



ANR-14-CE24-0002-01

**Projet DYCI2,  
WP3 Intégration, expérimentation, validation et retour d'usage  
SP4.1 Expérimentation, évaluation, dissémination**

**Rapport de livrable :**

**L4.1.3 : Workshop Music Composition and Creative Interaction with  
Machine Learning**

Livrable	Date	Contributeurs	Rédacteurs	Contenu
L4.1.3	Juillet 2018	J. Bresson (IRCAM), J. Nika (Université de La Rochelle)	J. Bresson	Organisation d'un workshop à la conférence internationale SMC (Sound and Music Computing) 2018.

**Résumé**

*Ce document rapporte les principaux éléments du workshop « Music Composition and Creative Interaction with Machine Learning » organisé en juillet 2018 à la conférence Sound and Music Computing à Limassol, Chypre.*

**Page web du workshop**

<http://repmus.ircam.fr/paco/workshop-smc>

## Workshop: Music Composition and Creative Interaction with Machine Learning

**International conference on Sound and Music Computing 2018:**

<http://smc2018.cut.ac.cy/program.html>

**Venue:** Cyprus University of Technology, Limassol

**Date:** July, 6th 2018

While making machines capable of composing using machine learning and artificial intelligence has been widely explored in computer music research, these techniques are still seldom exploited by musicians themselves as an actual tool for composition. The objective of this workshop was to present current works and perspectives in this direction, considering ML and AI-inspired techniques applied for computer-aided composition and musical human-machine interaction.

The workshop was a joint event with the Ircam-STMS PEPS project *Processus d'Apprentissage en Composition assistée par Ordinateur*. Participants of the two projects, as well as additional invited speakers, presented recent advances and perspectives on machine learning and IA applied to music composition and creative interaction.

The workshop was held in parallel to the SMC conference tracks in the main conference building, and gathered about 35 attendees.



## Presenters and topics :

- Diemo Schwarz  
IRCAM STMS

***Learning gestures from audio descriptors:  
composition and interaction.***



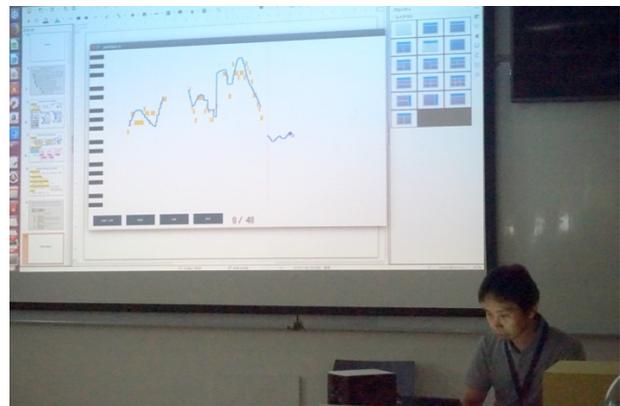
- Jérôme Nika  
Univ. de La Rochelle / IRCAM

***Symbolic human-machine musical  
interaction.***



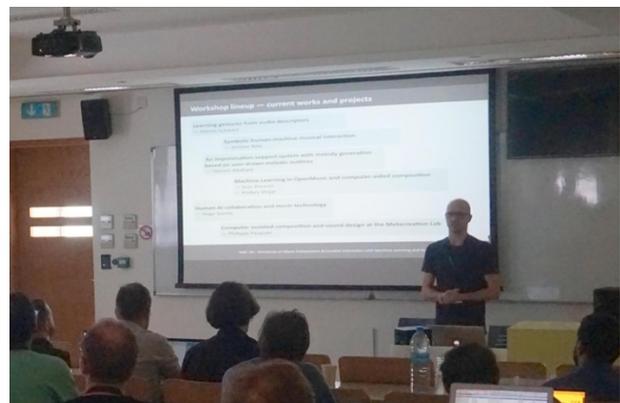
- Tetsuro Kitahara  
Nihon University, Japan

***An improvisation support system with  
melody generation based on user-drawn  
melodic outlines.***



- Jean Bresson  
IRCAM STMS

***Machine learning in the compositional  
workflow — applications in OpenMusic.***



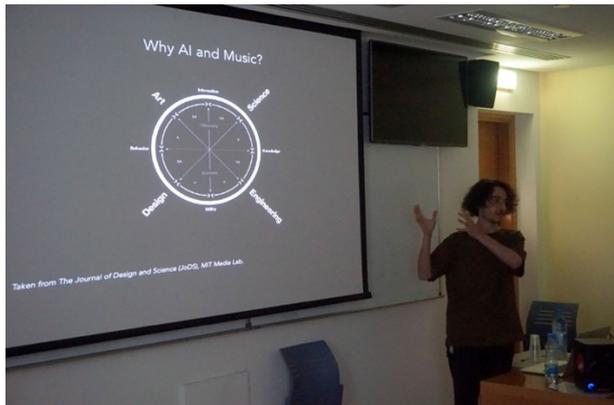
- Anders Vinjar  
Independent composer, Norway

***An exploration AI techniques for computer-aided composition.***



- Hugo Scurto  
IRCAM STMS

***Creating Human-AI Collaboration in Music Applications.***



- Philippe Pasquier  
Simon Fraser University, Canada

***Computer assisted composition and sound design at the Metacreation Lab.***

