

Call for Contributions

Submission:

1. **Inform the Chairs:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=FASSI+2018+Special>

Please select Track Preference as **INTENSIVE**

Special track

INTENSIVE: Designing and Architecting Data-intensive Systems

Chair and Coordinator

Nitish Devadiga, Datarista Inc. / Carnegie Mellon University, USA ndevadig@alumni.cmu.edu

along with

FASSI 2018, The Fourth International Conference on Fundamentals and Advances in Software Systems
Integration

September 16, 2018 to September 20, 2018 - Venice, Italy

<http://www.aria.org/conferences2018/FASSI18.html>

Intensiveness is a qualitative concept of expressing the degree of resources needed to fulfill a given task under strong requirements of communication, computation, storage or simply data-volume where solutions are time-critical or have a mass impact. The well-known computation/resource intensive paradigm portrays a paradigm shift with the advent of high-speed applications, on-line multi-user game services, Grid applications and services, or on-demand resources and services. With the heavy distributed and parallel applications, communication intensive aspects, such as bandwidth-intensive and propagation intensive, became key contributors for optimizing workflows of computation of intensive tasks, or storage and access-intensive applications. For example, the massive scalability and storage capacity make it the clear choice for replication-intensive scenarios; the bandwidth-intensive becomes relevant for content streaming systems, while replication and data reuse are important for data-intensive applications on Grids.

Intensiveness has many facets (communications, process, data, security, computation, user-related, control, technology-related, etc.). The special track aims at identifying the challenges in building advanced data-oriented systems and identify new research methods and techniques to comprehend and advance the current practices in data architecture, processing, management, and operations.

Topics include, but not limited to:

- Large-scale data processing and analysis
- Entity resolution
- High performance computing
- Distributed systems architecture and design
- Programming models for big data
- Stream processing architecture and patterns
- Batch processing architecture and patterns
- Incentive-based systems
- Social computing and user-interface aspects
- Messaging protocols, communication and patterns
- Application design around data flow
- Data observability, consistency and consensus

- Data models and query languages
- Data management and security
- Data integration and data storage techniques

Important Datelines

- Inform the Chair (see Contacts below): as soon as you decided to contribute
- Submission: ~~June 4~~ **July 10**
- Notification: ~~July 2~~ **July 30**
- Registration: ~~July 16~~ **August 10**
- Camera ready: ~~July 22~~ **August 10**

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaria.org/registration.html>

Contacts

Chairs: Nitish Devadiga, ndevadig@alumni.cmu.edu

FASSI logistics: steve@iaria.org