ICSA 2020	MONDAY NOVEMBER 2				TUESDAY NOVEMBER 3		WEDNESDAY NOVEMBER 4			THURSDAY NOVEMBER 5		FRIDAY NOVEMBER 6
09:00-09:20 (PST)							**Opening Session** **Plenary room**			Keynote: Tim Menzies, NC State University **Plenary room**		Keynote: Alexandre Freire and Henrique Alves, NuBank **Plenary room**
09:20-10:00 (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	Keynote: André van der Hoek, University of California **Plenary room**					
10:00-10:10 (PST)										**Break**		**Break**
10:10-10:20 (PST)										*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) **Alpha room**	The evolution of architectural decision making as a key focus area of software architecture research (TT) **Beta room**	Technical Architectures for Automotive Systems (TT) **Alpha room**
10:30-10:50 (PST)							*Session 1-a* How 'micro' are your services? (NEMI) **Alpha room**	*Session 1-b* PerfMinerArch - A Tool to Visualize and Analyze Performance Deviations (Tools) **Beta room**	*Session 1-c* Semi-automatic Architectural Suggestions for the Functional Safety of Cooperative Driving Systems (NEMI) **Gamma room**	Microservice Decomposition via Static and Dynamic Analysis of the Monolith (SAiP) **Alpha room**	COCOS: a Scalable Architecture for Containerized Heterogeneous Systems (TT) **Beta room**	Automated Microservice Identification in Legacy Systems with Functional and Non-Functional Metrics (TT) **Alpha room**
10:50-11:00 (PST)	**Break**				**Break**		Data-driven Adaptation in Microservice-based IoT Architecture (NEMI) **Alpha room**	A Toolbox for Realtime Timeseries Anomaly Detection (Tools) **Beta room**	Understanding Software Systems through Interactive Pattern Detection (NEMI) **Gamma room**	From Monolithic architecture Style to Microservice one based on Semi-automatic Approach (TT) **Alpha room**	Butterfly Space: An Architectural Approach for Investigating Performance Issues (TT) **Beta room**	Strategies for Pattern-Based Detection of Architecturally-Relevant Software Vulnerabilities (TT) **Alpha room**
11:00-11:10 (PST)												
11:10-11:30 (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**	Towards Formalizing Microservices Architectural Patterns with Event (NEMI) **Alpha room**	An Automated Approach to Recover the Use-case View of an Architecture (NEMI) **Beta room**	The Impact of Constructors on the Validity of Class Cohesion Metrics (NEMI) **Gamma room**	Anatomy, concept, and design space of blockchain networks (TT) **Alpha room**	Employment of optimal approximations on Apache Hadoop checkpoint technique for performance improvements (TT) **Beta room**	Architectural Patterns for Cross-Domain Personalised Automotive Functions (TT) **Alpha room**
11:30-11:40 (PST)							**Break** *Session 2-a*	*Session 2-b*		**Break** *Session 4-a*	*Session 4-b*	**Break** *Session 6*
11:40-12:00 (PST)							Model-Based Analysis of Microservice Resiliency Patterns (TT) **Alpha room**	Automated Security Analysis for Microservice Architecture (NEMI) **Beta room**		Incremental Calibration of Architectural Performance Models with Parametric Dependencies (TT) **Alpha room**	A Classification of Replicated Data for the Design of Eventually Consistent Domain Models (SAiP) **Beta room**	DesignDiff: Continuously Modeling Software Design Difference from Code Revisions (TT) **Alpha room**
12:00-12:20 (PST)							REST vs GraphQL: A Controlled Experiment (TT) **Alpha room**	Towards Identifying Microservice Candidates from Business Rules Implemented in Stored Procedures (SAiP) **Beta room**		A Goal-driven Approach for Deploying Self-adaptive IoT Systems (TT) **Alpha room**	Multi-tenant Quality Attributes to Manage Tenants in SaaS Applications (ECRF) **Beta room**	Unlimited Rulebook: a Reference Architecture for Economy Mechanics in Digital Games (TT) **Alpha room**
12:20-12:40 (PST)							Enforcing Architectural Security Decisions (TT) **Alpha room**	A Lightweight Architecture Analysis of a Monolithic Messaging Gateway (SAiP) **Beta room**		Quantitative Verification-Aided Machine Learning: A Tandem Approach for Architecting Self-Adaptive IoT Systems (TT) **Alpha room**	A Model-Driven Architectural Design Method for Big Data Analytics (ECRF) **Beta room**	Are Architectural Smells Independent from Code Smells? An Empirical Study (Journal First Track) **Alpha room**
12:40-13:00 (PST)							ICSA2020's Most Influential Paper Award **Plenary room**			On the Deployment of IoT Systems: An Industrial Survey (SAiP) **Alpha room**	Serverless: What it Is, What to Do and What Not to Do (SAiP) **Beta room**	**Closing** **Plenary room**