

MANAGING INFORMATION SECURITY TO ENABLING BIG DATA FOR ACADEMIC AND LEARNING PROCESS: GEN Y AND Z PERSPECTIVE

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ABSTRACT

Big Data is now **highly regarded and accepted** as a useful tool to help organizations manage their data and **information effectively and efficiently**. The Emerging Technology of Big Data: Its Impact as a Tool of ICT Development, **looks at the new technology that has emerged to meet the growing need and demand** and studies the impact of Big Data in several areas of today's society, including social media, business process re-engineering, science, elearning, higher education, business intelligence, and green computing. In today's modern society, information security system through **Big Data contributes to the success of organizations because it provides a solid foundation for increasing both efficiency and productivity**. Many business organizations and educational institutions realize that compliance with Big Data will affect their prospects for success.

However, Information security contributes to the success of organisations, as it gives a solid foundation to increase both efficiency and productivity. Many business organisations realise that compliance with the information security will affect their business prospects. Securing information resources from unauthorised access is extremely important. Information security needs to be managed in a proper and systematic manner as information security is quite complex. One of the

effective ways to manage information security is to comply with an information security management standard. There are a number of security standards around, however ISO 27001 is the most widely accepted one. Therefore, it is important for an organisation to implement a security standard to address information security issues comprehensively.

A new method, preferably supported by an automated tool, will be much welcomed. One of the key components for the success of information security certification is by using a framework. This framework acts as a tool to understand the process and technical aspects. Unfortunately, existing frameworks do not provide fixed and practical models for RISC (Readiness and Information Security Capabilities) investigation, which is investigation conducted to find out an organisation's readiness and information security capabilities regarding a security standard. This study proposes a novel framework called the Integrated Solution for Information Security Framework (ISF). ISF was developed to tackle issues which are not properly addressed by existing security frameworks for RISC investigation and provides an easy practical model for information system security according to ISO 27001.

About Author

Heru Susanto, PhD, is currently Head of the Information Department and at the Indonesian Institute of Sciences (LIPI), Computational Science & IT Governance Research Group, where he is also a



researcher. At present he is also an Honorary Professor at the Department of Information Management, College of Management, Tunghai University, Taichung, Taiwan. Dr. Susanto has worked as an IT professional in several roles, including Web Division Head of IT Strategic Management at Indomobil Group Corporation and Prince Muqrin Chair for Information Security Technologies at King Saud University. His research interests are in the areas of information security, IT governance, computational sciences, business process re-engineering, and e-marketing. Dr. Susanto received a

BSc in Computer Science from Bogor Agricultural University, an MBA in Marketing Management from the School of Business and Management Indonesia, an MSc in information systems from King Saud University, and a PhD in information security system from the University of Brunei and King Saud University.

Reference Book



New Book Announcement

The Emerging Technology of Big Data

Its Impact as a Tool of ICT Development

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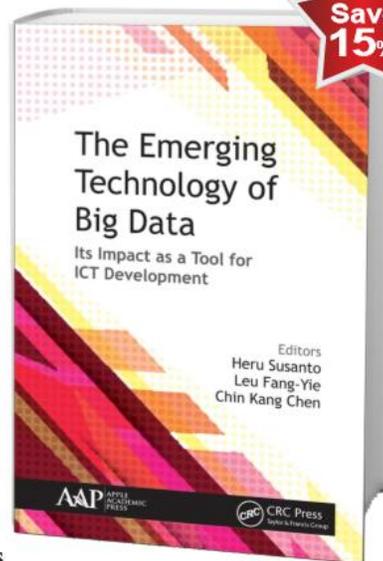
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Big Data is now highly regarded and accepted as a useful tool to help organizations manage their data and information effectively and efficiently. This new volume, **The Emerging Technology of Big Data: Its Impact as a Tool of ICT Development**, looks at the new

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