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Multi-agent Semantic Web Systems: Agent Communication …
Multi-agent Semantic Web Systems: Agent Com-munication Overview Jacques Fleuriot Outline Agents Overview Agent Architectures Middle Agents Network Architectures Agent Com-munication Interaction Models Summary What are Agents? 'Intelligent' characteristics of agents: autonomy reasoning ability learning ability mobility sociability
eta-model for the analysis and design of Organizations in …
eta-model for the analysis and design of Organizations in multi-agent systems Jacques FERBER Olivier GUTKNECHT Laboratoire d'Informatique, Robotique et Micro-electronique de Montpellier Universite Montpellier 11, France ferber@lirmmfr gutkneco@lirmmfr Abstract This paperpresents a generic meta-model of multi-agent
Multi-agent Semantic Web Systems: OWL-S
Multi-agent Semantic Web Systems: OWL-S Jacques Fleuriot Outline Overview OWL-S Service Ontology Service Model Profile & Grounding Summary Recap Web services can be thought of as RPCs Messages from a client will specify the operation to be called, and will supply arguments for the operation The services responds (typically) with the result
LNCS 2935 - From Agents to Organizations: An …
of Multi-agent Systems Jacques Ferber, Olivier Gutknecht, and Fabien Michel LIRMM – University of Montpellier II, 161 rue Ada, 34592 Cedex 5, Montpellier, France {ferber,olg,fmichel}@lirmmfr Abstract While multi-agent systems seem to provide a good basis for building complex software systems, this paper points out some of the drawbacks of clas-
Virtual Reality and Multi-Agent Systems for Manufacturing …

Virtual Reality and Multi-Agent Systems for Manufacturing System Interactive Prototyping Pierre Chevaillier, Fabrice Harrouet, Patrick Reignier, Jacques Tisseau Laboratoire d'Informatique Industrielle Ecole Nationale d'Ingénieurs de Brest Technopole Brest-Iroise, CP 15ˆ 29608 Brest Cedex, France tel: +33 (0)298056631 fax: +33 (0)298

Les systèmes multi-agents : un aperçu général

Jacques Ferber LIRMM, Université Montpellier II This paper gives a general overview of multi-agent systems After a brief multi-agent systemes, distributed artificial intelligence,

Plan-Based Replication for Fault-Tolerant Multi-Agent Systems

Plan-Based Replication for Fault-Tolerant Multi-Agent Systems Alessandro de Luna Almeida1, Samir Aknine, Jean-Pierre Briot, Jacques Malenfant Université de Paris 6 Laboratoire d'Informatique Paris, 75015 FR {AlessandroLuna-Almeida, SamirAknine, Jean-PierreBriot, **Jacques**Malenfant}@lip6fr

MODEL AND SIMULATION OF MULTI-LEVEL EMERGENCE

Jacques Ferber LIRMM phenomenon, which is based on a reactive multi-agent system Each agent is defined as a minimal living-like complex systems Key-words: Emergence, Multi-Agent Systems

PRISM Vol. 8, No. 3

potential of multi-agent, intelligent Cyber Physical Systems3 The National Science Foundation provides a base definition for CPS that is widely accepted today: A Cyber Physical System is a mechanism that is controlled or monitored by comput - er-based algorithms, and tightly integrated with the Internet and its users CPS systems

AIR FORCE INSTITUTE OF TECHNOLOGY

David Jacques, PhD davidjacques@afitedu System and System-of-System Level Design for Mission Effectiveness; Autonomous and/ or Cooperative Multi-agent Systems; Small UAS Development and Flight Test John Colombi, PhD johncolombi@afitedu Model-based Systems Engineering; Systems

1 Cooperative Robot Control and Synchronization of ...

on the multi-agent coordination and control problem The proposed decentralized strategy with local couplings can be systematically applied to Lagrangian systems, and is further extended to time-delayed communications, adaptive synchronization, partial-joint coupling, and concurrent synchronization of heterogeneous networks I INTRODUCTION

Cooperative Robot Control and Concurrent Synchronization ...

The theory is generalized and extended to multi-robot systems with non-identical dynamics, linear coupling control, partial state coupling, uni-directional coupling, and adaptive control A Comparison with Related Work The consensus problems on graph [28] and the coordination of multi-agent systems [15], [23], [29], [30] are closely

Distributed coordination of fractional-order multi-agent ...

multi-agent systems Jing Bai To cite this version: Jing Bai Distributed coordination of fractionnal-order multi-agent systems Automatic Ecole Cen-trale de Lille, 2015 English ⟨NNT: 2015ECLI0019⟩ ⟨tel-01277143⟩

An Agent Framework for Legal Validation of E-Transactions

methodology based on a high level abstraction of what a multi-agent system is This methodology and some of its consequences are enumerated in the following sections 2 Methodology of Multiagent Systems 1 Agent-Oriented Abstraction: This recently proposed methodology is motivated by a fully

abstract view of what an agent system is [2]

A Gradient Optimization Approach to Adaptive Multi-Robot …

sions about multi-agent systems and the mathematics that underpins their control Furthermore, I thank my friends and colleagues in the Distributed Robotics Lab who have filled my days with colorful camaraderie For financial support, I am very grateful to …

Multi-Agent Simulation as a Tool for Modeling Societies …

Multi-Agent Simulation as a Tool for Modeling Societies: Application to Social Differentiation in Ant Colonies Alexis Drogoul, Jacques Ferber LAFORIA, Boîte 169, Université Paris VI, 75252 PARIS CEDEX O5 FRANCE drogoul@laforiaibpfr, ferber@laforiaibpfr Abstract This paper presents the notion of multi-agent simulation that is

Unifying Geometric, Probabilistic, and Potential Field …

Jean-Jacques Slotine Nonlinear Systems Laboratory, MIT 77 Massachusetts Ave Cambridge, MA 02139, USA jjs@mitedu August 8, 2010 body of work has looked at multi-agent deployment as a motion planning problem A survey of this work can be found in [6], and some significant contributions can be found in, for example, [5,18]

Security In Information Systems

information systems in organisations world-wide, which handle large quantities of data, managed by huge databases and datawarehouses In addition, information systems quite frequently manage information that can be considered sensitive, since it is related to certain intimate or personal aspects of persons