

Extended papers

from 15th International Baltic Conference
on

Digital Business and Intelligent Systems (DB&IS 2022)

University of Latvia, Riga
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Preface

This volume contains extended versions of selected papers presented at the 15th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2022) and its co-events Forum and Doctoral Consortium. The conference was held during July 4–6, 2022, in Riga, Latvia.

The Baltic DB&IS conference is organized every second year in Latvia, Lithuania and Estonia. In 2022, the conference took place for the 15th time and was jointly organized by the University of Latvia, Riga Technical University, Tallinn University of Technology, Vilnius University, Vilnius Gediminas Technical University, and the University of Tartu. Keeping up with the technological development and trends, in 2022 the conference title was updated to "International Baltic Conference on Digital Business and Intelligent Systems" continuing the series of the "Baltic Conference on Databases and Information Systems" conference, which has already been held 14 times. The new title came also with the renewed range of topics. In the framework of the conference, the forum and the consortium of doctoral students were also held and five invited papers were presented. The conference hosted invited papers delivered by Tartu University professor and co-founder of the business process analysis platform "Apromore" Marlon Dumas; the head of data resources at the European Bioinformatics Institute and senior scientist at the European Molecular Biology Laboratory Alvis Brāzma; Princeton University professor, Turing Award laureate Robert E. Tarjan; "Intertrust" chief executive officer Talal G. Shamoan; and professor Abdelkader Hameurlain of the Computer Science Research Institute of Toulouse (IRIT) at Paul Sabatier University.

Thus, from July 4 to 6, 2022, scientists from more than 10 different countries of the world came together at the University of Latvia to talk about the latest research and innovations in the field of digital business, intelligent systems, databases and information technology. The conference program was made up of both the papers of the main program of the conference, which were published in the "Communications in Computer and Information Science" series of the Springer publishing house (Ivanovic et al. 2022), and the papers of the forum and the consortium of doctoral students, which were published in the open access service "CEUR Workshop Proceedings" (Robal et al. 2022).

The International Program Committees of Baltic DB&IS 2022 conference and co-events consisted of more than 100 representatives from 36 countries all over the world and submissions from 16 countries were received. 17 papers were accepted for the main conference and 10 papers were presented as Forum papers. Also 2 doctoral papers were presented. The selection of papers for this volume was based on the opinions of the reviewers of the papers, the quality of presentations at the conference; and, finally, the quality of submitted extended papers.

We would like to express our warmest thanks to all authors who submitted extended versions of their Baltic DB&IS 2022 papers for this volume of BJMC. We are also grateful to all the members of program committees of Baltic DB&IS 2022 conference and its co-events for their contribution in the evaluation of papers.

References:

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- Robal, T., Kalibatiene, D., Karnitis, G., Ivanovic, M., Kirikova, M., Niedrite, L., Borzovs, J. *CEUR Workshop Proceedings*, Volume 3158, Proceedings of Joint International Baltic Conference on Digital Business and Intelligent Systems 2022 Doctoral Consortium and Forum, Baltic DB&IS DC and Forum 2022, Riga, 3 – 6 July 2022