

1. Record Nr.	UNISA996472070303316
Titolo	Service-oriented and cloud computing : 9th IFIP WG 6.12 European Conference, ESOC 2022, Wittenberg, Germany, March 22-24, 2022, proceedings // edited by Fabrizio Montesi, George Angelos Papadopoulos, Wolf Zimmermann
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	3-031-04718-4
Descrizione fisica	1 online resource (161 pages)
Collana	Lecture Notes in Computer Science ; ; v.13226
Disciplina	004.6782
Soggetti	Service-oriented architecture (Computer science)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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 Autonavagation 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 --
References -- Author Index.
