4th International Conference on

Big Data Analysis and Data Mining

September 07-08, 2017 | Paris, France

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Big data analytics and visualization for healthcare – A glance into the AEGLE platform features via its presentation layer

Recently there has been great interest in health data and on how to produce value out of it so that it can support optimized integrated clinical decision making about the health of individuals and reduce cost. Many initiatives exist at the European level and worldwide, pinpointing the importance and usefulness of healthcare big data. One of these initiatives is the AEGLE EU project which aims to generate value from the healthcare data value chain data with the vision to improve translational medicine and facilitate personalized and integrated care services and thus improving overall healthcare at all levels, to promote data-driven research across Europe and to serve as an enabler technology platform, enabling business growth in the field of big data analytics for healthcare. In this talk, we will be looking into the main technical features of the AEGLE platform through its presentation layer that act as the user interface to the Big Data analytics and visualization infrastructure and algorithms of the AEGLE platform. In particular, we will be looking into the type 2 diabetes (T2D) use case and present some of the initial results of scenarios that aims at using analytics and visualization tools to discover knowledge and the causing factors of diabetes complications and their correlation to medication modality as well as biological markers while providing the potential to act as a predictive tool of such complications.

Biography

Nada Philip is an Associate Professor in the field of Mobile Health at Kingston University London. She is the Founder of Digital Media for Health Research Group. She has been involved in many national and international mHealth projects in the areas of "Chronic disease management (e.g. diabetes, COPD and Cancer), big data analytics for health, decision support systems, telehealth and telecare in developing countries, social robotics, medical video streaming, namely; OTELO, Delphi, LTE-Health, WEL-COME and AEGLE". She is the author and co-author of more than 50 journals, peer reviewed conferences and book chapters. She is a member of the review panels for many grants bodies, transactions, and conferences.

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Notes:

J Comput Eng Inf Technol
ISSN: 2324-9307

Data Mining 2017
September 07-08, 2017

Volume 6, Issue 5

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