

# HUMAN-AI MUSIC CREATION:

## Understanding the Perceptions and Experiences of Music Creators for Ethical and Productive Collaboration

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### INTRODUCTION

Musicians engage in creativity in many different ways. Our paper aims to address the impact of AI tools on the perception and work of one such domain: composition. This paper seeks to advance our understanding of AI and composition by addressing the following questions:

- In what way do creators perceive and envision the use of AI tools during their compositional process?
- How does their creative context influence their use of AI?
- What design implications can we derive to inform the creation of AI tools for music creators?

### METHODS

An exploratory multi-subject case study method for theory formulation

Cases included:

- a classical and jazz music composer
- a film and video game music composer
- an interactive media composer
- an electroacoustic composer
- a sound artist
- a DJ

### IMPLICATIONS FOR MIR

- Not all creative MIR tasks are influenced equally by Generative AI
- Creative MIR Tasks move between higher and lower levels of creation during the creative process
- Outside factors, such as personal and social context, impact how music creators will integrate AI into their process

### HUMAN-AI CREATIVE COLLABORATION MODEL

**(1) Factors on Influences** represents the various contextual factors that impact creators' perception on where AI should fall within their creative process.

**(2) Influences and Mechanisms** represent the different ways that AI could potentially be used in the creation process. Influences are those music tasks in which creatives noted either positive or negative reactions to using AI based on the level of creation as process. Mechanisms are tasks that creatives felt ok handing off to AI.

**(3) Creation as Process** emphasizes the role of iteration and thinking that happens during the process of writing music. Tasks fluctuate between higher and lower levels of process.

