Call for Contributions

Note: Onsite and Online Options
In order to accommodate a large number of situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person, but are aware that special circumstances are best handled by having flexible options.

Submission:

1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ADAPTIVE+2020+Special
Please select Track Preference as **ESES**

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Special track

ESES: Evolving Software Ecosystems and Services

Chairs

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along with

ADAPTIVE 2020, The Twelfth International Conference on Adaptive and Self-Adaptive Systems and
Applications
https://www.iaria.org/conferences2020/ADAPTIVE20.html
October 25 - 29, 2020 - Nice, France

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Software Ecosystems are a rapidly evolving phenomenon in the field of software engineering and computer science in general. Classical approaches of computer science do not scale well for today's large and complex software-intensive systems. A large part of the complexity arises due to the different requirements of individual (end) users. Aligning with the growing technologies and changing requirements, software systems cannot be considered in isolation and as a monolithic system. In order to tackle these challenges, we need to combine the isolated systems to achieve new, more powerful ecosystems. One of the main challenges is to figure out the balance between the isolated systems on the one side, and the frame of the ecosystem (which considers rules and controlling mechanism) on the other side.

ESES targets approaches along the research of software ecosystems and services. Developing, maintaining, and continuously evolving of ecosystems and its components requires a deep understanding of the

characteristics and the inclusion of the human interaction in different roles, including: the emergence of functions, extending classical engineering approaches, adaptive infrastructures, control of semantic diversity, and enhanced human-environment-machine interaction.

A Software Ecosystem can be considered as an overall entity and access for a shared market for software, services, and humans, together with relationships among them. These relationships are frequently underpinned by a common technological platform, or at least at specified communication interfaces and operate through the exchange of information, resources, and artifacts.

Nowadays, we consume and produce data like never before. Companies have started using these data traces to analyze the customer requirements and preferences, for example. Ecosystems were originally referred to as information technology environments. The birth of the web and cloud services has changed that. Now, data is captured and used throughout organizations and IT professionals leading towards data ecosystems. The resulting business faces not only the challenges of proper marketing but also social challenges, e.g., the control by the users over their personal data.

Understanding the way information systems grow and change over time and the role of different contributors in these processes is a central problem to current research on software development and digital innovation.

We solicit both academic, research, and industrial contributions. We welcome technical papers presenting research and practical results, position papers, survey papers addressing the key problems and solutions on any of the above topics, and short papers on work in progress.

Topics include, but not limited to:

- Software ecosystems in practical environments
- Data ecosystems
- Digital ecosystems
- Data and Digital Ecosystem Infrastructures
- Architectures and best practices for ecosystems and services, e. g., Microservices
- Social, Law, and Technical challenges related to the life cycle of ecosystems and services
- Software Engineering approaches for ecosystems and services
- Data driven architectures
- Semantic Service Integration
- Data & Knowledge Management and Trading
- Service Orchestration and Composition
- Service Life-cycle Management
- Trust, Transparency, Security & Privacy
- Social and Collaborative Platforms
- Shared versus concentrated Ownership
- Human-Computer Interaction
- Case studies and benchmark examples related to all of the above topics
- Experience Reports related to all of the above topics
- Models, Tools, and Methods supporting all of the above topics

Important Datelines
　　　Inform the Chair: As soon as you decide to contribute
　　　Submission: August 15, 2020
　　　Notification: August 31, 2020
　　　Registration: September 7, 2020
　　　Camera-ready: September 7, 2020

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
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ADAPTIVE+2020+Special
Please select Track Preference as **ESES**

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

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