ApPLIED: Advanced tools, programming languages, and PLatforms for Implementing and Evaluating algorithms for Distributed systems

Held in conjunction with PODC-2021 — a virtual workshop on July 30, 2021 9:00 to 13:20 <u>Eastern Time Zone</u> (EDT)

15:00 to 19:20 Central European Summer Time (CEST)

Session 1:	Distributed Consensus: Implementation, Specification, and Verification	
9:00 EDT 15:00 CEST	Opening (Miguel Matos)	
9:10 EDT 15:10 CEST	Invited talk: Virtual Consensus in the Delos Storage System, Mahesh Balakrishnan (Facebook Inc.)	Chair: Elad Schiller
9:50 EDT 15:50 CEST	Invited talk: One size does not fit all for formal specification and verification of distributed systems, Murat Demirbas (Amazon Web Services and State University of New York at Buffalo)	Chair : Annie Liu
10:30 EDT 16:30 CEST	Experimental Distributed Systems	Chair : Chryssis Georgiou
	An Executable Specification of Paxos for System Builders, Rahul Sihag, Robinhood (work was performed at Stony Brook University)	
	Implementation and Evaluation of Self-Stabilizing Emulation of State-Machine Replication with Global Restart Mechanism, Daniel Karlberg and Daniel Kem (Chalmers University of Technology)	
	Implementation and Evaluation of Self-Stabilizing Binary Consensus, Amanda Sjöö (Chalmers University of Technology)	
11:00 EDT 17:00 CEST	Break/Chat: Tools for Distributed Algorithms and Systems	Host: Annie Liu

11:20 EDT 17:20 CEST	Invited talk: How to (Not) Build Edge Applications? Ahmed Ali-Eldin Hassan (Chalmers University of Technology)	Chair: Miguel Matos
11:40 EDT 17:40 CEST	Invited talk: Experimenting in the Edge to Cloud Continuum, Kate Keahey (Argonne National Lab)	Chair : Chryssis Georgiou
12:20 EDT 18:20 CEST	Experimental Distributed Systems	Chair : Elad Schiller
	ReFI - Reproducible Fault Injection in Distributed Systems, Daniel Castro (University of Lisbon)	
	Scalable and Efficient Network Emulation, Sebastião Amaro (University of Lisbon)	
	Deployment and Empirical Evaluation of CoBFS in the Emulab Network Testbed, Andria Trigeorgi (University of Cyprus)	
12:50 EDT 18:50 CEST	Panel : Tools for Distributed Algorithms and Systems, Mahesh Balakrishnan, Murat Demirbas, Ahmed Hassan, and Kate Keahey	Chair: Miguel Matos
13:10 EDT	Closing (Chryssis Georgiou)	

19:10 CEST