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Nota di contenuto	PAAMS MAIN TRACK -- Distributed Optimization of Charging Station Selection of Electric Vehicles -- A Deep Reinforcement Learning Approach to Battery Management in Dairy Farming via Proximal Policy Optimization -- Reinforcement Learning Enabled Peer to Peer Energy Trading for Dairy Farms -- Benchmarking Large Language Models for Multi Agent Systems A Comparative Analysis of AutoGen CrewAI and TaskWeaver -- Multi Agent Opinion Pooling by Voting for Bins Simulations and Characterization -- Neural Cellular Automaton for Decentralized Inference in Distributed Manipulator System -- Synthetic data generation for machine learning models with cognitive agent simulations -- A Digital Twin approach to Building's Dossier for Seismic

Prevention -- MineLlama Llama with Retrieval Augmented Generation as A Decision Maker in Minecraft -- Learning Automata Strategies for Prolonging Lifetime of Wireless Sensor Networks -- Options to Speed up Search in Lifelong Multi Agent Pathfinding -- Cooperative Task Execution in Multi Agent Systems -- Federated Neural Machine Translation Using Multi Agent Reinforcement Learning -- A Decentralized Agent based Model for Crisis Events Using Embedded Systems -- Human and BDI Agent Interaction via KQML messages over IMAP and SMTP -- Models of Intelligent Tutoring Systems Based on Autonomous Agents for Virtual Learning Environments a Systematic Literature Review -- Dynamic estimation of customer movement by agent based simulation with particle filter -- Retrieval Augmented Generation Powered by a Multi Agent System to Assisted the Operation of Industries -- EGAR Environment Generator for Agent based Research -- Collaborating Digital Twins for Health Coaching -- Overcoming Computational Complexity A Scalable Agent Based Model of Traffic Activity using FLAME GPU -- Measuring Fairness in AI Explanations with LEADR Local Explanation Amplification Disparity Ratio -- Adaptive Learning of Centralized and Decentralized Rewards in Multi agent Imitation Learning -- Integrating Supervised and Reinforcement Learning for Heterogeneous Traffic Simulation -- Dynamic modification of agent behaviours without disrupting a running system -- A Machine Learning Based Trading Strategy Integrating Technical Analysis and Multi Agent Simulation -- PAAMS DEMONSTRATIONS -- AAMA Sim A Gazebo and ROS2 based Simulation Tool for Agent based Modelling of Cyber-physical Systems -- Using an Agent Based Cellular Automaton for Emergency Evacuation Simulation -- A pet robot prototype for animal assisted therapy -- Demo of the Agri RO5 architecture for Agrirobot Fleet Simulation -- Implementation of Real Time Local Search Method for Distributed Constraint Optimization with Message Loss in PubSub Communication -- Developing Safe Autonomous Logistic Systems with vGOAL.

Sommario/riassunto

This book constitutes the refereed proceedings of the 22nd International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS 2024, held in Salamanca, Spain, during June 26-28, 2024. The 26 full papers and 6 short papers included in this book were carefully reviewed and selected from 64 submissions. The PAAMS 2024 proceedings focus on the development and deployment of agents and multi-agent systems and their real-world applications.