

KEY NOTE SPEECH

YANNIS DIMITRIADIS

Human-Centered Learning Analytics: Designing for balanced human and computational agency

Abstract

Although Artificial Intelligence (AI) and Learning Analytics (LA) have shown their potential in Education, stakeholders' agency seems to be threatened. On the other hand, multiple issues regarding FATE (Fairness, Accountability, Transparency and Ethics) have been raised when AI or LA-based solutions are designed and implemented. This talk discusses the quest for an optimal balance between human and computational agents, when LA tools and services are employed in a Technology Enhanced Learning (TEL) ecosystem. Through the discussion of relevant conceptual models and examples, it argues for a Human-Centered Learning Analytics (HCLA) approach, where agency and FATE principles are essential design parameters. The talk focuses especially on LA solutions that may position teachers as designers of effective interventions and orchestration actions. Selected Human-Centered Design (HCD) principles are discussed and illustrated, and directions for future research and development are formulated to overcome the main obstacles for adoption of HCD for LA.