Conferencia Plenaria

Information-Theoretic Music Creativity

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Abstract

Modern computing methods allow machines to assume more active role in the music creation process. The machine tasks include capturing stylistic and structural properties of the sound and making artistic decisions about how to translate this knowledge into musical responses that are relevant to the music being performed and are reminiscent of creative human behavior. In the talk I will review some recent work on statistical modeling and machine learning of musical signals, and ways to guide or control machine improvisation systems using various criteria, from principles of computational aesthetics based on information theory, to broader approaches of modeling human and machine creativity.