



Organizers:

Prof. Jan Larsen, DTU Compute, Technical University of Denmark

Prof. Mark Plumley, Centre for Digital Music, Queen Mary University London

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Higher-level semantic representations are essential for organization, search, retrieval, and discovery of audio and music. Despite the development of several representations, even basic organization of music in genres or computing similarity measures between audio objects are ill-defined problems. In order to mitigate semantic ambiguity and ensure an actionable representation - i.e., enable users to understand, organize, analyze, etc. - the formulation and implementation of an integrated framework is required. The framework should ideally consider all available information concerning the content and context of audio objects, as well as information about users' context, demographics, usage activity, content description, such as e.g. tags or scores. The objective of the special session is to address current modelling, retrieval and interfacing trends from experts in the field.

Keywords: Multi-modal analysis, hybrid approaches, cognitive processing, user-driven interaction, personalization, semantic, collaborative filtering, multi-task, cross-mining, data and information fusion, audio management and retrieval



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