

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	T2: Modeling Micro-services with DDD	WS1: BlockArch	WS2: SESoS/WDES	T3: Challenges and Approaches for the Assessment of Microservice Architecture Deployment Alternatives in DevOps	WS3: SEH	Opening Session			Keynote: Tim Menzies, NC State University		Keynote: Alexandre Freire and Henrique Alves, NuBank						
09:20-10:00 (PST)							📍 Plenary room			📍 Plenary room		📍 Plenary room						
10:00-10:10 (PST)							Keynote: André van der Hoek, University of California			📍 Plenary room		Break		Break				
10:10-10:20 (PST)							📍 Alpha room			📍 Beta room	📍 Gamma room	📍 Delta room	📍 Alpha room	📍 Beta 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						
							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)	📍 Alpha room	📍 Beta room	📍 Gamma room						
							📍 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	T2: Modeling Micro-services with DDD	WS1: BlockArch	WS2: SESoS/WDES	T3: Challenges and Approaches for the Assessment of Microservice Architecture Deployment Alternatives in DevOps	WS3: SEH	📍 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)	📍 Alpha room	📍 Beta room	📍 Gamma room	📍 Alpha room	📍 Beta room	📍 Alpha room	
11:30-11:40 (PST)							📍 Alpha room			📍 Beta room	📍 Gamma room	📍 Delta room	📍 Alpha room	📍 Beta room	Break			Break
							Session 2-a	Session 2-b		Session 4-a	Session 4-b	Session 6						
11:40-12:00 (PST)	📍 Alpha room	📍 Beta room	📍 Gamma room	📍 Delta room	📍 Alpha room	📍 Beta room	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)				
12:00-12:20 (PST)							📍 Alpha room			📍 Beta room		📍 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)			
							📍 Alpha room			📍 Beta room		📍 Alpha room	📍 Beta room	📍 Alpha room	📍 Beta room	📍 Alpha room		
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)				
12:40-13:00 (PST)							📍 Alpha room			📍 Beta room		📍 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						