

Bringing the Human into the Loop

The increasing availability of neuro-physiological measurement devices at an always lower cost and with a decreasing level of intrusiveness, bears a so far mostly untapped potential for the BPM field both from a theoretical and from an applied perspective. This includes the development of neuro-adaptive software that responds to the emotional and cognitive state of the user, novel ways to interact with software, but also provides the basis for a more in-depth understanding of the challenges that occur when interacting with or developing process models. While there is a substantial potential of using neuro-physiological measurement devices in BPM, there are significant challenges that require inter-disciplinary efforts to be addressed. In this keynote presentation I will talk about the broader vision of using neuro-physiological measurement devices within the field of BPM, discuss associated challenges, and present existing work at the intersection of BPM, cognitive psychology, and neuroscience.

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