

# Tutorial 4

## COMputation and FLAmenco: Why Flamenco is Interesting for MIR Research

**Emilia Gómez** (Universitat Pompeu Fabra, Barcelona, Spain)

**Nadine Kroher** (Universitat Pompeu Fabra, Barcelona, Spain)

**Jose Miguel Díaz-Báñez** (Universidad de Sevilla, Spain)

**Sergio Oramas** (Universitat Pompeu Fabra, Barcelona, Spain)

**Joaquín Mora** (Universidad de Sevilla, Spain)

**Francisco Gómez-Martín** (Universidad Politécnica de Madrid, Spain)

### Abstract

This tutorial provides an introduction to flamenco music with the support of MIR techniques. At the same time, the tutorial analyzes the challenges and opportunities that this music repertoire offers MIR researchers, presents some research contributions and provides a forum to discuss about how to address those challenges in future research. As ISMIR 2015 is in Málaga, this tutorial will give ISMIR participants a unique chance to discover flamenco music in its original location. The tutorial will be structured in two main parts. First, we will provide a general introduction to flamenco music: origins and evolution, musical characteristics, instrumentation, singing and guitar. We will illustrate this introduction with multimedia material and live performance. Then we will analyze how MIR technologies perform for flamenco music. By discussing several MIR tasks and how they should be addressed in this context, we will discover more about flamenco and how methods tailored to this repertoire can be exploited in other contexts. We will focus on automatic transcription, singer identification, music similarity, genre classification, rhythmic and melodic pattern detection and context-based music description methods. Participants will have the chance to interact with MIR annotated datasets and tools developed for flamenco music in the context of the COFLA project.