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Computational audio analysis for music and health informatics

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With the current advancements in computing and multimedia technology, the information content for information processing is no longer confined to collections of text-based documents, but now consists of very diverse media such as images, video and audio. Various branches of media-specific information processing fields have now emerged due to the challenges specific to the characteristics of the various media data and the specialized domain knowledge required for developing modern-age and state-of-the art software applications. These typically employ Computational Intelligence techniques in combination with suitable Digital Signal Processing Algorithms. This talk will focus on the audio media and an overview of audio content analysis techniques will be presented towards automatic analysis and understanding of sounds. Several related projects in the domains of music and heart sounds will be discussed.

Biography

Shyamala Doraisamy is an Associate Professor at the Department of Multimedia, Faculty of Computer Science and Information Technology, University Putra Malaysia (UPM). She received her PhD from Imperial College London in 2004, specializing in the field of Music Information Retrieval and currently heads the Digital Information Computation and Retrieval research group at UPM. Her research interest includes Multimedia Information Processing, focusing in particular on Audio Content Analysis and Applications for Music and Health Informatics. She is a committee member of the Malaysia Society of Information Retrieval and Knowledge Management (PECAMP) and the recent Tenth Asia Information Retrieval Societies (AIRS) conference.

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