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Nota di contenuto	-- A Bio-Inspired Leader-based Energy Management System for Drone Fleets. -- A Conceptual Framework for API Refactoring in Enterprise Application Architectures. -- A Quantitative Privacy Evaluation Method Based on Tsallis Entropy for Trustworthy Data Sharing. -- A Survey Study about the Impacts of Introducing a Microservices Cataloging Tool in a Large Software Development Unit. -- Adaption via Selection: On Client Selection to Counter Concept Drift in Federated Learning. -- Applying a Prompt Pattern Sequence for Decision-Making in Microservices Architectures. -- Carbon-aware Software Services. --

Comparative Analysis of Lightweight Kubernetes Distributions for Edge Computing: Performance and Resource Efficiency. -- Comparative Analysis of Lightweight Kubernetes Distributions for Edge Computing: Security, Resilience and Developer Experience. -- Deep Surrogate Models of Serverless Batch Processing Services. -- Enhancing Failure Resilience of Cloud-Edge Microservices: The FREEDA Approach [work-in-progress research project]. -- ML-Based Performance Modeling in Edge FaaS Systems. -- pyStorageLess: Leveraging Von Neumann's Architecture to Abstract Storage Heterogeneity in Serverless Applications. -- SafeAR: Privacy-maintenance in augmented reality applications (Submitted to Project Report Track). -- SemT: A Service Model for Tabular Data Enrichment. -- TOSCARISMA: Modeling CARISMA-based Service Communication using TOSCA. -- Towards Web Assembly-based Federated Learning. -- Workflow-Net Compositions for the Analysis of Service-Oriented Systems.

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th IFIP WG 6.12 European Conference on Service-Oriented and Cloud Computing, ESOC 2025, held in Bolzano, Italy, during February 20–21, 2025. The 12 full papers and 6 short papers included in this book were carefully reviewed and selected from 28 submissions. This paper focus on the cutting-edge research in Service-Oriented and Cloud Computing areas.
