International Workshop on Serverless to Serve More at Scale STEERS 2021

http://www.steers.iitkgp.ac.in

in conjunction with
The 21st IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing - CCGRID 2021

Workshop Organizers

(Sorted by surname)

Sourav Kanti Addya
National Institute of Technology Karnataka, India

Sandip Chakraborty
Indian Institute of Technology Kharagpur, India

Soumya K Ghosh
Indian Institute of Technology Kharagpur, India

Dheryta Jaisinghani
University of Northern Iowa, USA

Abhishek Mukherji
Accenture Lab, USA

Nirupam Roy
University of Maryland College Park, USA

Sanjib Sur
University of South Carolina, USA

Important Dates

Submission Open:
December 15, 2020

Paper Deadline:
February 20, 2021

Notification:
March 1, 2021

Camera-ready:
March 5, 2021

Call for Papers

With the widespread popularity of Amazon AWS Lambda, Google Cloud Function, Microsoft Azure Functions, etc., Serverless Computing has gained significant impetus in recent times because of its simplicity. It is the next generation cloud service delivery paradigm and is also known as Function as a Service (FaaS). Almost all big players in the cloud have successfully launched commercially usable serverless computing platforms, although there are many open challenges in terms of their scalability and applicability for widespread deployments. These challenges are many-fold, starting from developing light-weight sandboxing platforms for FaaS supports, deciding optimal deployment strategies for function deployments, increasing the consolidation ratio of the functions, development of economic models for end-users as well as cloud service providers for their individual profit maximization, and so on. Given that majority of the cloud service providers now support serverless computing and direct function execution over the cloud platforms, a thorough investigation of the support systems is necessary through cutting-edge researches in this field.

This workshop aims to provide a forum for researchers and practitioners to exchange innovative ideas, latest research findings, practical experiences, lessons learned, and future directions to propel the research on serverless computing. The topics include, but are not limited to:

- **Cloud to serverless: Gap, Issues and Challenges**
- **Serverless Infrastructure**
- **Virtualization platforms for serverless sandboxing**
- **Serverless applications: Debugging and Deployment**
- **Serverless computing: Benchmarks and Use cases**
- **Serverless computing: Models, Businesses, and Marketing**
- **Serverless Applications**
- **Benchmarks of serverless applications and services**
- **Serverless for the Internet of Things (IoT)**
- **Blockchain-based implementation for Serverless**
- **Security challenges in Serverless computing**
- **Economic models for serverless function deployments**

MAY 10-13, 2021, MELBOURNE, VICTORIA, AUSTRALIA

http://www.steers.iitkgp.ac.in/

Write to us: steers.ccgrid@gmail.com