structure information in a distributed computing environment -- Profile-based selection of load value and address predictors -- Instruction-level microprocessor modeling of scientific applications -- Neural network classifiers execution on superscalar microprocessors -- Message Passing Communication in a parallel computer Cenju-4 -- Coping with very

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## Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Symposium on High-Performance Computing, ISHPC'99, held in Kyoto, Japan in May 1999. The 23 revised full papers presented were carefully selected from a total of 61 submissions. Also included are the abstracts of several invited talks and 12 reviewed short papers corresponding to the poster presentations given at the symposium. The papers address many current issues in high-performance computing and communication, regarding hardware and network architectures as well as regarding software and theoretical foundations; also advanced applications are studied in a variety of fields including modeling, visualisation, and computational science.