



INVITED LECTURE

MONDAY MAY 18th 2020

17:30 – 19:00

Online access (zoom platform) : <https://authgr.zoom.us/j/95373350435>

Meeting ID: 953 7335 0435

Title: Cross-platform analytics for enhancing decision-making: Bridging analytics with HCI

Presenter: Dr **Zacharoula Papamitsiou**, Senior researcher

Department of Computer Science (IDI), Norwegian University of Science and Technology (NTNU).

Abstract: Utilizing data for driving or improving decision-making is the ultimate goal of the real world machine-learning applications, and is rapidly becoming an important topic in Human-Computer Interaction (HCI) research in recent years. Modern technologies enable data analysis in scenarios where keyboard and mouse are not available; nonverbal information such as neurophysiological information is increasingly parsed and interpreted by machines to interactively construct and refine models of human’s cognitive and affective states in HCI. Multimodal data – and in particular cross-platform neurophysiological data – hold a great potential for understanding users’ cognition, emotion, information acquisition and more. Integrating this information with fusion technologies is attractive for building robust user models as well as for developing a holistic understanding of HCI. The use of cross-platform measurements to augment human cognition promises to provide a rich and enduring approach in designing HCI interfaces and systems that appear intelligent and can enhance decision-making.



Dr Zacharoula Papamitsiou (female) is a senior researcher at the Department of Computer Science (IDI), Norwegian University of Science and Technology (NTNU). Dr. Papamitsiou holds a Ph.D. degree from the University of Macedonia, Thessaloniki, Greece, in adapting and personalizing learning services for supporting learners’ decision-making using Learning Analytics and an MSc degree in Information and Communication Technologies in Education from the Aristotle University of Thessaloniki. Her research interest is on user modeling, quantified-self technologies, multimodal learning, human-computer interaction, and autonomous learning. She is an experienced Research Assistant with a

demonstrated history of working on complex learning aspects (e.g., autonomous decision-making, engagement) using learning analytics for the quantification of learning behaviors and the interpretation of learning behavioral patterns. She has published articles in ranked international journals including Computers in Human Behavior, British Journal of Educational Technology, IEEE Transactions on Learning Technologies, Educational Technology Research and Development, and Educational Technology and Society, as well as in international conferences such as the User Modeling Adaptation and Personalization, Learning Analytics and Knowledge, European Conference on Technology Enhanced Learning. She is a professional member of ACM, IEEE Technical Committee on Learning Technology, founding member of the Trondheim-ACM-W Chapter, and has served/serves in various organization committees (e.g., associate chair, workshop chair) and program committees. Papamitsiou is also recipient of the ERCIM fellowship.