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# Database Systems for Advanced Applications

25th International Conference, DASFAA 2020  
Jeju, South Korea, September 24–27, 2020  
Proceedings, Part I

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# Preface

It is our great pleasure to introduce the proceedings of the 25th International Conference on Database Systems for Advanced Applications (DASFAA 2020), held during September 24–27, 2020, in Jeju, Korea. The conference was originally scheduled for May 21–24, 2020, but inevitably postponed due to the outbreak of COVID-19 and its continual spreading all over the world. DASFAA provides a leading international forum for discussing the latest research on database systems and advanced applications. The conference’s long history has established the event as the premier research conference in the database area.

To rigorously review the 487 research paper submissions, we conducted a double-blind review following the tradition of DASFAA and constructed the large committee consisting of 16 Senior Program Committee (SPC) members and 212 Program Committee (PC) members. Each valid submission was reviewed by three PC members and meta-reviewed by one SPC member who also led the discussion with the PC members. We, the PC co-chairs, considered the recommendations from the SPC members and looked into each submission as well as its reviews to make the final decisions. As a result, 119 full papers (acceptance ratio of 24.4%) and 23 short papers were accepted. The review process was supported by the EasyChair system. During the three main conference days, these 142 papers were presented in 27 research sessions. The dominant keywords for the accepted papers included neural network, knowledge graph, time series, social networks, and attention mechanism. In addition, we included 4 industrial papers, 15 demo papers, and 3 tutorials in the program. Last but not least, to shed the light on the direction where the database field is headed to, the conference program included four invited keynote presentations by Amr El Abbadi (University of California, Santa Barbara, USA), Kian-Lee Tan (National University of Singapore, Singapore), Wolfgang Lehner (TU Dresden, Germany), and Sang Kyun Cha (Seoul National University, South Korea).

Five workshops were selected by the workshop co-chairs to be held in conjunction with DASFAA 2020: the 7th Big Data Management and Service (BDMS 2020); the 6th International Symposium on Semantic Computing and Personalization (SeCoP 2020); the 5th Big Data Quality Management (BDQM 2020); the 4th International Workshop on Graph Data Management and Analysis (GDMA 2020); and the First International Workshop on Artificial Intelligence for Data Engineering (AIDE 2020). The workshop papers are included in a separate volume of the proceedings also published by Springer in its *Lecture Notes in Computer Science* series.

We would like to thank all SPC members, PC members, and external reviewers for their hard work to provide us with thoughtful and comprehensive reviews and recommendations. Many thanks to the authors who submitted their papers to the conference. In addition, we are grateful to all the members of the Organizing Committee, and many volunteers, for their great support in the conference organization. Also, we would like to express our sincere thanks to Yang-Sae Moon for compiling all accepted

papers and for working with the Springer team to produce the proceedings. Lastly, we acknowledge the generous financial support from IITP<sup>1</sup>, Dankook University SW Centric University Project Office, DKU RICT, OKESTRO, SUNJESOFT, KISTI, LG CNS, INZENT, Begas, SK Broadband, MTDATA, WAVUS, SELIMTSG, and Springer.

We hope that the readers of the proceedings find the content interesting, rewarding, and beneficial to their research.

September 2020

Bin Cui  
Sang-Won Lee  
Jeffrey Xu Yu

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<sup>1</sup> Institute of Information & communications Technology Planning & Evaluation (IITP) grant funded by the Korea government (MSIT) (No. 2020-0-01356, 25th International Conference on Database Systems for Advanced Applications (DASFAA)).

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