EvoMUSART Programme

Wednesday 8 April

1120-1300 Session 1 : Evolution Everywhere: Drawing, Design, Games and Voice
Session chair, Adrian Carballal

Avoidance Drawings Evolved Using Virtual Drawing Robots
Gary Greenfield

Evolving Diverse Design Populations using Fitness Sharing and Random Forest based Fitness Approximation
Kate Reed, Duncan Gillies

AudioInSpace: A Proof-of-Concept Exploring the Creative Fusion of Generative Audio, Visuals and Gameplay
Amy K. Hoover, William Cachia, Antonios Liapis, Georgios N. Yannakakis

Towards an Evolutionary Computational Approach to Articulatory Vocal Synthesis with PRAAT
Jared Drayton, Eduardo Miranda

1415-1555 Session 2 : Bio-inspired Algorithms as Composers
Session chair, João Nuno

The Sound Digestive System: a Strategy for Music and Sound Composition
Juan Manuel Escalante

Toward Certain Sonic Properties of an Audio Feedback System by Evolutionary Control of Second-Order Structures
Seunghun Kim, Juhan Nam, Graham Wakefield

Generative Music with Stochastic Diffusion Search
Asmaa Majid al-Rifaie, Mohammad Majid al-Rifaie

Music with Unconventional Computing: Towards a Step Sequencer From Plasmodium of Physarum Polycephalum
Edward Braund, Eduardo Miranda

1620-1800 Session 3 : Best Paper Candidates
Session chair, Colin Johnson

Interior Illumination Design Using Genetic Programming
Kelly Moylan, Brian Ross

Moody Music Generator: Characterising Control Parameters Using Crowdsourcing
Marco Scirea, Julian Togelius, Mark Nelson

Evotype: Evolutionary Type Design
Tiago Martins, João Correia, Ernesto Costa, Penousal Machado

Lichtsuchende: Exploring the Emergence of a Cybernetic Society
Dave Murray-Rust, Rocio von Jungenfeld

1800-1930 EvoMUSART poster session in conjunction with EvoStar posters and conference reception

Biological Content Generation: Evolving Game Terrains through Living Organisms
Wim van Eck, Maarten Lamers

DrawCompileEvolve: Sparking Interactive Evolutionary Art with Human Creations
Jinhong Zhang, Rasmus Taarnby, Antonios Liapis, Sebastian Risi

On the Stylistic Evolution of a Society of Virtual Melody Composers
Valerio Velardo, Mauro Vallati

Feature Discovery by Deep Learning for Aesthetic Analysis of Evolved Abstract Images
Allan Campbell, Vic Ciesielski, A. K. Qin

Automatic Generation of Chord Progressions with an Arti cial Immune System
Maria Navarro, Leandro Nunes de Castro, Marcelo Caetano, Gilberto Bernandes, Juan Manuel Corchado

Schemographe: Application for a New Representation Technique and Methodology of Analysis in Tonal Harmony
Anna Shvets, Myriam Desainte-Cathérine

A Genetic Programming Approach to Generating Musical Compositions
David M. Hofmann

Echo
Christoph Klemmt, Rajat Sodhi

Interpretability of Music Classification as a Criterion for Evolutionary Multi-Objective Feature Selection
Igor Vatolkin, Guenter Rudolph, Claus Weihs