AINA 2018 Keynote I


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**Abstract**

BigData Analytics has emerged as a disruptive technology in many fields of businesses engineering and knowledge management. Among them, BigData eLearning Analytics play an important role in Virtual Campuses and eLearning platforms. Initially, BigData eLearning Analytics served as a basis for monitoring and decision making in traditional Learning Management Systems (LMS). However, BigData eLearning Analytics is playing a crucial role in the design of new LMS systems by enabling not only learning analytics but also the A3 paradigm (Anywhere, Anytime, Awareness), emotion-aware learning, trustworthy e-assessment and other trends to maximize learner’s motivation, experiences and outcome.

In this talk we will address and discuss current and new trends and challenges arising in BigData eLearning Analytics as a cornerstone for new generation of Learning Management Systems and Online Collaboration. The talk we will focus on massive data processing and mining techniques for BigData eLearning under efficiency and scalability requirements. We will analyse and discuss techniques related to software patterns for massive data processing, and identify various issues arising in mining large data sets. We will exemplify the discussion by real life examples, large learning data sets and case studies from a real Virtual Campus.