Proposal for Special Session to TAAI 2007

Intelligent Agent

The intersection between Computational Intelligence and Agent technology opens new significant scenarios in many fields where the representation and management of complex systems play a fundamental role. In the formulation of Agent-based systems, the role of uncertainty is crucial for an efficient and coherent resolution of complex problems. Agents overcome classical programs thanks to their inner capabilities to be autonomous and to adapt their behavior with the changing of the environment where agents live and interact. This means that inevitably they meet uncertainty during their work, or in many cases, for the high complexity of the problem, the information they handle is (or needs to be) approximate. Only in recent years there has been an increasing awareness that Computational Intelligence handling of uncertainty in agents is equally important as other features of agent paradigm. The objective of the proposed special issue is to highlight an ongoing research on computational intelligence agents and their applications on various domains.

Topics of interest (not limited to)

1. Ontology and Ontological Agents
2. Semantic Web Agents
3. Agents for Software Engineering
4. Healthcare Agents
5. Agents for Knowledge Discovery and Knowledge Management
6. Agents in a Neuro Fuzzy Approach
7. Embedded Agents
8. Environment-aware Agents
9. Agents for E-Commerce
10. Agents for Intelligent Manufacturing Systems

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