The 2nd International Workshop on Serverless To sErvE moRe at Scale (STEERS 2022)

in conjunction with The 22nd IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing - CCGRID 2022

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

Organizing Committee

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Important Dates

Submission Open:
December 05, 2021

Paper Deadline:
February 11, 2022

Notification:
March 04, 2022

Camera-ready:
March 18, 2022

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:

- **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**

In addition to research papers STEERS also invites submission in the following three categories:

Challenge Papers
The conference invites submissions of Challenge papers that present revolutionary new ideas that challenge existing assumptions prevalent among the serverless community and cloud community in general. These "challenge papers" should provide stimulating ideas that may open up exciting avenues and/or influence the direction of future serverless research. Exhaustive evaluation of the proposed ideas is not necessary in tis category, instead insight and in-depth understanding of the issues is expected. Challenge papers should be submitted using the same submission procedure adopted for the regular papers. Accepted Challenge papers will also be included in the proceedings. The title of these papers must bear a "Challenge:" prefix.

Experience Papers
The conference invites submission of Experience papers that present the details and insights from real-life testbeds and/or large scale experimental platforms around the research topics mentioned above. Such papers should provide detailed insights into (1) building the testbeds/platforms, (2) lessons that are impractical in a research setup, and (3) implications for further research in the relevant domain. Experience papers shall follow the same submission process as the regular papers with an “Experience:” prefix in the title. Accepted Experience papers will also be included in the proceedings.

Verification Papers
The conference invites submission of Verification papers that seek to validate and/or characterize recent results in serverless computing methodologies. The goal of these papers are to thoroughly characterize the parameters under which previously published results can be reproduced. Verification papers shall follow the same submission process as the regular papers with an “Verification:” prefix in the title. Accepted Verification papers will also be included in the proceedings.

We invite original research papers that have not been previously published and are not currently under review for publication elsewhere. Submitted papers should be no longer than **8 pages** (including references and appendices) in two-column IEEE template format. Papers need to be submitted through Easychair submission portal https://easychair.org/conferences/?conf=steers2022.

All accepted papers will be published as part of the CCGRID proceedings. All previous CCGRID proceedings have been published by the IEEE and available online through IEEE Digital Library (EI indexing).

MAY 16-19, 2022, TAORMINA (MESSINA), ITALY

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

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