Keynote Talk 1

Integrating Music Information Sources for Music Production and Consumption

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Abstract

For several years, research at Queen Mary's Centre for Digital Music has probed the intersection of signal analysis technologies with informatics technologies. More specifically, we have built audio signal-level feature extractors which output RDF—the language of the Semantic Web—which have enabled us to build prototypes that expose enhanced functionality and offer new experiences to music users of all kinds. This talk will summarise some of our early and recent work in Semantic Audio and Music Informatics, leading up to the current research themes of our FAST-IMPACt (Fusing Audio and Semantic Technologies for Intelligent Music Production and Consumption) project. FAST-IMPACt is a 5 year programme of research involving 3 UK universities together with commercial and non-commercial partners from around the world. Its overarching aim is to bring more engaging and immersive experiences based on musical knowledge of all kinds to users of all kinds. Where relevant and possible, the principles will be illustrated with demos.

Biography

Mark Sandler was born in 1955. He received the B.Sc. and Ph.D. degrees from the University of Essex, U.K., in 1978 and 1984, respectively. His PhD was an investigation into Digital Audio Power Amplification and he has been an active researcher in Digital Audio and Digital Music ever since. He is a Professor of Signal Processing at Queen Mary University of London, London, U.K., where he founded the Centre for Digital Music and he has published over 400 papers in journals and conferences and supervised over 30 PhD students. Mark Sandler is currently Director of the EPSRC/AHRC Centre for Doctoral Training in Media and Arts Technology, and Principal Investigator of the 5 year research project, Fusing Audio and Semantic Technologies for Intelligent Music Production and Consumption. Mark is a Fellow of the Institute of Engineering and Technology (FIET), a Fellow of the Audio Engineering Society (FAES), a Fellow of the British Computer Society (FBCS), and a Fellow of the Institution of Electronic and Electrical Engineers (FIEEE).