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Soggetti	Computers Computer organization Software engineering Artificial intelligence Computer-aided engineering Theory of Computation Computer Systems Organization and Communication Networks Software Engineering/Programming and Operating Systems Information Systems and Communication Service Artificial Intelligence Computer-Aided Engineering (CAD, CAE) and Design
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Nota di contenuto	World mathematical year 2.000 and computer sciences -- Dependable parallel computing by randomization (Abstract) -- System dependability -- Technology, networks, and the library of the year 2000 -- Mosaic C: An experimental fine-grain multicomputer -- New frontiers in database system research -- Formal theories and software systems: Fundamental connections between Computer Science and Logic -- Time for concurrency -- Horizons of parallel computation -- Control software for virtual-circuit switches: Call processing -- What is knowledge representation, and where is it going? -- Creating a design

science of Human-Computer Interaction -- Sensing robots --
Fundamentals of bicentric perspective -- Digital HDTV: A technical
challenge -- Autonomous control -- Analog and digital computing --
Stochastic control and large deviations -- Differential-Geometric
methods: A powerful set of new tools for optimal control --
Coordinating vehicles in an automated highway -- Opportunities and
challenges in signal processing and analysis -- Neural computing and
stochastic optimization -- Stabilization of Galerkin methods and
applications to domain decomposition -- An efficient implementation
of the spectral partitioning algorithm on connection machine systems.

Sommario/riassunto

This volume contains the proceedings of the International Conference on Research in Computer Science and Control, held on the occasion of the 25th anniversary of INRIA in December 1992. The objective of this conference was to bring together a large number of the world's leading specialists in information technology who are particularly active in the fields covered by INRIA research programmes, to present the state of the art and a prospective view of future research. The contributions in the volume are organized into the following areas: Parallel processing, databases, networks, and distributed systems; Symbolic computation, programming, and software engineering; Artificial intelligence, cognitive systems, and man-machine interaction; Robotics, image processing, and computer vision; Signal processing, control and manufacturing automation; Scientific computing, numerical software, and computer aided engineering.
