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Web and Big Data

4th International Joint Conference, APWeb-WAIM 2020
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Proceedings, Part II

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Preface

This volume (LNCS 12317) and its companion volume (LNCS 12318) contain the proceedings of the 4th Asia-Pacific Web (APWeb) and Web-Age Information Management (WAIM) Joint Conference on Web and Big Data (APWeb-WAIM 2020). This joint conference aims at attracting professionals from different communities related to Web and big data who have common interests in interdisciplinary research to share and exchange ideas, experiences, and the underlying techniques and applications, including Web technologies, database systems, information management, software engineering, and big data.

APWeb-WAIM 2020 was held in Tianjin, China, during September 18–20, 2020. APWeb and WAIM are two separate leading international conferences on research, development, and applications of Web technologies and database systems. Previous APWeb conferences were held in Beijing (1998), Hong Kong (1999), Xi'an (2000), Changsha (2001), Xi'an (2003), Hangzhou (2004), Shanghai (2005), Harbin (2006), Huangshan (2007), Shenyang (2008), Suzhou (2009), Busan (2010), Beijing (2011), Kunming (2012), Sydney (2013), Changsha (2014), Guangzhou (2015), and Suzhou (2016). Previous WAIM conferences were held in Shanghai (2000), Xi'an (2001), Beijing (2002), Chengdu (2003), Dalian (2004), Hangzhou (2005), Hong Kong (2006), Huangshan (2007), Zhangjiajie (2008), Suzhou (2009), Jiuzhaigou (2010), Wuhan (2011), Harbin (2012), Beidaihe (2013), Macau (2014), Qingdao (2015), and Nanchang (2016). Starting in 2017, the two conference committees agreed to launch a joint conference. The first APWeb-WAIM conference was held in Beijing (2017), the second APWeb-WAIM conference was held in Macau (2018), and the third APWeb-WAIM conference was held in Chengdu (2019). With the increased focus on big data, the new joint conference is expected to attract more professionals from different industrial and academic communities, not only from the Asia Pacific countries but also from other continents.

The high-quality program documented in these proceedings would not have been possible without the authors who chose APWeb-WAIM for disseminating their findings. After the double-blind review process (each paper received at least three review reports), out of 259 submissions, the conference accepted 68 regular papers (acceptance rate 26.25%), 29 short research papers, and 8 demonstrations. The contributed papers address a wide range of topics, such as big data analytics, data and information quality, data mining and application, graph data and social networks, information extraction and retrieval, knowledge graph, machine learning, recommender systems, storage, indexing and physical database design, text analysis, and mining. We are deeply thankful to the Program Committee members for lending their time and expertise to the conference. The technical program also included keynotes by Prof. James Hendler (Rensselaer Polytechnic Institute, USA), Prof. Masaru Kitsuregawa (The University of Tokyo, Japan), Prof. Xuemin Lin (University of New South Wales, Australia), and Prof. Xiaofang Zhou (The University of Queensland, Australia). We are grateful to

these distinguished scientists for their invaluable contributions to the conference program.

We thank the honorary chairs (Masaru Kitsuregawa and Keqiu Li) and the general co-chairs (Xiaofang Zhou and Zhiyong Feng) for their guidance and support. Thanks also go to the workshop co-chairs (Qun Chen and Jianxin Li), panel co-chairs (Bin Cui and Weining Qian), tutorial co-chairs (Yunjun Gao and Leong Hou U), demo co-chairs (Xin Huang and Hongzhi Wang), industry co-chairs (Feifei Li and Guoliang Li), publication co-chairs (Le Sun and Yang-Sae Moon), and publicity co-chairs (Yi Cai, Yoshiharu Ishikawa, and Yueguo Chen).

We hope you enjoyed the exciting program of APWeb-WAIM 2020 as documented in these proceedings.

August 2020

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