EDITORIAL

The IADIS International Journal on Computer Science and Information Systems (IJCSIS) is a peer-reviewed scientific journal published exclusively in an electronic form. Its mission is to publish original contributions pertaining to the topics of Information Systems and their uses, to disseminate knowledge amongst its readers and to be a reference publication. The IADIS IJCSIS publishes original research papers and review papers, as well as auxiliary material such as short ongoing research papers, case studies, conference reports, management reports, book reviews and commentaries.

This volume (Volume 10, Issue 1 - ISSN: 1646-3692) combines six selected original papers that bring together researchers covering the wide spectrum of the area of Information Systems. The authors' contributions embrace significant research topics and intend to provide a current depiction of the research in the field while opening way to future research work.

The first paper in this issue by Diana Wilson, Denise Leahy and Dudley Dolan entitled "THE EUROPEAN E-COMPETENCE FRAMEWORK: PAST, PRESENT AND FUTURE" reports on the European e-Competence Framework (e-CF) for ICT practitioners that was created by the CEN Workshop for ICT Skills. In this paper, the authors discuss the development of this framework and illustrate how the necessity for skills in using technology has grown and developed. Since the context of business has become more complex and intricate, the ICT skills and tools must become a focal part of all organisations.

The second contribution by Wolfgang Alfred Molnar and Dieter De Smet named "BUSINESS-IT ALIGNMENT WITHIN THE LUXEMBOURGISH FINANCIAL SECTOR: A CASE-STUDY" identifies "institutionalized features, change legacies and communication as influential for business-IT alignment". In this study, the authors recognize a tripartite configuration composed of human, business and IT, when it is investigated business-IT alignment. Furthermore, transformations of companies have also deep influence on business-IT alignment.

The third paper, by Driss Benhaddou, Mohamed Riduan Abid, Ouidad Achahbar, Nacer Khalil, Tajjeeddine Rachidi and Maen Al Assaf, with the title "BIG DATA PROCESSING FOR SMART GRIDS" focuses on Smart Grids technology. With this research, the authors present a synergetic interface between SGs (smart grids) and the Cloud. They propose the use of Cloud computing to provide HPCaaS (High performance Computing as a Service) for SG Big Data processing and, consequently, define an appropriate architecture for it.

The fourth paper by Heiko Kern, Fred Stefan and Vladimir Dimitrieski entitled "INTELLIGENT AND SELF-ADAPTING INTEGRATION BETWEEN MACHINES AND INFORMATION SYSTEMS" focuses on the need for a successful integration of machines and business information systems. The authors address this integration issue and present a new approach for a structured, automated and reusable integration of information systems and machines. It is developed a framework, which allows the development of transformations between different data schemas.

The fifth paper, by Hanife Rexhepi, titled "PROCESS ORIENTED INFORMATION SYSTEMS – A KEY TO EVIDENCE BASED MEDICINE" presents and describes how a prototype visualization of a process support system can assist the availability of relevant medical knowledge in a way that effortlessly integrates with healthcare practitioners work practice, and thus facilitating healthcare practitioners to work in accordance with EBM (Evidence based medicine).

The final contribution by Hanife Rexhepi, Rose-Mharie Åhlfeldt and Anne Persson called "TOWARDS EFFECTIVE AND EFFICIENT INFORMATION SYSTEM SUPPORT FOR HEALTHCARE PROCESSES – A HEALTHCARE PRACTITIONER PERSPECTIVE" has the purpose to explore how healthcare practitioners in Sweden use information system support in their daily work activities. In addition, it is presented and demonstrated how key design principles of a process support system prototype can help healthcare practitioners in their work practice.

These papers illustrate the different facets of research done on different context of Information systems, such as ICT, business contexts and e-Health and their applications in our society and contribute with the work they have developed to the enrichment of this field. The review of the relevant literature contributes to the theoretical grounding of these areas and the innovative empirical research on different technologies creates opportunity for the development of innovative findings.

Finally, we want to our express gratitude to Dr. Alessandra Esposito (University of Salento, Italy) for her valuable help with the review process.

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