

Lecture Notes in Networks and Systems 910

Radek Silhavy
Petr Silhavy *Editors*

Data Analytics in System Engineering

Proceedings of 7th Computational
Methods in Systems and Software 2023,
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Data Analytics in System Engineering

Proceedings of 7th Computational Methods in Systems and Software 2023, Vol. 4

Editors:

- [Radek Silhavy](#),
 - [Petr Silhavy](#)
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- Presents the latest research on Software Engineering Application in Informatics
- Gathers the Proceedings of the 7th Computational Methods in Systems and Software 2023 (CoMeSySo2023) conference
- Written by experts in the field

Part of the book series: [Lecture Notes in Networks and Systems](#) (LNNS, volume 935)

Conference series link(s): [CoMeSySo: Proceedings of the Computational Methods in Systems and Software](#)

About this book

These proceedings offer an insightful exploration of integrating data analytics in system engineering. This book highlights the essential role of data in driving innovation, optimizing processes, and solving complex challenges in the field. Targeted at industry professionals, researchers, and enthusiasts, this book serves as a comprehensive resource, providing actionable insights and showcasing transformative applications of data in engineering. It is a must-read for anyone keen on understanding and participating in the ongoing evolution of system engineering in our data-centric world.

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- [Fatin Ardani Zamri](#), [Norhisham Muhamad](#) & [Miftachul Huda](#)
- Conference paper [First Online: 24 February 2024](#)
- Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 935)

Abstract

This study was carried out to examine public educator's beliefs and practices on managing Information and communication technology (ICT) skills in its usage in 21st century learning program. This study was conducted in seven secondary schools under Sarawak State Education Department Padawan District by distributing the questionnaire which has involved 69 respondents among the public educators in those schools. Retrieval results achieved were analyzed by using SPSS for Windows (version 23.0) software with descriptive method to obtain frequency, percentage, mean and standard deviation. An inference test such as Pearson Correlation was applied in this research in order to differentiate the relationship between variables. The final findings found that the level of public educator's skill through ICT usage in 21st century learning program is medium (min = 3.47, sd = 0.61). The research findings towards effectiveness through ICT application of 21st century learning program are quite high (min = 3.82, sp = 0.58). Despite that, the results also have proven that there is a high medium positive relationship between ICT usage skill with the effectiveness of teaching and learning process of 21st century learning program. Based on this study finding, it is hoped that public educators are able to enhance their skill in using latest and sophisticated applications together with students' ability in the usage of gadgets to apply for 21st century learning program teaching and learning process.

Keywords

- [Information and Communication Technology](#), [public secondary school](#), [instruction performance](#)
- [public educators' beliefs and practices](#)

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