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   Nota di contenuto   Invited Talk -- Semantic Overlay Networks for P2P Systems -- Peer-to-
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                        Distributed Hash Queues: Architecture and Design -- DiST: A Scalable,
                        Efficient P2P Lookup Protocol -- A Policy for Electing Super-Nodes in
                        Unstructured P2P Networks -- Emergent Communities and Social
                        Behaviours -- ACP2P: Agent Community Based Peer-to-Peer
                        Information Retrieval -- Emergent Structures of Social Exchange in
                        Socio-cognitive Grids -- Permission and Authorization in Policies for
                        Virtual Communities of Agents -- On Exploiting Agent Technology in
                        the Design of Peer-to-Peer Applications -- Semantic Integration --
                        Peer-to-Peer Semantic Integration of XML and RDF Data Sources -- The
                        SEWASIE Multi-agent System -- Mobile P2P Systems -- Service
                        Discovery on Dynamic Peer-to-Peer Networks Using Mobile Agents --
                        An Agent Module for a System on Mobile Devices -- Multi-agent
                        System Technology for P2P Applications on Small Portable Devices --

Adaptive Systems -- Coordinator Election Using the Object Model in P2P Networks -- The Dynamics of Peer-to-Peer Tasks: An Agent-Based Perspective -- Peer-to-Peer Computing in Distributed Hash Table Models Using a Consistent Hashing Extension for Access-Intensive Keys -- A Practical Peer-Performance-Aware DHT -- Peer-to-Peer Data Lookup for Multi-agent Systems -- Agent-Based Resource Discovery -- Intelligent Agent Enabled Genetic Ant Algorithm for P2P Resource Discovery -- Photo Agent: An Agent-Based P2P Sharing System -- Trust and Reputation -- How Social Structure Improves Distributed Reputation Systems – Three Hypotheses -- Opinion Filtered Recommendation Trust Model in Peer-to-Peer Networks.

Sommario/riassunto	Peer-to-peer (P2P) computing is attracting enormous media attention, spurred by the popularity of file sharing systems such as Napster, Gnutella, and Morpheus. The peers are autonomous, or as some call them, first-class citizens. P2P networks are emerging as a new distributed computing paradigm for their potential to harness the computing power of the hosts composing the network and make their under-utilized resources available to others. Although researchers working on distributed computing, multiagent systems, databases and networks have been using similar concepts for a long time, it is only recently that papers motivated by the current P2P paradigm have started appearing in high-quality conferences and workshops. Research in agent systems in particular appears to be most relevant because, since their inception, multiagent systems have always been thought of as networks of peers. The multiagent paradigm can thus be superimposed on the P2P architecture, where agents embody the description of the task environments, the decision-support capabilities, the collective behavior, and the interaction protocols of each peer. The emphasis in this context on decentralization, user autonomy, ease and speed of growth that gives P2P its advantages also leads to significant potential problems. Most prominent among these problems are coordination, the ability of an agent to make decisions on its own actions in the context of activities of other agents, and scalability, the value of the P2P systems lies in how well they scale along several dimensions, including complexity, heterogeneity of peers, robustness, traffic redistribution, and so on. This volume presents the fully revised papers presented at the Third International Workshop on Agents and Peer-to-Peer Computing, AP2PC 2004, held in New York City on July 19, 2004 in the context of the Third International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2004). The volume is organized in topical sections on P2P networks and search performance, emergent communities and social behaviours, semantic integration, mobile P2P systems, adaptive systems, agent-based resource discovery, as well as trust and reputation.