

M1. MUSIC SESSION 1**M1.9 Sever Tipei***Quilt*

Quilt, for fixed media, is a computer-assisted composition that explores - in order - three sound synthesis methods: granular, additive, and FM - all realized with DISSCO, a Digital Instrument for Composition and Sound Synthesis developed at the Computer Music Project of the University of Illinois and Argonne National Laboratory. Similar to a Haiku, the first line contains five elements, the second seven, and the third again five, creating a quilt of seventeen juxtaposed textures.

Duration: 3' 00"

Year of Composition: 2015

Sever Tipei was born in Bucharest, Romania, immigrated to the United States in 1972 and became a U.S. citizen in 1978. He holds degrees in composition from the University of Michigan and in piano performance from the Bucharest Conservatory (now National University of Music at Bucharest). Sever Tipei has been teaching since 1978 at the University of Illinois School of Music where he manages the Computer Music Project . of the UIUC Experimental Music Studios . MP1, his program for computer-assisted composition in use between 1973 and 1998, was the first such program to be implemented on a supercomputer (NCSA 's CRAY X-MP), in 1986. Sever Tipei also had a Faculty Appointment (visiting scientist) at the Argonne National Laboratory between 1994 and 2003. In collaboration with Hans Kaper, Senior Mathematician (now retired), at Argonne Tipei worked on developing an Environment for Music Composition (EMC), that included software for composition, sound synthesis, automatic music notation, and visualization of music in a virtual environment. Tipei and Kaper have also pursued the sonification of complex scientific data. A more recent project, DISSCO, a Digital Instrument for Sound Synthesis and Composition, available on sourceFORGE.net represents a unified approach to composition and sound synthesis.

Tipei regards the computer as a collaborator whose skills and abilities complement those of the human artist. He sees the composition of music both as an experimental and a speculative endeavor that delivers a particular world view.