ΜΟΥΣΙΚΗ ΠΛΗΡΟΦΟΡΙΚΗ & ΜΟΥΣΙΚΗ ΜΕ ΥΠΟΛΟΓΙΣΤΕΣ

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Abstract

The book examines the use of computers and computer science in the art of music composition. The historical development and emerging aesthetic trends in computer music are discussed. The principles of converting analog to digital sound signals and the concepts of digital sound are presented. The basic techniques of sound composition and computer-assisted music composition are analyzed and taught. Typical examples of digital sound design and sound processing systems are presented and the ways and tools for controlling these systems and the MIDI and OSC communication protocols are methodically analyzed. The history and aesthetics of algorithmic synthesis are examined and its strategies are analyzed. The concepts of sound control and sound interaction, its aesthetic and historical development and the conditions of interaction between man and machine are described in detail. Finally, an attempt is made to formulate an opinion on future developments in the art of computer music composition.