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Panel Discussion: IS Leadership Education for Digital Transformation: Effectiveness in Enterprise Architecture and Software Design

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PANEL DISCUSSION: IS LEADERSHIP EDUCATION FOR DIGITAL TRANSFORMATION: EFFECTIVENESS IN ENTERPRISE ARCHITECTURE AND SOFTWARE DESIGN

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Abstract

The number of digital startup companies increased while many global companies has proceeded with Digital Transformation for a decade. This panel is related to the education for the practice of IS Leadership roles in Digital Transformation with a given framework of Digital Strategy and Enterprise Architecture. As members of education and collaborative research teams that have been studying and teaching the correct direction of IS leadership roles under Digital Transformation in global organizations while applying Enterprise Architecture (EA) Framework – the “Adaptive Integrated Digital Architecture Framework (AIDAF)” with Holistic EA Framework, the panelists understand that the above roles have difficulties during Digital Transformation. Thus, the panelists will discuss the theory, practice, and extent of educator’s precise guidance in the leadership roles and correct directions in Digital Transformation. This panel of senior IS educators, researchers with industry, government experience will discuss the effectiveness of “IS Leadership Education with Digital Transformation, EA and Software Design” in the new era of Digital IT.

Keywords: Digital Transformation, IS Leadership, Enterprise Architecture, Software Architecture, IS education.

Introduction and Discussion Topics

A number of digital startup companies appeared these days, where structure and functions need to address the digital business environment and holistic EA can be focused them of an organization throughout the lifecycle of startup (Bernard 2020). Many global companies have undertaken enormous changes in response to dynamic economic environments, such as the progress of new disruptive technologies, big data, globalization, shifts in customer needs, and new business models (Masuda, et al. 2021). Digital Transformation is the key driver for companies to align their Digital IT Strategies for leveraging the above-mentioned technology trends. However, existing leadership talent and skillsets should be enhanced to new global leadership capabilities for driving the digital transformation, to cope with the diversity and complexities in global societies and ecosystems (Ernest Gundling 2011).

In this panel, we propose and discuss the approach to educate desirable leadership skills and behaviors that can lead EA and Software Design under Digital Transformation successfully. Moreover, since last 3

years, the COVID19 virus had spread in the world and increased demands for digitalization. Therefore, this panel can contribute to improved understanding of leadership education demands for undertaking EA and software design in digital transformations and helping realization of digitalization in global enterprises.

The purpose of this panel is to debate the theory, practice, and extent of educator's considerations when performing leadership roles and studying their directions during Digital Transformation. This interactive panel discussion will assess various kinds of educational and professional ideas critically. Experienced and knowledgeable IS researchers and educational practitioners with diverse backgrounds covering global companies and government will participate and share their personal experiences and ideas.

Panel structure

This panel on senior IS educator and practitioner perspectives is a part of panels at SIG Education in ICIS2023, for the purpose of providing a multi-stakeholder perspective on these topics, that explores the effectiveness of the "EA and Software Architecture for Digital Transformation with IS Leadership Education."

Yoshimasa Masuda will chair a panel of senior IS educators, researchers and practitioners who will discuss the effectiveness for these IS-related educational practices, and for future graduates to get insights for the new era of Digital Transformation. The panelists and their perspectives are:

- Scott Bernard, Faculty, Carnegie Mellon University, USA
- Stephane Gagnon, Faculty, Quebec University, Canada
- Rashmi Jain, Faculty, Montclair State University, USA
- Ivar Jacobson, Faculty, Royal Institute of Technology, Essence, Sweden

The chair will start with sharing the needs to address questions by each panelist from the standpoints of their global and local situation or academic position covering the following items. We will ask the above panelists to comment on the following topics:

- How can the IS Leadership education covering Digital Transformation, EA and Software Design use digital IT technologies, AI related analytics and platforms in innovative ways?
- What kind of effectiveness and challenges are shown in these education programs when teaching in international class across institutions to ensure sustainability and ethics in long-term learning?
- What kinds of IS Strategies can contribute to innovation and technological competitiveness in Digital Transformation?
- What kinds of outcome are expected in software design under Digital Transformation while applying risk management methods and appropriate cybersecurity frameworks there?
- What kinds of education programs are effective for bachelor or master course in the Digital IT era?

Approximately 25% of the time will be allocated for panelist to share their "opening perspectives" on one or more of the above suggested questions. About 40% of the allocated time will be assigned to discussions among experts. For the remaining 35% of the allocated time, we will embrace the functionality offered by an online live session platform to actively engage participants in offering commentary. Each panelist will present and discuss necessary topics. As appropriate, after the ICIS conference, results of the panel discussion will be posted to share the insights and lessons learned with the broader IS community.

References

Bernard, S. A. 2020., "An introduction to holistic enterprise architecture," AuthorHouse

Ernest Gundling. 2011., "What is global leadership? 10 Key Behaviors," pp. 127-149.

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