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Soggetti	Computer-aided engineering User interfaces (Computer systems) Application software Computer communication systems Software engineering Operating systems (Computers) Computer-Aided Engineering (CAD, CAE) and Design User Interfaces and Human Computer Interaction Information Systems Applications (incl. Internet) Computer Communication Networks Software Engineering Operating Systems
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Nota di contenuto	CSCW Techniques and Methods -- Vega Information Grid for Collaborative Computing -- Physical Object Icons Buttons Gesture (PIBG): A New Interaction Paradigm with Pen -- A Novel Method of QoS Based Resource Management and Trust Based Task Scheduling -- Learning to Plan the Collaborative Design Process -- Groupware System Design and the Context Concept -- Grid Authorization Management

Oriented to Large-Scale Collaborative Computing -- Research on Network Performance Measurement Based on SNMP -- Concepts, Model and Framework of Cooperative Software Engineering -- An Algorithm for Cooperative Learning of Bayesian Network Structure from Data -- Non-violative User Profiling Approach for Website Design Improvement -- Agents and Multi-agent Systems -- Generative Design in an Agent Based Collaborative Design System -- Similarity Based Agents for Design -- Semantic Integration in Distributed Multidisciplinary Design Optimization Environments -- Formal Dialogue and Its Application to Team Formation in Cooperative Design -- MA_CORBA: A Mobile Agent System Architecture Based on CORBA -- A Multi-agent Based Method for Handling Exceptions in Computer Supported Cooperative Design -- Ontology and Knowledge Management -- CEJ – An Environment for Flexible Definition and Execution of Scientific Publication Processes -- Methodology of Integrated Knowledge Management in Lifecycle of Product Development Process and Its Implementation -- Knowledge-Based Cooperative Design Technology of Networked Manufacturing -- Multi-ontology Based System for Distributed Configuration -- Collaborative Design and Manufacturing, and Enterprise Collaboration -- Online Collaborative Design Within a Web-Enabled Environment -- C-Superman: A Web-Based Synchronous Collaborative CAD/CAM System -- Developing a Multidisciplinary Approach of Concurrent Engineering -- Hardware/Software Co-design Environment for Hierarchical Platform-Based Design -- A Computer Supported Collaborative Dynamic Measurement System -- A Collaborative Management and Training Model for Smart Switching System -- A Web-Based Fuzzy-AHP Method for VE Partner Selection and Evaluation -- A Method of Network Simplification in a 4PL System -- Virtual Reality and Applications -- Using Augmented Reality Technology to Support the Automobile Development -- Real-Time Selective Scene Transfer -- Design and Implementation of a Collaborative Virtual Shopping System -- Digital Virtual Human Based Distance Education System -- Workflows -- Towards Incompletely Specified Process Support in SwinDeW – A Peer-to-Peer Based Workflow System -- A Flexible Workflow Model Supporting Dynamic Selection -- Temporal Logic Based Workflow Service Modeling and Its Application -- Research on Cooperative Workflow Management Systems -- Effective Elements of Integrated Software Development Process Supported Platform -- Other Related Approaches and Applications -- Hierarchical Timed Colored Petri Nets Based Product Development Process Modeling -- An Intelligent Petri Nets Model Based on Competitive Neural Network -- An Automatic Coverage Analysis for SystemC Using UML and Aspect-Oriented Technology -- Optimistic Locking Concurrency Control Scheme for Collaborative Editing System Based on Relative Position -- Research on Content-Based Text Retrieval and Collaborative Filtering in Hybrid Peer-to-Peer Networks -- On the Stochastic Overlay Simulation Network -- Applying Semiotic Analysis to the Design and Modeling of Distributed Multimedia Systems -- A Rapid Inducing Solid Model Towards Web-Based Interactive Design.

Sommario/riassunto

The design of complex artifacts and systems requires the cooperation of multidisciplinary design teams using multiple commercial and non-commercial engineering tools such as CAD tools, modeling, simulation and optimization software, engineering databases, and knowledge-based systems. Individuals or individual groups of multidisciplinary design teams usually work in parallel and separately with various engineering tools, which are located on different sites, often for quite a long time. At any moment, individual members may be working on different versions of a design or viewing the design from various

perspectives, at different levels of detail. In order to meet these requirements, it is necessary to have effective and efficient collaborative design environments. These environments should not only automate individual tasks, in the manner of traditional computer-aided engineering tools, but also enable individual members to share information, collaborate and coordinate their activities within the context of a design project. CSCW (computer-supported cooperative work) in design is concerned with the development of such environments.