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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Invited Talk -- Sniffbots to the Rescue - Fog Services for a Gas-Sniffing Immersive Robot Collective -- 1 Introduction -- 2 Sniffing Immersive Robot Collectives -- 2.1 The Robot Network -- 2.2 The Self-organizing, Sniffing Wireless Sensor Network -- 2.3 The Positioning Network -- 2.4 The Immersion Network -- 2.5 Coordination of the Sniffbot IRC via

Dashboard -- 3 Service Architecture of a Sniffing Immersive Robot Collective -- 3.1 The Big Nose: Sniffing Services of Wireless Sensor Network -- 3.2 The Nano-Nose: Sensing with Nano-Sensors -- 3.3 The 3-D Nose: The Environment Model Service -- 3.4 The Mobile Human Avatar: Services for Immersive Control -- 4 Experiments with the IRC Fog Services -- 4.1 Sniffing with a Big Nose -- 4.2 Sensing with a Drone -- 4.3 Coupling Autonavigation and Last-Mile Immersion -- 5 Comparison to Related Work -- 6 Conclusion -- References -- Support for Cloud Applications -- Dynamic Threshold Setting for VM Migration -- 1 Introduction -- 2 Related Work -- 3 Proposed Reinforcement Learning Management Algorithm -- 3.1 State -- 3.2 Actions -- 3.3 Reward -- 4 Experimental Setup and Evaluation -- 4.1 Experiments -- 4.2 SLA Violations -- 4.3 Energy Consumption -- 4.4 Learning Threshold Assessment -- 5 Conclusion and Future Works -- References -- Secure Partitioning of Composite Cloud Applications -- 1 Introduction -- 2 Background and Motivating Example -- 2.1 Background -- 2.2 Motivating Example -- 3 Methodology and Prototype -- 3.1 Modelling Applications and Labelling -- 3.2 Eligible Partitioning -- 3.3 Labelling Suggestions -- 4 Motivating Example Revisited -- 4.1 Finding the Minimal Partitioning -- 4.2 Relaxing the Labelling -- 5 Related Work -- 6 Concluding Remarks -- References -- A Decentralized Service Control Framework for Decentralized Applications in Cloud Environments.
1 Introduction -- 2 Decentralized Service Control Framework -- 2.1 Architecture Design -- 2.2 Decentralized Control Consensus -- 3 Experiments -- 4 Conclusion -- References -- Service Design and Development -- A Systematic Comparison of IoT Middleware -- 1 Introduction -- 2 Background -- 2.1 IoT Characteristics -- 2.2 IoT Middleware Requirements -- 3 Related Work -- 4 Methodology -- 4.1 Middleware Selection Process (Preprocessing) -- 4.2 Feature Quantification Process -- 4.3 Evaluation Process -- 5 Application of the Approach -- 5.1 Middleware Selection Process (Preprocessing) -- 5.2 Feature Quantification Process -- 5.3 Evaluation of Middleware Parts -- 6 Conclusion -- References -- Pattern-Based Resolution of Integration Mismatches in Enterprise Applications -- 1 Introduction -- 2 Motivating Scenario -- 3 Modelling Integration Architectures -- 4 Resolving Mismatches in Integration Architectures -- 4.1 Resolvable Mismatches -- 4.2 Resolving Mismatches -- 5 Proof-of-Concept Implementation -- 6 Motivating Example Retaken -- 7 Related Work -- 8 Conclusions -- References -- Towards a Quality Model for Cloud-native Applications -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 4 A Quality Model for Cloud-Native Applications -- 5 Discussion and Future Work -- 6 Conclusion -- References -- Serverless -- Upilio: Leveraging the Serverless Paradigm for Building a Versatile IoT Application -- 1 Introduction -- 2 Background and Related Work -- 3 Upilio: Design and Implementation -- 3.1 Data Representation and Real-Time Collection -- 3.2 Data Ingress APIs -- 3.3 Serverless Frontend -- 3.4 Serverless Analytics -- 4 Experience and Experimental Evaluation -- 4.1 General Observations -- 4.2 Experimental Results -- 5 Conclusions -- References -- MAFF: Self-adaptive Memory Optimization for Serverless Functions -- 1 Introduction -- 2 Methodology.
2.1 Cost Optimization -- 2.2 Balanced Optimization -- 3 MAFF Framework -- 3.1 MAFF Components -- 4 Evaluation Settings -- 4.1 Benchmark Functions -- 4.2 Evaluation Scenarios -- 5 Results -- 5.1 Q1. Optimal Configuration Finding Efficiency -- 5.2 Q2. Optimal Configuration Finding Accuracy -- 5.3 Q3. Active vs Passive Approach -- 6 Comparison to Analogs -- 7 Related Work -- 8 Conclusion --