

## informatik-Kolloquium

Der Fachbereich Informatik der Johannes Kepler Universität Linz<sup>1</sup> lädt in Zusammenarbeit mit der Österreichischen Gesellschaft für Informatik (ÖGI) zu folgendem Vortrag ein:

Topic: **Recent researches at IRCAM related to the recognition of rhythm, vocal imitations and music structure**

Presenter: **Dr. Geoffroy Peeters (IRCAM)**

Date: **15.12.2016, 16:15**

Location: **JKU, Mechatronicgebäude, (Science Park 1), MT 130**

**Abstract:** In this talk, I will present some recent researches at IRCAM related to - the description of rhythm (especially the use of the Fourier-Mellin transform or of the Modulation Scale Transform with Auditory statistics) - the recognition of vocal imitations (using HMM decoding of SI-PLCA kernels over time) - the estimation of musical structure (using Convolutional Neural Networks).

**ShortBio:** Geoffroy Peeters received his Ph.D. degree in computer science from the Université Paris VI, France, in 2001. During his Ph.D., he developed new signal processing algorithms for speech and audio processing. Since 1999, he works at IRCAM (Institute of Research and Coordination in Acoustic and Music) in Paris, France. His current research interests are in signal processing and pattern matching applied to audio and music indexing. He has developed new algorithms for timbre description, sound classification, audio identification, rhythm description, automatic music structure discovery, and audio summary. He owns several patents in these fields. He has also coordinated indexing research activities for the Cuidad, Cuidado, and Semantic HIFI European projects and is currently leading the audio branding activities in the ABC-DJ project. He is one of the co-authors of the ISO MPEG-7 audio standard.

Einladender: Prof. Dr. Gerhard Widmer  
Institut für Computational Perception

<sup>1</sup> Der Fachbereich (<http://informatik.jku.at>) besteht aus folgenden Instituten: Application Oriented Knowledge Processing (FAW), Bioinformatics, Computational Perception, Computer Architecture, Applied Systems Research and Statistics, Computer Graphics, Formal Models and Verification, Networks and Security, Integrated Circuits, Pervasive Computing, Software Systems Engineering, System Software, Telecooperation, Signal Processing