

SPECIAL THANKS

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MuMe 2019 Concert

Time & location:

June 17, 2019. (Monday) 8 PM

Cone Building, UNC Charlotte

Musical Metacreation: A party of musicians, scientists, engineers, and inventors who have the great minds to create machines that can create music. It is the creation of creativity itself — meta-creation, the ultimate creation.

MuMe 2019 Music Program

Grammars On A Ground..... Robert Keller

An interactive demonstration of a form of live coding using musical grammars. The work is fundamentally improvisational, involving three levels of improvisation:

1. Grammars in the ImproVisor software framework.
2. Performance in livecoding the grammars.
3. Requests from the audience provide additional nuance.

Over a background of a chord progression with piano, bass, and drums, the melody is modified continuously due to the probabilistic nature of the grammar. During playing, the performer will modify the grammar by live coding, usually in such a way that the resulting melody becomes more complex and interesting.

lichens Benjamin Carey

lichens is a work for improvising saxophonist and audio-visual system. The work places the performer in a symbiotic relationship with a living audio-visual object, where both improviser and system learn from and adapt to each other in performance. This conception of human-machine interactivity is modelled upon the natural process of symbiosis, with the title 'lichens' referring to a composite organism exhibiting a symbiotic relationship between a fungus and algae.

Machined Bells..... Benjamin Smith

Bells have served ceremonial and ritual roles in human societies for centuries: as symbols for inspiration, as calls to worship, as markers of celebration and solemnity, and to declare the passing of the hours. An ensemble of artificial agents, improvising together to create the musical fabric, generate this work live. The whole is 'conducted' by a meta-agent that listens to the work as it unfolds, directing 4 neural network based agents that each have 64 granular synthesis voices at their disposal.

Query-based Deep Composition..... Shlomo Dubnov

The piece will be generated by a neural network that was trained on a corpus of piano works by Sergei Prokofiev. Using a combination of energy-based deep neural networks for learning of musical surface, and predictive time based models, the proposed pieces will explore time-predictability and surface complexity trade-offs as a music composition principle.

Unlike most other common neural music works that explore stylistic imitation by a learning machine, the impetus here is to provide a study of yet unimagined possibilities of interaction with a complex machine learning system, realized in a series of short pieces, each with a different form, texture and character.