

Agent-based Virtual Organization

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1 Abstract

Recently we observe a surge in new technologies that are expected to change the way we process information and support workers in an organization. Two of them that are very often mentioned as “disruptive technologies” are: ontologies and software agents. In our recent project we attempt at conceptualizing the way in which these two technologies can be combined and utilized in information management within an organization. In the proposed approach a virtual organization is conceptualized in terms of roles to be played by agents, organization structure and information flow are represented in terms of agent-agent and agent-human interactions, while all resources (e.g. workers, brake pads, books, software artifacts, etc.) are ontologically demarcated. Finally, all information processing is semantically-driven. In the presentation current state of our work will be summarized.