

*Faculty of Engineering and Natural Sciences
Seminar
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MUSIC AND MACHINE LEARNING

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Abstract

Machine learning provides interesting new methods for analyzing music. It allows many intuitive and qualitative observations to be made objective, precise and quantitative. One of the recent research areas of music technology is expressive analysis. It requires several different techniques from the fields of information retrieval and data analysis.

In this presentation, first I will talk about the evolution of music and machine learning applications on music. Then, I will continue with my recent study, note onset deviations as musical piece signatures. In this context, I will present state of the art feature extraction, information retrieval and machine learning techniques on expressive music analysis.

Biography

Tan Hakan Özaslan is a researcher in Artificial Intelligence Research Institute of Spanish Research Council since 2009. He is also a Ph.D. candidate in the Department of Information and Communication Technologies at Pompeu Fabra University, Barcelona. He received an MS degree in Sound and Music Computing from Pompeu Fabra University, Spain, an MA degree in Sound Engineering and Design from Istanbul Technical University, Turkey and a BS degree in Computer Engineering from Koç University, Turkey, in 2009, 2008 and 2005 respectively.

His research interests include, information retrieval focusing on music, machine learning applications, feature extraction and data analysis.