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Nota di contenuto	Regular Papers -- An Interruptible Task Allocation Model : Application to a Honey Bee Colony Simulation -- RT-BDI: A Real-Time BDI Model -- Routing Model Evaluator -- The DigForSim Agent Based Simulator of People Movements in Crime Scenes -- Personal Data Privacy Semantics in Multi-Agent Systems Interactions -- Towards Real-time Crowd Simulation Under Uncertainty Using an Agent-Based Model and an Unscented Kalman Filter -- The JaCa-Android Framework for Programming BDI-based Personal Agents on Mobile Devices -- Assisted Parameter and Behavior Calibration in Agent-based Models with Distributed Optimization -- Fast and Efficient Partner Selection in

Large Agents' Communities: When Categories Overcome Direct Experience -- Multi-Agent Modelling and Simulation of Hospital Acquired Infection Propagation Dynamics by Contact Transmission in Hospital Wards -- Unsupervised Sleep Stages Classification Based On Physiological Signals -- Recommending Learning Videos for MOOCs and Flipped Classrooms -- Improving Sustainable Mobility with a Variable Incentive Model for Bike-Sharing Systems Based on Agent-based Social Simulation -- Decentralized Constraint Optimization in Composite Observation Task Allocation to Mobile Sensor Agents -- Comparing the Performance of Message Delivery Methods for Mobile Agents -- Application of Agent-based Modelling to Simulate Ribosome Translation -- Intent Recognition from Speech and Plan Recognition -- Planner-Guided Robot Swarms -- A MAS-based Approach for POI Group Recommendation in LBSN -- Agent Programmability Enhancement for Rambling over a Scientific Dataset -- Scalable Heterogeneous Multiagent Learning from Demonstration -- Multimodal Joke Generation and Paralinguistic Personalization for a Socially-Aware Robot -- A Framework for Verifying Autonomous Robotic Agents Against Environment Assumptions -- Impact of Trust and Reputation Based Brokerage on the CloudAnchor Platform -- Formal Verification of Autonomous UAV Behavior for Inspection Tasks Using the Knowledge Base System IDP -- Pattern-Based Goal-Oriented Development of Fault-Tolerant MAS in Event-B -- A Study on Automated Receptionists in a Real-world Scenario -- Navigation of Autonomous Swarm of Drones using Translational Coordinates -- Multi-agent Service Area Adaptation for Ride-Sharing Using Deep Reinforcement Learning -- Demo Papers -- MAXIM-GPRT: A Simulator of Local Schedulers, Negotiations, and Communication for Multi-Agent Systems in General-Purpose and Real-Time Scenarios -- Assisting Users on the Privacy Decision-Making Process in an OSN for Educational Purposes -- A Demonstration of the Routing Model Evaluator -- JADE/JaCaMo+2COMM: Programming Agent Interactions -- Agent-based Mixed Reality Environments in Healthcare: the Smart Shock Room Project -- Demo Paper: Monitoring and Evaluation of Ethical Behavior in Dialog Systems -- A Multi-Agent Simulator for Infection Spread in a Healthcare Environment -- SafeCity: A Platform for Safer and Smarter Cities -- AGADE Traffic 2.0 - A Knowledge-based Approach for Multi-agent Traffic Simulations -- PoVaBiA: a Multi-agent Decision-making Support Tool for Organic Waste Management -- Dedale : Demonstrating a Realistic Testbed for Decentralized Multi-agents Problems -- Agent-based Crowd Discussion Support System and its Societal Experiments -- Disaster Response Simulation -- Understandable Teams of Pepper Robots -- A Practical Demonstration of a Variable Incentive Model for Bike-sharing Systems Based on Agent-based Social Simulation -- Implementation of a Holonic Multi-agent System in Mixed or Augmented Reality for Large Scale Interactions -- A Multi-agent Evaluation of Traffic Light Models.

| Sommario/riassunto | This book constitutes the proceedings of the 18th International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS 2020, held in L'Aquila, Italy, in October 2020. The 29 regular and 17 demo papers presented in this volume were carefully reviewed and selected from 64 submissions. They deal with the application and validation of agent-based models, methods, and technologies in a number of key applications areas, including: advanced models and learning, agent-based programming, decision-making, educa-tion and social interactions, formal and theoretic models, health and safety, mobility and the city, swarms and task allocation. |