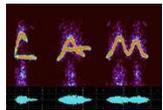




**d'Alembert**  
Institut Jean le Rond d'Alembert



# International Workshop on Folk Music Analysis



**Sorbonne Universities and  
University Pierre et Marie Curie, Paris, France  
candidates for the organization of the**

## **5<sup>th</sup> FMA workshop**

**Paris, June 2015**

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## 1. MOTIVATIONS

Our Research Team is motivated to organize the next session of the International Workshop on Folk Music Analysis (FMA) in 2015 because

- Since the middle of the 60's, the University Pierre et Marie Curie (Paris, France) and the University La Sorbonne (Paris, France) are well-known for its researches on music, especially from the following topics: musical informatics, vibratory and fluid mechanics in relation to instrument making and musical practices, musical signal processing, machine learning, ethnology, perception. For its excellence in scientific research, our University is classified as the first French University of Science in the Shanghai Academic Ranking of World Universities ([www.shanghairanking.com](http://www.shanghairanking.com)) that should fit the ambitions of a growing workshop like FMA.
- Many researchers in the Scientific Committee are involved in a common research program on ethnomusicology, entitled DIADEMS. Started in January 2013, this scientific program is a multi-disciplinary project whose consortium includes 4 research laboratories specialized in Science and Technology of Information and Communication domain (IRIT, LABRI, LIMSI, LAM), 3 laboratories in Musicology and Ethnomusicology domain (LESC, MNHN, LAM) and the French company Parisson which is involved in the development of Telemeta (<http://telemeta.org>), a scalable and collaborative web platform for managing and increasing access to digitized sound archives. The goal of the DIADEMS project is to develop computer tools to automatically index the recording content directly from the audio signal in order to improve the access to and the indexation of large ethnomusicological archives. The innovation of this project is to automatize the indexation of the audio recordings directly from the recorded sound itself. Ongoing works consist in implementing advanced classification, indexation, segmentation and similarity analysis methods dedicated to ethnomusicological sound archives. Besides music analysis, such automatic tools also deal with speech and other types of sounds classification and segmentation to enable a more exhaustive annotation of the audio materials since numerous ethnomusicological recordings contain speech and other types of sound that can be categorized as sounds from the environment or sounds generated by the recording. Tools developed in the context of this project are progressively implemented on the Telemeta platform managing the audio archives of the CNRS-Musée de l'Homme (<http://archives.crem-cnrs.fr>) which are among the most important collections of ethnomusicological recordings in Europe. This scientific program is financially supported by the French Agency of Research.
- Sorbonne Universities is a Research and Higher Education Cluster (PRES), created in 2010, which regroups eight major institutions, including the University Paris Sorbonne, the University Pierre et Marie Curie, the National Museum of Natural History, 3 public research organisations (CNRS, Inserm, IRD), assembling 2,900 researchers and 7,000 French and foreign PhD students.
- Benefiting from the proximity of many other academic institutes in Paris, many research projects of our university are involved in inter-disciplinary collaborative works. In the last years, our scientific team has been specifically interacting with specialists of Ethnomusicology, with the constant preoccupation of bringing original methodological approaches and tool analysis in the scope of different ethnomusicological projects, studying musical cultures over different geographical areas such as Africa, China and India.

- We would like to start each day by an invited speaker (40-45min minor presentation and then 10-15min for questions). Prof François Picard (IReMus UMR200 CNRS, PLM, RESMED, University Paris Sorbonne) has already accepted the invitation to present the recent results of his research Team on ethnomusicology.
- We would like to propose one extra-day to the workshop to have time for a second panel session, as we think that the specific issues addressed during these sessions, debated by ethnomusicologists and computational engineers who are specialized themselves in the considered issue, are critical to make progress in the field of Folk Music Analysis. We really feel that the inter-disciplinary issues raised by this workshop need to be dealt with through in-depth concrete projects, presented and discussed in details by the panel, which should lead to solutions marking a real advancement on issues. To accomplish this, a few very specific issues should be selected in advance by the organization committee, along with an exemplary FMA project to illustrate it, and also submitted to participants a few months before the workshop so that everyone could prepare their own remarks and comments.
- We already have great experience in organization of international conferences. With 5000 researchers working in more 120 laboratories, our University constantly hosts scientific international conferences and workshops held on the campus. Also, our laboratory regularly organized conferences, workshops and seminars (<http://www.dalembert.upmc.fr/ijlrda/index.php/conferences>). Then, Prof O. Adam organized already different conferences: 2<sup>nd</sup> International workshop of detection, classification and localization (DCL) of marine mammals using passive acoustics in Monaco in 2005 (150 participants, 18 nationalities, 5 days) and in Pavia (Italy) in 2009. He also organized the Marine Environmental Characterisation Conference (Brest, 2006, 80 participants, 4 days), the IEEE Workshop & Exhibition on New Trends for Environmental Monitoring using Passive Systems (Passive'08) in Hyères (France) in 2008 (120 participants, 4 days).
- Paris is known to be one of the famous places for the Arts in the World, and is an attractive destination. The metropolis of Paris offers all essential conditions for a highly successful conference. Paris is also very attractive: the City is known for its museums (the Louvre, le Musée d'Orsay, le Grand Palais, le Palais de la Découverte, ), the Cathedral of Notre-Dame-de-Paris, its typical historic buildings, formal and informal cruises on the Seine River, the impressionist painters of Montmartre, the philosophers of Montparnasse and the intellectual writers of St Germain.

## 2. SCIENTIFIC PROGRAM

The FMA workshop is intended for exchanging information that advances our understanding of ethnic music and their importance in cultural events. The goal is to encourage interdisciplinary approaches to solve technical problems related to the study of ethnomusicology, especially the use of relevant sensors to get audio-video recordings from in-situ observations, the development of new theoretical approaches to analyze these recordings and the proposition of tools to be used for musical studies.

## 2.1. TOPICS

As with previous workshops, this session will aim with the computational ethnomusicology. Topics include:

- Computational (ethno)musicology
- Retrieval systems for non-western and folk musics
- New methods for music transcription
- Statistical approaches to music
- Empirical approaches to music
- Folk music classification systems
- Models of oral transmission of music
- Cognitive modelling of music
- Aesthetics and related philosophical issues
- Methodological issues
- Representational issues and models
- Audio and symbolic representations
- Formal and computational music analysis

## 2.2. LOCATION

The FMA workshop would be held at the University Pierre et Marie Curie ([www.upmc.fr](http://www.upmc.fr)) in the center of Paris (France), close to the Seine River. The University is easy to reach:

- by car. The address: 4 place Jussieu, 75005 Paris, France (GPS: 48.8464111 / 2.3548468)
- by bus: lines 89 and 67, stop at the station "Jussieu", and line 63, stop at "Université Paris 6"
- by subway: lines 7 and 10, stop at the station "Jussieu"
- By train: 10min from the station "Gare de Lyon" and 20min from the stations "Gare de l'Est" and "Gare du Nord".
- By plane: less than 1h by RER B from Roissy Charles-de-Gaulle Airport and from Orly Airport.



## 2.3. IMPORTANT DATES

The important dates will be:

- 25 January 2015: Deadline for extended abstract submissions.
- 15 March 2015: Decisions for extended abstract submissions
- 10 May 2015: Deadline for submission of revised abstract or full paper
- 17 May 2015: Deadline for early registration and author registration
- 10 June 2015: Deadline for registration
- 10, 11, and 12 June 2015: Workshop

## 3. ORGANIZATION

### 3.1. THE SCIENTIFIC COMMITTEE

We would like to include in the scientific committee, researchers from different scientific areas. The scientific committee will accept the submitted abstract as oral presentation or poster or reject it. They will involve as chairman of the different session.

#### Computational Music Information Retrieval:

ADAM Olivier, LAM, Paris  
ASSAYAG Gérard, IRCAM, Paris  
CAZAU Dorian, LAM, Paris  
FILLON Thomas, Parisson, Paris  
LARTILLOT Olivier, Centre of Excellence in Interdisciplinary Music Research, Finland  
PELLERIN Guillaume, Parisson, Paris  
PINQUIER Julien, SAMOVA, IRIT, Toulouse

#### Ethnomusicology:

AYARI Mondher, IRCAM, Paris (to confirm)  
BONINI BARALDI Filippo, CREM-LESC, UMR 7186, Nanterre  
CHEMILLIER Marc, CAMS, EHESS, Paris  
CLER Jérôme, Sorbonne  
DEBOVE Julien, CAMS, EHESS, Paris  
GENEVOIS Hugues, LAM, Paris  
PICARD François, IReMus UMR200 CNRS, PLM, RESMED, Sorbonne, Paris  
SIMONNOT Joséphine, CREM-LESC, UMR 7186, Nanterre

### 3.2. THE LOCAL ORGANIZING COMMITTEE

The Dirac Ngo will deal with the whole organization of this FMA session in Paris, including:

- The announcement of the workshop on internet
- The welcome of the participants
- The organization and the publication of the scientific program
- The rent of the different rooms
- The pause-café
- The organization of the ice-breaking evening

The Local Organizing Committee will be:

- Adam Olivier, Professor at the University Pierre et Marie Curie
- Chemillier Marc, Senior researcher at the CAMS, EHESS
- Genevois Hugues, Director of the Laboratory LAM
- Pochart Martine, President of the Dirac Ngo.
- Cazau Dorian, PhD candidate at the Laboratory LAM

### 3.3. PARISSON

Parisson is a French company specialized in multimedia management from recording, production and broadcasting to web



platform development.

Parisson exclusively designs, develops and integrates open-source and free software components to providesustainable custom hardware and software solutions.

Since 2007, Parisson has been collaborating with several research centers in ethnomusicology and computer science to develop Telemeta, a scalable and collaborative web framework for the management, access and automatic analysis of digital sound archives in the context of scientific research activities.

Furthermore, the Telemeta platform focuses on the enhanced and collaborative user-experience in accessing audio items and their associated metadata.

It also provides to the expert users the possibility to further edit and enrich those metadata through global or time-based annotations.

As part of its R&D activities in signal processing and machine learning, Parisson is also developing TimeSide, an open-source audio processing framework written in both Python JavaScript languages and integrated in Telemeta.

TimeSide provides Telemeta with automatic signal processing and computational analysis capabilities in order to produce automatic annotations, segmentations and acoustical analysis of the audio materials.

By putting together a digital sound archive management framework, a collaborative annotation framework and an audio signal analysis framework, Telemeta can constitute a very valuable and stimulating platform for cross-disciplinary research on audio materials.

Besides ensuring the preservation of the collected data, by publishing their sound archives, researchers can promote their works and make them accessible securely. They could also benefit from the interaction with peers and practitioners from different spheres and scientific disciplines.