


Lecture Notes in Business Information Processing

425

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Information and Knowledge Systems

Digital Technologies, Artificial Intelligence
and Decision Making

5th International Conference, ICIKS 2021
Virtual Event, June 22–23, 2021
Proceedings

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Preface

We are pleased to present the proceedings of the fifth edition of the International Conference on Information and Knowledge Systems (ICIKS 2021, previously named KMIKS), held online during June 22–23, 2021.

The International Conference on Information and Knowledge Systems (ICIKS 2021) gathered both researchers and practitioners in the fields of information systems, artificial intelligence, knowledge management and decision support. ICIKS seeks to promote discussions on various organizational, technological, and socio-cultural aspects of research in the design and use of information and knowledge systems in organizations.

Considering the large amount of data, information, and knowledge created and used in organizations, especially with the evolution of information and communications technology platforms, organizations under the process of digital transformation constantly search for innovative concepts and creative applications. More importantly, ICIKS aims beyond the predominant role of technologies, seeking discussions on the essential interactions between individuals, who are the ultimate technology users.

Organizations must be aware of the importance of data, information, human behavior, and the knowledge owned by their members. Creating activities to enhance identification, preservation, and use of this knowledge is a powerful means to improve the level of an organization's performance. Thus, organizations must invest in human interactions. Since the COVID-19 crisis, more and more of these interactions are made through digital information systems which enhance knowledge sharing and cooperation culture. This will ensure better information and knowledge creation, transfer, and preservation taking into account the security of socio-technical systems.

We encouraged submission of research related to the design, implementation, and use of information and knowledge systems that take into consideration the cultural context of the organizations, and the viewpoints of their shareholders. Researchers and practitioners were invited to share recent advances in methodologies, models and tools concerning decision processes and information and knowledge systems that contribute to the success of digital transformation in organizations.

We received 32 papers from authors in a number of different countries. After an evaluation process by the Program Committee (PC) members, 13 research papers were selected: 10 full papers and 2 short papers. Each paper was double blind reviewed by at least three reviewers. These proceedings have been organized into three parts:

- Knowledge Systems and Decision Making;
- Machine Learning, Recommender Systems, and Knowledge Systems; and
- Security, Artificial Intelligence, and Information Systems.

We also had the pleasure of hosting four keynote speakers. Tung Bui from the University of Hawai'i (USA) discussed "Decision Paradigms and Support in the Age of New Normal"; Jean-Loup Richet from the Panthéon-Sorbonne University (France)

dealt with “Security by Obscurity, a History of Secrecy”; Roland Inan, the Head of Information Systems (IS) and Information Technology (IT) Audit Assignments at FedEx (the Netherlands), dealt with “Data, knowledge management and cybersecurity in organizations”; and Leopold Larrios de Pina, the Head of Group Risk Management at Mazars (France) spoke about the “Digital era yes, but ... data awareness first! It could be an introduction before taking risks”.

ICIKS 2021 was organized in cooperation with the ACM (SIGAI and SIGMIS) and IEEE France section. It also received the support of the Amiens Business School, the University of Picardy Jules Verne, and the Paris Dauphine University (France), along with the University of Sfax (Tunisia). We are really grateful for their help and support.

We hope that this fifth edition of ICIKS was an important and privileged space for discussions and sharing experiences and innovation in the field of information and knowledge systems.

We would like to thank our Steering Committee, Program Committee and session chairs. Finally, we are grateful to the editors of the LNBIP series from Springer, Christine Reiss, Ralf Gerstner, and Alfred Hofmann, for their help in the preparation of these proceedings.

June 2021

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