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Note generali	Includes index.
Nota di contenuto	Developing Embodied Agents for Education Applications with Accurate Synchronization of Gesture and Speech -- Abstraction of Heterogeneous Supplier Models in Hierarchical Resource Allocation -- Shape Recognition through Tactile Contour Tracing - a simulation study -- Real-time tear film classification through cost-based feature selection -- Scalarized and Pareto Knowledge Gradient for Multi-objective Multi-armed Bandits -- Extensibility Based Multiagent Planner with Plan Diversity Metrics -- Concurrent and Distributed Shortest-Path Searches in Multiagent-based Transport Systems -- SAJaS: Enabling JADE-based Simulations -- Strategic Negotiation and Trust in

	Diplomacy -The DipBlue Approach -- Overcoming Limited Onboard Sensing in Swarm -- A Question of Balance: The Benefits of Pattern-Recognition when Solving Problems in a Complex Domain.
Sommario/riassunto	These transactions publish research in computer-based methods of computational collective intelligence (CCI) and their applications in a wide range of fields such as the semantic Web, social networks, and multi-agent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies, such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., aims to support human and other collective intelligence and to create new forms of CCI in natural and/or artificial systems. This twentieth issue contains 11 carefully selected and revised contributions.