

ICSA 2020	MONDAY NOVEMBER 2				TUESDAY NOVEMBER 3		WEDNESDAY NOVEMBER 4			THURSDAY NOVEMBER 5		FRIDAY NOVEMBER 6			
09:00-09:20 (PST)	T1: Enabling Industry 4.0 with Eclipse BaSyx 👉 Alpha room	T2: Modeling Micro-services with DDD 👉 Beta room	WS1: BlockArch 👉 Gamma room	WS2: SESoS/WDES 👉 Delta room	T3: Challenges and Approaches for the Assessment of Microservice Architecture Deployment Alternatives in DevOps 👉 Alpha room	WS3: SEH 👉 Beta room	Opening Session			Keynote: Tim Menzies, NC State University		Keynote: Alexandre Freire and Henrique Alves, NuBank			
09:20-10:00 (PST)							👉 Plenary room			Keynote: André van der Hoek, University of California		👉 Plenary room		👉 Plenary room	
10:00-10:10 (PST)							👉 Plenary room			👉 Plenary room			Break		Break
10:10-10:20 (PST)							👉 Plenary room			👉 Plenary room			Session 3-a	Session 3-b	Session 5
10:20-10:30 (PST)	👉 Alpha room	👉 Beta room	👉 Gamma room	👉 Delta room	👉 Alpha room	👉 Beta room	Break			A Complexity Metric for Microservices Architecture Migration (TT)	The evolution of architectural decision making as a key focus area of software architecture research (TT)	Technical Architectures for Automotive Systems (TT)			
10:30-10:50 (PST)							Session 1-a	Session 1-b	Session 1-c	👉 Alpha room	👉 Beta room	👉 Alpha room	👉 Beta room	👉 Alpha room	
							How 'micro' are your services? (NEMI)	PerfMinerArch - A Tool to Visualize and Analyze Performance Deviations (Tools)	Semi-automatic Architectural Suggestions for the Functional Safety of Cooperative Driving Systems (NEMI)	Microservice Decomposition via Static and Dynamic Analysis of the Monolith (SAiP)	COCOS: a Scalable Architecture for Containerized Heterogeneous Systems (TT)	Automated Microservice Identification in Legacy Systems with Functional and Non-Functional Metrics (TT)			
							👉 Alpha room	👉 Beta room	👉 Gamma room	👉 Alpha room	👉 Beta room	👉 Alpha room			
10:50-11:00 (PST)	Break				Break		Data-driven Adaptation in Microservice-based IoT Architecture (NEMI)	A Toolbox for Realtime Timeseries Anomaly Detection (Tools)	Understanding Software Systems through Interactive Pattern Detection (NEMI)	From Monolithic architecture Style to Microservice one based on Semi-automatic Approach (TT)	Butterfly Space: An Architectural Approach for Investigating Performance Issues (TT)	Strategies for Pattern-Based Detection of Architecturally-Relevant Software Vulnerabilities (TT)			
11:00-11:10 (PST)	T1: Enabling Industry 4.0 with Eclipse BaSyx 👉 Alpha room	T2: Modeling Micro-services with DDD 👉 Beta room	WS1: BlockArch 👉 Gamma room	WS2: SESoS/WDES 👉 Delta room	T3: Challenges and Approaches for the Assessment of Microservice Architecture Deployment Alternatives in DevOps 👉 Alpha room	WS3: SEH 👉 Beta room	👉 Alpha room	👉 Beta room	👉 Gamma room	👉 Alpha room	👉 Beta room	👉 Alpha room			
11:10-11:30 (PST)							Towards Formalizing Microservices Architectural Patterns with Event (NEMI)	An Automated Approach to Recover the Use-case View of an Architecture (NEMI)	The Impact of Constructors on the Validity of Class Cohesion Metrics (NEMI)	Anatomy, concept, and design space of blockchain networks (TT)	Employment of optimal approximations on Apache Hadoop checkpoint technique for performance improvements (TT)	Architectural Patterns for Cross-Domain Personalised Automotive Functions (TT)			
11:30-11:40 (PST)							👉 Alpha room	👉 Beta room	👉 Gamma room	👉 Alpha room	👉 Beta room	👉 Alpha room			
							Break			Break			Break		
11:40-12:00 (PST)	👉 Alpha room	👉 Beta room	👉 Gamma room	👉 Delta room	👉 Alpha room	👉 Beta room	Session 2-a	Session 2-b		Session 4-a	Session 4-b	Session 6			
12:00-12:20 (PST)							Model-Based Analysis of Microservice Resiliency Patterns (TT)	Automated Security Analysis for Microservice Architecture (NEMI)		Incremental Calibration of Architectural Performance Models with Parametric Dependencies (TT)	A Classification of Replicated Data for the Design of Eventually Consistent Domain Models (SAiP)	DesignDiff: Continuously Modeling Software Design Difference from Code Revisions (TT)			
							👉 Alpha room	👉 Beta room		👉 Alpha room	👉 Beta room	👉 Alpha room			
							REST vs GraphQL: A Controlled Experiment (TT)	Towards Identifying Microservice Candidates from Business Rules Implemented in Stored Procedures (SAiP)		A Goal-driven Approach for Deploying Self-adaptive IoT Systems (TT)	Multi-tenant Quality Attributes to Manage Tenants in SaaS Applications (ECRF)	Unlimited Rulebook: a Reference Architecture for Economy Mechanics in Digital Games (TT)			
12:20-12:40 (PST)	👉 Alpha room	👉 Beta room	👉 Gamma room	👉 Delta room	👉 Alpha room	👉 Beta room	Enforcing Architectural Security Decisions (TT)	A Lightweight Architecture Analysis of a Monolithic Messaging Gateway (SAiP)		Quantitative Verification-Aided Machine Learning: A Tandem Approach for Architecting Self-Adaptive IoT Systems (TT)	A Model-Driven Architectural Design Method for Big Data Analytics (ECRF)	Are Architectural Smells Independent from Code Smells? An Empirical Study (Journal First Track)			
							👉 Alpha room	👉 Beta room		👉 Alpha room	👉 Beta room	👉 Alpha room			
ICSA2020's Most Influential Paper Award							On the Deployment of IoT Systems: An Industrial Survey (SAiP)	Serverless: What it Is, What to Do and What Not to Do (SAiP)	Closing						
👉 Plenary room							👉 Alpha room	👉 Beta room	👉 Plenary room						