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TITLE: Human-Computer Music Performance: A Report from the Field

ABSTRACT:

Abstract: Human-computer music performance (HCMP) of popular music offers interesting research challenges that have been largely overlooked. I have been building HCMP systems and performing with them for about 3 years. Solving enough problems to put an HCMP system on stage is difficult, but inevitably the experience only illuminates more problems. Often, simple ideas that work in the "lab" do not stand up to the demands of professional musicianship. Musical information overload while on stage is one example problem that calls for careful design of interfaces, data capture, and assessment procedures. I will describe systems, software components, and performances that I have organized, musical outcomes, and some scientific results. I will also describe what I have learned "in the field" about how we as researchers can make progress toward flexible HCMP for millions of musicians.