UC Merced

Proceedings of the Annual Meeting of the Cognitive Science Society

Title

Introducing a New JavaScript Framework for Professional Online Studies.

Permalink

https://escholarship.org/uc/item/07k4941k

Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 39(0)

Authors

Finger, Holger Diekamp, Dorena Goeke, Caspar

Publication Date

2017

Peer reviewed

Introducing a New JavaScript Framework for Professional Online Studies.

Holger Finger University of Osnabrueck

Dorena DiekampUniversity of Osnabrueck

Caspar Goeke
University of Osnabrueck

Abstract: New possibilities such as online crowdsourcing (Amazon Mechanical Turk), open data repositories (Open Science Framework), and online analysis (Ipython notebook) offer rich possibilities to improve, validate, and speed up research. However, until today there is no cross-platform integration of these subsystems. Furthermore, implementation of online studies still suffers from the complex implementation (server infrastructure, database programming, security considerations etc.). Here we present LabVanced, a JavaScript framework that constitutes methodological innovation by combining three essential aspects for online research. With our framework studies can be implemented in an intuitive graphical user interface without programming. Second, the framework takes care about participant recruitment and third, it outlines options for data visualizations and statistical analysis. Additionally, the framework can be used for sharing not only the recorded data, but also the study design and the analysis. In summary, we introduce a new powerful JavaScript framework for improving and accelerating online research.