

**Chaos, utopia and creation.**  
**Analysis of the dynamic of the System in music**

Carlos Duque — City University, London

Music has a particular dynamic of the system, which can be studied thanks to the Chaos theory. Analyzing this system and understanding his behaviour (highly sensitive to initial conditions), means to understand the structure and the most important factors throughout a piece.

In this paper I will explore the elements that Chaos theory apply for music analysis, both ontological and epistemological, and I will demonstrate how to analyze complex systems that produce both turbulence and coherence at the same time. In words of Richard Steinitz: 'What looks like random behaviour may, from a different perspective, reveal an exquisitely fine structure.'<sup>1</sup> I will explore as well, the use of different agents, which take the listener to a multilevel complexity sound experience, arising from the ambiguity and the hypothesis created in the listener himself.

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<sup>1</sup> Richard Steinitz, 'Music, Maths & Chaos', *Musical Times*, 137 (Mar. 1996), p. 17.