

Business Management and Business Engineering of The Internet of Things (IoT), Cybersecurity, and Additive Manufacturing

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

Abstract

This discourse elaborates the business from both perspectives vis-à-vis management and engineering. To be precise, the balances between business management and business engineering are deemed indispensable factors in this paper. Subsequently, this paper elaborates business management (BM) and business engineering (BE) in term and description of the Internet of Things (IoT), Cybersecurity, and Additive Manufacturing. The distinctive aspect in this paper focuses on the Asian's business management and business engineering, with the consideration that most of Industrialized Asian countries have contributed to the world economic growth. To some extent, there has been economic power shift from Europe and North American into Asia region. This economic power influences the BM and BE of IoT, Cybersecurity and Additive Manufacturing. IoT, Cybersecurity, and Additive Manufacturing constitutes trilogy of discussion in this paper within BM and BE. To begin with, IoT is highly demanded in which its theoretical and empirical aspects are ubiquitous, connecting wide arrays of objects to the internet through embedded technologies within global ecosystems. Subsequently, Cybersecurity throughout the digital transformation era, has been evolving in wide array of shapes that leave any BM and BE activities in corporate perspective in highly vulnerable position. Ultimately, Additive Manufacturing harnesses and intertwines prior IoT and Cybersecurity in ensuring the sustainability of BM and BE activities in corporate perspectives. The research methodology in this paper constitutes at least the approach of quantitative approach, and if it is deemed indispensable, the qualitative approach is conducted. Ultimately, the objective of this paper is intertwining the ultimate objective of ensuring sustainable competitive advantages in performing and running corporate business within trilogy of business engineering which are engineering, information technology and business itself.

Keywords

Business Management, Business Engineering, Internet of Things, Cybersecurity, Additive Manufacturing.