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Andrea Omicini
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All publications without IRIS ID in the APICe Space (1980—2018)

Below, all publications without IRIS ID in the APICe Space between 1980 and 2018, ordered by year of publication.

2018 (13)

- Space-Time Universality of Field Calculus
- A Model and Platform for Building Agent-Based Pervasive Mixed Reality Systems
- Combining Trust and Aggregate Computing
- Towards attack-resistant Aggregate Computing using trust mechanisms
- Injecting (Micro)Intelligence in the IoT: Logic-based Approaches for (M)MAS
- Optimal single-path information propagation in gradient-based algorithms
- Hypermedia to connect them all autonomous hypermedia agents and sociotechnical interactions
- From Field-Based Coordination to Aggregate Computing
- Opportunistic cyberphysical services: A novel paradigm for the future Internet of Things
- Developing Agent-Based Pervasive Mixed Reality Systems: The MiRAgE Framework
- Modelling and Simulation of Opportunistic IoT Services with Aggregate Computing
- Engineering Resilient Collective Adaptive Systems by Self-Stabilisation
- Programming Actor-Based Collective Adaptive Systems

2017 (23)

- Mashing Up the Physical and Augmented Reality: The Web of Augmented Things Idea
- Towards Argumentation-based Recommendations for Personalised Patient Empowerment
- Spiking Neural Networks as Timed Automata
- Self-Adaptation to Device Distribution in the Internet of Things
- An Argumentation-based Perspective over the Social IoT
- Compositional Blocks for Optimal Self-Healing Gradients
- Optimal-Self-Healing Distributed Gradient Structures Through Bounded Information Speed
- Practical Aggregate Programming with Protelis
- Coordinating Distributed Speaking Objects
- A Personal Medical Digital Assistant Agent for Supporting Human Operators in Emergency Scenarios
- Modeling Opportunistic IoT Services in Open IoT Ecosystems
- A Personal Medical Digital Assistant Agent for Supporting Human Operators in Emergency Scenarios
- Self-Stabilising Target Counting in Wireless Sensor Networks Using Euler Integration
- Context Reasoning and Prediction in Smart Environments: the Home Manager case
- The impact of self-loops in random boolean network dynamics
- Towards a Mobile Augmented Reality System for Emergency Management: The Case of SAFE
- Formal Validation of Neural Networks as Timed Automata
- Preface
- Aggregate plans for multiagent systems
- Modeling Opportunistic IoT Services in Open IoT Ecosystems
• Towards the Web of Augmented Things
• Towards a Foundational API for Resilient Distributed Systems Design

2016 (19)

• Simulating Large-scale Aggregate MASs with Alchemist and Scala
• A type-sound calculus of computational fields
• Cross-organism learning method to discover new gene functionalities
• Modeling intercellular communication as a survival strategy of cancer cells: An in-silico approach on a flexible bioinformatics framework
• Building Smart Spaces on the Home Manager platform
• Towards Aggregate Programming in Scala
• On Execution Platforms for Large-scale Aggregate Computing
• Self-adaptation to Device Distribution Changes in Situated Computing Systems
• Run-Time Management of Computation Domains in Field Calculus
• Resiliency with Aggregate Computing: State of the Art and Roadmap
• An Extension of AgentSpeak(L) and Jason Tailored to Programming and Software Development
• Improving Gossip Dynamics Through Overlapping Replicates
• A Comparison of Term Weighting Schemes for Text Classification and Sentiment Analysis with a Supervised Variant of tf.idf
• Combining Self-Organisation and Autonomic Computing in CASs with Aggregate-MAPE
• Introducing the Oscillations Based Paradigm. The Simulation of Agents and Social Systems
• Aggregate Programming: From Foundations to Applications
• Towards an Integrated Platform for Adaptive Socio-Technical Systems for Smart Spaces
• Coordination of Complex Sociotechnical Systems: Self-organisation of Knowledge in MoK
• Special Section on Coordination in Large-Scale Socio-Technical Systems

2015 (6)

• GOTA: GO term annotation of biomedical literature
• Smart Augmented Fields for Emergency Operations
• Iterative Refining of Category Profiles for Nearest Centroid Cross-Domain Text Classification
• Type-based Self-stabilisation for Computational Fields
• A coordination model of pervasive service ecosystems
• Random Perturbations of Term Weighted Gene Ontology Annotations for Discovering Gene Unknown Functionalities

2014 (2)

• Handbook on Agent-Oriented Design Processes
• Extending a Smart Home Multi-Agent System with Role-Based Access Control

2013 (4)

• Chemical-oriented Simulation of Computational Systems with ALCHEMIST
• Operational Semantics of Proto
• A calculus of computation fields
• Social Coordination: Principles, Artefacts and Theories (SOCIAL.PATH)
2012  (2)

- Bottom-Up Argumentation
- A Method Fragments Approach to Methodologies for Engineering Self-Organising Systems

2011  (4)

- Core Operational Semantics of Proto
- Exploiting the Eclipse Ecosystem for Agent-Oriented Programming
- A Calculus of Agents and Artifacts
- Model-driven communications and collaborative software development

2010  (8)

- Risk Analysis and Deployment Security Issues in a Multi-Agent System
- A Framework for Utilizing Qualitative Spatial Relations between Networked Embedded Systems
- Using Domain Specific Languages for platform-based software development: The case of Android
- Logic-based decision support for strategic environmental assessment
- Embodied Organizations: A Unifying Perspective in Programming Agents, Organizations and Environments
- Coordination in Open and Dynamic Environments with TuCSoN Semantic Tuple Centres
- Exploring the Boundaries: When Method Fragmentation is not Convenient
- Using Event-Driven Lightweight DSC-based Agents for MAS Modelling

2009  (10)

- Interactive Graphical Maps for Infocenter via Model to Model Transformation
- Using Jason, MOSE, and CArTAgO to develop a team of cowboys
- Introducing Relevance Awareness in BDI Agents
- A MAS Metamodel-Driven Approach to Process Fragments Selection
- Special Track on: Agent-Oriented Software Engineering Methodologies and Systems
- FEATHERWEIGHT AGENT LANGUAGE - A Core Calculus for Agents and Artifacts
- A Biochemical Metaphor for Developing Eternally Adaptive Service Ecosystems
- Using and Extending the SPEM Specifications to Represent Agent Oriented Methodologies
- Designing a development environment for logic and multi-paradigm programming
- Biochemical Tuple Spaces for Self-Organising Coordination

2008  (11)

- Methodologies for Designing Agent Societies
- The Architecture and Design of a Malleable Object-Oriented Prolog Engine
- Preface
- PASSIM: a simulation-based process for the development of multi-agent systems
- Methodologies and Infrastructures for Agent Society Simulation: Mapping PASSI and RoleX
- Introducing Join-Computing
- Situating A&A ReSpecT for Pervasive Environment Applications
- An experimental environment for teaching Java Security
- The A&A Programming Model and Technology for Developing Agent Environments in MAS
- Smart Environments as Agent Workspaces
- Agent Roles: from Methodologies to Infrastructures
2007 (9)

- Programming Multi-Agent Systems in AgentSpeak using Jason
- Special Issue on the AgentLink III Technical Forums
- Practical Extensions in Agent Programming Languages
- Method fragments for agent design methodologies: from standardisation to research
- tuProlog 2.0: One Step Beyond
- simpA-WS: a Simple Agent-Oriented Programming Model and Technology for Developing SOA and Web Services
- Engineering a BPEL Orchestration Engine as a Multi-agent System
- What is “paradigm”?
- Cognitive Stigmergy: Towards a Framework Based on Agents and Artifacts

2006 (6)

- Interactive Computation: The New Paradigm
- OWL-S for Describing Artifacts
- WOA 2006 – Dagli Oggetti agli Agenti
- Cognitive Stigmergy: A Framework Based on Agents and Artifacts
- Designing a BPEL Orchestration Engine based on ReSpecT Tuple Centres
- Special Issue “Hot Topics in European Agent Research II”

2005 (12)

- An Agent-Oriented Conceptual Framework for Systems Biology
- Environments in Multiagent Systems
- Message from the Program Chairs
- Preface
- RBAC for Organisation and Security in an Agent Coordination Infrastructure
- Self-Organization in Multi-Agent Systems
- Special Issue “Process Algebras and Multi-Agent Systems”
- Coordination Artifacts: A Unifying Abstraction for Engineering Environment-Mediated Coordination in MAS
- Special Issue “Hot Topics in European Agent Research I”
- Special Issue “Revised Reports from Selected Technical Forum Groups at the 1st & 2nd AgentLink III Technical Forums”
- Effective Tool Use in a Habile Agent
- Environment-Based Coordination Through Coordination Artifacts

2004 (6)

- Engineering Societies in the Agents World IV
- Relevance of Winning Coalitions in Indirect Control of Corporations
- Using Swarm Intelligence in Linda Systems
- Preface
- Integrating and Orchestrating Services upon an Agent Coordination Infrastructure
- Special Issue “Coordination and Collaboration Technologies”
2003 (12)

- First International Workshop on Theory and Practice of Open Computational Systems
- Cooperative Information Agents VII
- Activity Theory as a Framework for MAS Coordination
- Coordination as a Service: Ontological and Formal Foundation
- Formal Specification and Enactment of Security Policies through Agent Coordination Contexts
- Software Engineering for Large-Scale Multi-Agent Systems. Research Issues and Practical Applications
- Preface
- Objective versus Subjective Coordination in the Engineering of Agent Systems
- Task-Oriented Engineering of Coordinated Software Systems
- Editorial Message: Special Track on Coordination models, Languages and Applications
- Preface
- Supporting Coordination in Open Computational Systems with TuCSoN

2002 (14)

- Specifying Agent Observable Behaviour
- Engineering Agent Societies: A Case Study in Smart Environments
- Objective vs. Subjective Coordination in Agent-based Systems: A Case Study
- Coordination Knowledge Engineering
- Towards a Notion of Agent Coordination Context
- A Survey of Coordination Middleware for XML-centric Applications
- Tuple-based Models in the Observation Framework
- An Observation Approach to Semantics of Agents Communication Languages
- Coordination Tools for MAS Development and Deployment
- Editorial Message: Special Track on Coordination Models, Languages and Applications
- Modelling Agents as Observable Sources
- Software Engineering for Large-scale Multi-Agent Systems: SELMAS’2002
- Digital Pheromone Mechanisms for Coordination of Unmanned Vehicles
- Virtual Enterprises and Workflow Management as Agent Coordination Issues

2001 (18)

- Formal ReSpeCT
- On Observation as a Coordination Pattern: An Ontology and a Formal Framework
- From Tuple Spaces to Tuple Centres
- Preface
- Editorial: Why Coordination Models and Languages in AI?
- LatCe: A Tuple-based Coordination Infrastructure for Prolog and Java Agents
- Agent-Oriented Software Engineering for Internet Applications
- Preface
- tuProlog: A Light-weight Prolog for Internet Applications and Infrastructures
- Agent Coordination Infrastructures for Virtual Enterprises and Workflow Management
- Coordination Models, Languages and Applications: Track Chair Messages
- An Agent-based Approach for Building Complex Software Systems
- An Algorithm for Winning Coalitions in Indirect Control of Corporations
- SODA: Societies and Infrastructures in the Analysis and Design of Agent-based Systems
- Coordination as a Paradigm for Systems Integration
- Questions and Answers: Reasoning and Querying in Description Logic
- The TuCSoN Coordination Infrastructure for Virtual Enterprises
- Engineering Societies in the Agents World II
2000 (9)

- WOA 2000 — Dagli oggetti agli agenti: tendenze evolutive dei sistemi software
- Multiagent System Engineering: The Coordination Viewpoint
- Preface
- Coordination and Access Control in Open Distributed Agent Systems: The TuCSoN Approach
- A Coordination Infrastructure for Agent-based Internet Applications
- Special Track on Coordination Models, Languages and Applications
- The LuCe Coordination Technology for MAS Design and Development on the Internet
- SODA: Societies and Infrastructures in the Analysis and Design of Agent-based Systems
- Ruling Agent Motion in Structured Environments

1999 (10)

- Coordination for Internet Application Development
- Designing Multi-Agent Systems around an Extensible Communication Abstraction
- Multi-Agent Systems on the Internet: Extending the Scope of Coordination towards Security and Topology
- Tuple Centres for the Coordination of Internet Agents
- Coordination in Context: Authentication, Authorisation and Topology in Mobile Agent Applications
- Building Mobile Agent Applications in HiMAT
- An Architecture for Tuple-based Coordination of Multi-Agent Systems
- On the Semantics of Tuple-based Coordination Models
- Modelling Network Topology and Mobile Agent Interaction: an Integrated Framework
- Coordination Technologies for Internet Agents

1998 (3)

- Co-ordination of Mobile Information Agents in TuCSoN
- On the Expressive Power of a Language for Programming Coordination Media
- On the Expressive Power of KLAIM-based Calculi

1997 (1)

- Programmable Coordination Media

1996 (2)

- An Extensible Framework for the Development of Coordinated Applications
- Logic Tuple Spaces for the Coordination of Heterogeneous Agents

1995 (2)

- Robot Control Systems as Contextual Logic Programs
- Agent Coordination and Control through Logic Theories
1994 (4)

- Object-Oriented Computations in Logic Programming
- Modularity in Logic Programming
- The Interdisciplinary Study of Coordination
- Moving Prolog Toward Objects

1993 (2)

- Techniques for Implementing Contexts in Logic Programming
- Objects with State in Contextual Logic Programming

1992 (2)

- A Calculus of Mobile Processes, II
- A Calculus of Mobile Processes, I

1987 (1)

- Linear logic

1985 (2)

- Algebra of communicating processes with abstraction
- Meta-level Programming and Knowledge Representation

1980 (1)

- Autopoiesis and Cognition: The Realization of the Living

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