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Autore	Nof Shimon Y
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Definitions, Scope, and Significance -- Design with Collaborative Control Theory -- Rationalization -- Optimization and Control -- Tools for e-Work -- e-Work in Product and Service Development -- e-Logistics, e-Production, and e-Supply Networks -- Factory Sensors and

Collaboration in highly distributed organizations of people, robots, and autonomous systems is and must be revolutionized by engineering augmentation. The aim is to augment humans' abilities at work and, through this augmentation, improve organizations' abilities to accomplish their missions. This book establishes the theoretical foundations and design principles of collaborative e-Work, e-Business and e-Service, their models and applications, design and implementation techniques. The fundamental premise is that without effective e-Work and e-Services, the potential of emerging activities, such as e-Commerce, virtual manufacturing, tele-robotic medicine, automated construction, smart energy grid, cyber-supported agriculture, and intelligent transportation cannot be fully materialized. Typically, workers and managers of such value networks are frustrated with complex information systems, originally designed and built to simplify and improve performance. Even if the human-computer interface for such systems is well designed, the information and task overloads can be overwhelming. Effective delivery of expected outcomes may not occur. Challenges and emerging solutions in the context of the recently developed CCT, Collaborative Control Theory, are described, with emphasis on issues of computer-supported and communication-enabled integration, coordination and augmented collaboration. Research results and analyses of engineering design methods and complex systems management techniques are explained and illustrated.
