

Big Data Analytics and Cloud Computing on Industrial Management, Information Engineering and Data Science

Khristian Edi Nugroho SOEBANDRIJA
Industrial Engineering Department,
Faculty of Engineering, Bina Nusantara University
Jakarta, Indonesia, 11480
Knugroho@Binus.Edu

Abstract

This paper elaborates big data analytics and cloud computing vis-à-vis the trilogy of industrial management, information engineering and data science. Thus, this paper provides balanced perspectives on both management and engineering. Both data analytics and cloud computing constitute solid combination vis-à-vis the mentioned trilogy. Handling, storing and analyzing data in the digital transformation era and disruptive innovation competition are the significant distinctive competitive advantages in the corporate world. Artificial Intelligence (AI) and Machine Learning (ML) applications in industrial perspectives and industrial management are deemed behind advancements in the empirical aspects of computer and network. Thus, to fill the gap, information engineering and data science in this paper, bridging the mentioned gap. The purpose of this paper is to ensure the full swing application of data analytics and cloud computing in both engineering and management perspectives in order to generate sustainable competitive advantages. Ultimately, this paper proceeds quantitative methods, and if it is deemed indispensable proceed to qualitative methods. The trilogy of this paper includes industrial management and information engineering and data science. The two latter aspects which are information engineering and data science constitutes highly demanded disciplines, as it happens to apply statistics, data mining, database management science and management information system within information engineering.

Keywords

Big Data, Data Analytics, Cloud Computing, Industrial Management, Information Engineering, Data Science