EDISON Data Science Framework (EDSF) for Data Science curriculum design and competences management

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Time : 11:00 a.m. – 12:00 noon
Venue : Room PQ703, 7/Floor, PQ Core, Mong Man Wai Building,
        The Hong Kong Polytechnic University

Abstract

Data Science is an emerging field of science, which requires a multi-disciplinary approach and has a strong link to Big Data and data driven technologies that created transformational effect to all research and industry domains. There is a critical gap in current supply of Data Scientists and other Data Science and Analytics (DSA) enabled professions in research, industry and government. Thousands of Data Scientist and related vacancies remain unfilled for months. The presentation will introduce the EU funded EDISON project which goal is create a strong foundation for establishing the Data Science profession for European research and industry. The project has developed the EDISON Data Science Framework (EDSF) that provides a foundation for the Data Science profession definition. The EDSF includes the following core components: Data Science Competence Framework (CF-DS), Data Science Body of Knowledge (DS-BoK), Data Science Model Curriculum (MC-DS), and Data Science Professional profiles (DSP profiles). The MC-DS is built based on CF-DS and DS-BoK, where Learning Outcomes are defined based on CF-DS competences and Learning Units are mapped to Knowledge Units in DS-BoK. In its own turn, Learning Units are defined based on the ACM Classification of Computer Science (CCS2012) and reflect typical courses naming used by universities in their current programmes. EDISON Project: Building Data Science Profession http://www.edison-project.eu/

About the Speaker

Yuri Demchenko is a Senior Researcher at the System and Network Engineering of the University of Amsterdam. He graduated from the National Technical University of Ukraine "Kiev Polytechnic Institute" where he also received his PhD (Cand. of Science) degree. His main research areas include Big Data and Data Intensive Technologies and Infrastructure, Cloud and Intercloud architecture, general security architectures and distributed access control infrastructure for cloud based services and data centric applications. He is involved in number of European projects MATES, PROCESS, GEANT4, CYCLONE where he develops different elements of cloud based infrastructures for scientific research. Yuri is a coordinator of the EU funded EDISON project that has developed the EDISON Data Science Framework (EDSF) that provides a conceptual foundation and practical basis for building the Data Science profession for research, industry and business.

All are welcome!

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