

 **informatik-Kolloquium**

Der Fachbereich Informatik der Johannes Kepler Universität Linz¹ lädt in Zusammenarbeit mit der Österreichischen Gesellschaft für Informatik (ÖGI) zu folgendem Vortrag ein:

Dr.-Eng. Geoffroy Peeters
Institut de Recherche et Coordination
Acoustique/Musique, Paris, France

**Research and Applications related to Audio and
Music Content Indexing at Ircam**

Mi, 12. 1. 2011, 14.30 Uhr
Johannes Kepler Universität Linz, Raum MT124

Abstract:

At Ircam, activities related to music indexing started in 1998, with the Studio-On-Line project, the first online large-sound-database with search-by-content facilities. Over the years and the successive national or European projects (Cuidad, Cuidado, Ecrins, SemanticHIFI, Ecoute, Quaero) Ircam has developed technologies for content-description related to most music facets: multi-pitch, beat, down-beat, meter, chords, key/mode, music structure, singing voice, music genre/ mood/ tag, sound/music similarity using various methods ranging from low-level, to score estimation and source separation methods. Content-description relies on a large part on annotated data. Recent research activities focus on the development of annotation concepts and collection suitable for audio indexing and musically relevant for nowadays music. Content-description is commonly used for facilitating data access, it can also be used for sound creation or modification as was studied in the Orchestration project or is used in corpus-based concatenative music synthesis (musaicing). In this talk, we will review these various activities of Ircam.

¹ Der Fachbereich (<http://informatik.jku.at>) besteht aus folgenden Instituten:

Anwendungsorientierte Wissensverarbeitung (FAW), Bioinformatik, Computational Perception, Computergrafik, Computer-Architektur, Formale Modelle und Verifikation, Informationsverarbeitung und Mikroprozessortechnik (FIM), Integrierte Schaltungen, „integriert studieren“, Pervasive Computing, Systemsoftware, Systems Engineering und Automation, Telekooperation

About the speaker:

Geoffroy Peeters is a Head of Research at the Institut de Recherche et Coordination Acoustique/Musique (Ircam), which is located at the world famous Centre Pompidou. At Ircam, one of the largest music research groups in the world, he is coordinating the research activities on audio indexing and retrieval. He is also a Reader at the École d'Ingénieurs Télécom ParisTech, the Conservatoire National des Arts et Métiers and at the University Paris VI. He is member of the French national organization for standardization (AFNOR), the AES committee on Audio Semantic Analysis and has been working on the MPEG-7 standard. Geoffroy holds a master degree in electrical engineering sciences from the Catholic University of Louvain (Belgium) and a DEA master and a Ph.D. from University Paris VI.

*o. Univ.-Prof. Dr. Gerhard Widmer
Institut für Computational Perception*

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