



23 rd Conference of Open Innovations
Association FRUCT
Bologna, Italy, 14-16 November 2018



**Workshop on
Semantic Audio and the Internet of Things**

We welcome you to take part in the **IEEE FRUCT International Workshop on Semantic Audio and the Internet of Things (ISAI18)** that will be held in Bologna (Italy) on 14 November 2018, in conjunction with FRUCT23 (<https://www.fruct.org/cfp>). The 23rd FRUCT Conference is organized by University of Bologna and the Open Innovations Association FRUCT, a large regional cooperation framework that promotes open innovations of academia and industry. Participants comes from Italy, Finland, Russia, UK, Denmark, India, and other countries and industry is primary represented by Dell EMC, Nokia, MariaDB, Intel, Jolla, Open Mobile Platform, Skolkovo, etc.

Overview

Semantic Audio is a research area devoted to the application of Semantic Web technologies to music and audio in general. The extraction of meaningful information through audio analysis yields metadata that different application areas may take advantage of. Music information retrieval, environmental sound recognition and event detection, audio production, gaming and intelligent live performance tools such as smart instruments are a few examples among numerous applications in this domain. A wider research area, with a stronger link with Semantic Audio is the Internet of Things. The latter may exploit Semantic Audio methodologies to process audio signals produced by sensors, the main building blocks of IoT applications, for instance, in environments such as smart buildings or smart cities. Vice versa, Semantic Audio may benefit from IoT and its native propensity to interoperability, as in the case of the Internet of Musical Things (IoMuT), to explore new ways of producing and accessing musical content, or new ways of using audio for sensing and control in smart environments.

The topics of interest include, but are not limited to the following subject areas:

- Speech and environmental audio processing and analysis for the Internet of Things
- Audio signal processing and feature extraction in the IoT
- Semantic audio description and ontologies
- Semantic Web and Linked Data for audio
- Music informatics and retrieval in networked environments
- Internet of Musical Things
- IoT technologies in professional audio production and delivery
- Collaborative creation of audio content in networks
- Applications in gaming, VR/AR, entertainment, education, surveillance, wearables, etc...

We welcome researchers as well as industry stakeholders to submit papers and take part in the workshop to share their research and findings. Early registration is a cost effective way to participate in the Workshop and the 23rd FRUCT conference. All workshop papers will be published Open Access in FRUCT proceedings (available for free under a CC BY-ND license download from FRUCT proceedings catalog). Posters and demos can be presented on the Demo Session (15 november 2018).

Call for papers and presentations

You can select one of the following 3 types of submissions:

- Full papers (min 6 full pages and up to 12 pages), deadline September 14, 2018;
- Short papers (min 2, max 5 pages), deadline September 14, 2018;
- Position papers (max 2 pages), deadline September 14, 2018;
- Poster or demo summary (min 1, max 5 pages), by October 29, 2018.

All papers must include references in the allotted page limits. Please note that an author can be a coauthor of a maximum of three documents of all types.

Publication

Papers and posters will be published in FRUCT proceedings (ISSN 2305-7254). Full papers will be also submitted to IEEE Xplore and indexed by Scopus, ACM and DBLP. Selected papers are recommended for CPCI indexing (Web of Science).

Important dates

- Conference dates: 13-16 November 2018
- ISAI workshop: 14-15 November 2018 (main workshop day: 14 Nov., Posters and demos: 15 Nov. 2018)
- Short/Full Paper submission deadline: 14 September 2018
- Notification of acceptance date: 5 October 2018
- Camera-ready submission deadline: 12 October 2018
- Authors registration deadline: 12 October 2018
- Demos/Posters submission deadline: 29 October 2018