



25th Conference of Open Innovations

## Association FRUCT

Helsinki, Finland, 7-8 November 2019

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



We welcome you to take part in the 3<sup>rd</sup> **IEEE FRUCT International Workshop on Semantic Audio and the Internet of Things (ISAI)** that will be held in **Helsinki, Finland** on **7-8 November 2019**, in conjunction with FRUCT25 (<https://www.fruct.org/node/374544>). The 25th FRUCT Conference is organized by University of Helsinki and the Open Innovations Association FRUCT, a large regional cooperation framework that promotes open innovations of academia and industry. Participants come from Russia, Finland, Italy, UK, Denmark, India, and other countries and industry is primary represented by Dell EMC, Nokia, MariaDB, Intel, Jolla, Open Mobile Platform, Skolkovo, etc.

#### Overview

The field of Semantic Audio is concerned with extracting information from audio signals that is meaningful and interpretable in different applications. Music information retrieval tools, speech or environmental sound recognition, audio and music production, gaming, music education and intelligent live performance systems including smart musical instruments are a few examples among numerous applications. A wide research area with increasingly strong links to Semantic Audio is the Internet of Things (IoT). Both fields may rely on Semantic Web technologies supporting common platforms for knowledge representation or interoperability. IoT applications may exploit Semantic Audio methodologies to process audio signals produced by sensors, the main building blocks of IoT applications. This may be applied in environments such as smart buildings or smart cities for example. Conversely, Semantic Audio may benefit from IoT and its native propensity to interoperability, as in the case of the Internet of Musical Things (IoMusT), enabling new ways of producing and accessing musical content, or new ways of using audio for sensing and control in smart environments. The International Workshop on Semantic Audio and the Internet of Things (ISAI) aims to bring together scholars and practitioners working in the confluence of these fields.

Topics of interest include, but are not limited to the following areas:

- Audio signal processing and feature extraction in the IoT
- Environmental audio processing and analysis for the Internet of Things
- Semantic Audio for smart cities and smart environment
- Music informatics and retrieval in networked environments
- Collaborative audio content creation in networked environments
- Semantic audio description and Semantic Web ontologies
- IoT technologies in professional audio production and delivery
- Internet of Musical Things (IoMusT)
- 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 25th 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).

#### Call for papers and presentations

The following four types of submissions categories are available:

- Full papers (min 6 full pages and up to 12 pages), **deadline September 16, 2019;**
- Short papers (min 2 pages, max 6 pages), **deadline September 16, 2019;**
- Position papers (max 2 pages), **deadline September 16, 2019;**
- Poster or demo summary (min 200 words, max 4 pages), **by October 28, 2019.**

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. Papers 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: 5-8 November 2019
- ISAI workshop: 7-8 November (main workshop day: 8 Nov., posters and demos: 7 Nov.)
- Short/Full Paper submission deadline: 16 September 2019
- Notification of acceptance date: 7 October 2019
- Camera-ready submission deadline: 14 October 2019
- Authors registration deadline: 14 October 2019
- Demos/Posters submission deadline: 28 October 2019

#### Organisers

Mathieu Barthet, QMUL (workshop co-chair)

George Fazekas, QMUL (workshop co-chair)

Fabio Viola, INFN (workshop co-chair)