

Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

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

Please select Track Preference as **PMS**

Special track

PMS: Physical Manufacturing Services

Chairs and Coordinators:

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along with

SERVICE COMPUTATION 2018, The Tenth International Conference on Advanced Service Computing

<http://www.iaria.org/conferences2018/SERVICECOMPUTATION18.html>

3D printing or Additive Manufacturing both denote technologies to physically create objects based on digital models. This manufacturing technology allows for individually created objects without most restraints on geometry and constitution. Currently, most of these manufacturing machines are solitary, without interconnection and integration into larger environments. With concepts like Industry 4.0 or Industrial Internet of Things (IIoT), these resources are brought together, put onto the Internet, made smarter and usable for a wider range of people and applications. For this transition, from individual manufacturing machines, to a service oriented system, computer science plays an important role by providing and creating the necessary connecting software and services. Such services can be regarded as smart services that interface cyber-physical systems, with other systems and real appliances, such as Additive Manufacturing machines. With this special track, we want to discuss concepts and approaches that facilitate this future oriented manufacturing policy. Different aspects of this approach are to be presented within the special track, ranging from legal discussions, various algorithmic proposals, smart service integration, security and efficiency oriented architectural proposals to concepts regarding change management for such a transition.

The chairs of the Physical Manufacturing Services special track are seeking original papers on research and development topics in the field of the topics listed below. Prospective authors are cordially invited to submit original technical papers up to 6 pages of length, as well as work in progress or ideas and concepts contribution. Accepted papers will be published in the conference proceedings and their authors will provide an oral presentation, as scheduled in the conference program.

Accepted papers will be published in the conference proceedings and will be included in the www.thinkmind.org digital library. Selected papers will further be considered for publication in specialized journals. For more information, visit <http://www.iariajournals.org/>

Note: A recipient for a best paper award can be selected.

Topics include, but not limited to:

- Additive Manufacturing (Techniques, Methods, Improvements, Software)
- 4D printing
- Algorithms for 3D printing (Slicing, Packing, Placement, Mesh (re)construction)
- Cloud Manufacturing
- Reverse-Engineering
- Security in Additive Manufacturing
- 3D-Printing-as-a-Service
- Logistics of Manufacturing Services
- Legal + Regulatory Aspects
- Smart Services, CPS, Industry 4.0

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.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: Nov 3, 2017
- Notification: Dec 3, 2017
- Registration: Dec 17, 2017
- Camera ready: Jan 15, 2018

Paper Format

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

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.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.iaia.org/registration.html>

Contact

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