

Fenrong Liu · Arun Anand Sadanandan ·
Duc Nghia Pham · Petrus Mursanto ·
Dickson Lukose (Eds.)

LNAI 14326

PRICAI 2023: Trends in Artificial Intelligence

20th Pacific Rim
International Conference on Artificial Intelligence, PRICAI 2023
Jakarta, Indonesia, November 15–19, 2023
Proceedings, Part II

2 Part II



 Springer

MOREMEDIA 

Lecture Notes in Computer Science

Lecture Notes in Artificial Intelligence

14326

Founding Editor

Jörg Siekmann

Series Editors

Randy Goebel, *University of Alberta, Edmonton, Canada*

Wolfgang Wahlster, *DFKI, Berlin, Germany*

Zhi-Hua Zhou, *Nanjing University, Nanjing, China*

The series Lecture Notes in Artificial Intelligence (LNAI) was established in 1988 as a topical subseries of LNCS devoted to artificial intelligence.

The series publishes state-of-the-art research results at a high level. As with the LNCS mother series, the mission of the series is to serve the international R & D community by providing an invaluable service, mainly focused on the publication of conference and workshop proceedings and postproceedings.

Fenrong Liu · Arun Anand Sadanandan ·
Duc Nghia Pham · Petrus Mursanto ·
Dickson Lukose
Editors


PRICAI 2023: Trends in Artificial Intelligence


20th Pacific Rim
International Conference on Artificial Intelligence, PRICAI 2023
Jakarta, Indonesia, November 15–19, 2023
Proceedings, Part II

Editors

Fenrong Liu 
Tsinghua University
Beijing, China

Arun Anand Sadanandan
SEEK Limited
Cremorne, NSW, Australia

Duc Nghia Pham 
MIMOS (Malaysia)
Kuala Lumpur, Malaysia

Petrus Mursanto 
Universitas Indonesia
Depok, Indonesia

Dickson Lukose 
Tabcorp Holdings Limited
Melbourne, VIC, Australia

ISSN 0302-9743 ISSN 1611-3349 (electronic)
Lecture Notes in Artificial Intelligence
ISBN 978-981-99-7021-6 ISBN 978-981-99-7022-3 (eBook)
<https://doi.org/10.1007/978-981-99-7022-3>

LNCS Sublibrary: SL7 – Artificial Intelligence

© The Editor(s) (if applicable) and The Author(s), under exclusive license
to Springer Nature Singapore Pte Ltd. 2024

Chapter “Word Segmentation of Hiragana Sentences Using Hiragana BERT” is licensed under the terms of the Creative Commons Attribution 4.0 International License (<http://creativecommons.org/licenses/by/4.0/>). For further details see license information in the chapter.

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Singapore Pte Ltd.
The registered company address is: 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore

Paper in this product is recyclable.

Preface

Greetings and welcome to 20th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2023). It was an honor to convene this significant event in a hybrid format in Jakarta, Indonesia. It was indeed a privilege for the Faculty of Computer Science at Universitas Indonesia to undertake the role of hosting these pivotal discussions that reach beyond the academic realm, advancing societies and economies across the Pacific Rim and Oceania.

This year, we received a remarkable 422 submissions: 354 for the Main track and 68 for the AI-Impact track. Every submission underwent a rigorous double-blind review process, receiving a minimum of 3 reviews, and in some cases up to 6. Throughout the process, the program committee (PC) members engaged in discussions, with additional reviews sourced as needed, prior to finalizing recommendations. The program chairs then assessed the reviews and comments, calibrating discrepancies in individual reviews and ratings to maintain decision consistency. The collective effort of the entire program committee, including chairs, 409 PC members, and 91 external reviewers, was monumental in ensuring a fair and consistent selection process. We ultimately accepted 95 regular papers and 36 short papers for oral presentation, resulting in a 22.51% acceptance rate for regular papers and an overall acceptance rate of 31.04%. Additionally, a comprehensive quality control procedure was introduced for camera-ready papers. The aim was to prompt authors to incorporate the feedback provided by PC members and reviewers into their final submissions. Content similarity checks were also performed to ensure that the similarity rate did not exceed 15%.

The technical program was comprehensive and intellectually engaging, featuring five workshops, nine tutorials, two panel discussions, and the main conference sessions. All regular and short papers were orally presented over three days in parallel and in topical program sessions. We were honored to have some of the brightest minds in AI to share their insights and enrich our collective understanding: Thomas Anton Kochan (Massachusetts Institute of Technology, USA), Hanna Kurniawati (Australian National University, Australia), Anand Rao (Carnegie Mellon University, USA), and Geoff Webb (Monash University, Australia).

A heartfelt thanks was expressed towards the organizing committee for their tireless and unwavering efforts that facilitated the success of this event. A special recognition to Adila Alfa Krisnadhi for his leadership on local arrangements. We would also like to acknowledge our workshop and tutorial organizers, who formed the core of our technical program. These dedicated individuals brought a diverse range of expertise that promised to deepen our exploration of AI technologies.

We would like to thank our advisory board members for their invaluable guidance during the planning stages. A special recognition to Abdul Sattar for his extraordinary contribution towards planning, execution, and a conference site visit that contributed

to the success of PRICAI 2023. Furthermore, we extend our gratitude to the PRICAI Steering Committee for entrusting us with the privilege of hosting this impactful conference.

We would not have been here without the support of our sponsors, whose commitment enabled us to keep pushing boundaries. To them, as well as all participants in this event, thank you.

As we delved into the various topics that PRICAI 2023 had to offer, let us remind ourselves that our deliberations have a lasting impact on the future of AI in the Pacific Rim and beyond. We genuinely hope that our time spent at PRICAI 2023 will pave the way for innovations that are both groundbreaking and beneficial.

November 2023

Fenrong Liu
Arun Anand Sadanandan
Duc Nghia Pham
Dickson Lukose
Petrus Mursanto

Organization

PRICAI Steering Committee

Steering Committee

Quan Bai	University of Tasmania, Australia
Tru Hoang Cao	University of Texas Health Science Center at Houston, USA
Xin Geng	Southeast University, China
Guido Governatori	Reasoning Research Institute, Australia
Takayuki Ito	Kyoto University, Japan
Byeong-Ho Kang	University of Tasmania, Australia
M. G. M. Khan	University of the South Pacific, Fiji
Sankalp Khanna	CSIRO Australian e-Health Research Centre, Australia
Fenrong Liu	Tsinghua University, China
Dickson Lukose	Tabcorp Holdings Ltd., Australia
Hideyuki Nakashima	Sapporo City University, Japan
Abhaya Nayak	Macquarie University, Australia
Seong Bae Park	Kyung Hee University, South Korea
Duc Nghia Pham	MIMOS Berhad, Malaysia
Abdul Sattar	Griffith University, Australia
Alok Sharma	RIKEN, Japan & University of the South Pacific, Fiji
Thanaruk Theeramunkong	Thammasat University, Thailand
Zhi-Hua Zhou	Nanjing University, China

Honorary Members

Randy Goebel	University of Alberta, Canada
Tu-Bao Ho	Japan Advanced Institute of Science and Technology, Japan
Mitsuru Ishizuka	University of Tokyo, Japan
Hiroshi Motoda	Osaka University, Japan
Geoff Webb	Monash University, Australia
Albert Yeap	Auckland University of Technology, New Zealand
Byoung-Tak Zhang	Seoul National University, South Korea
Chengqi Zhang	University of Technology Sydney, Australia

Conference Organizing Committee

General Chairs

Dickson Lukose	Tabcorp Holdings Ltd., Australia
Petrus Mursanto	Universitas Indonesia, Indonesia

Program Chairs

Fenrong Liu	Tsinghua University, China
Arun Anand Sadanandan	SEEK, Australia
Duc Nghia Pham	MIMOS Berhad, Malaysia

Local Organizing Chair

Adila Alfa Krisnadhi	Universitas Indonesia, Indonesia
----------------------	----------------------------------

Workshop Chairs

Evi Yulianti	Universitas Indonesia, Indonesia
Takahiro Uchiya	Nagoya Institute of Technology, Japan

Tutorial Chairs

Fariz Darari	Universitas Indonesia, Indonesia
M. A. Hakim Newton	University of Newcastle, Australia

Publicity Chairs

Panca Hadi Putra	Universitas Indonesia, Indonesia
Md Khaled Ben Islam	Griffith University, Australia

Advisory Board

Abdul Sattar	Griffith University, Australia
Hammam Riza	KORIKA; University of Syiah Kuala, Indonesia
Patricia Anthony	Lincoln University, New Zealand
Jirapun Daengdej	Merlin's Solutions International, Thailand
Seong Bae Park	Kyung Hee University, South Korea
M. G. M. Khan	University of the South Pacific, Fiji

Qingliang Chen	Jinan University, China
Takayuki Ito	Kyoto University, Japan
Tru Hoang Cao	University of Texas Health Science Center at Houston, USA
Sankalp Khanna	CSIRO Australian e-Health Research Centre, Australia
Stéphane Bressan	National University of Singapore, Singapore
Hideyuki Nakashima	Sapporo City University, Japan

Program Committee

Tooba Aamir	Data61, CSIRO, Australia
Azizi Ab Aziz	Universiti Utara Malaysia, Malaysia
Taufik Abidin	Universitas Syiah Kuala, Indonesia
Kiki Adhinugraha	La Trobe University, Australia
Martin Aleksandrov	Freie Universität Berlin, Germany
Hissah Alotaibi	University of Melbourne, Australia
Sagaya Amalathas	University of Southampton, Malaysia
Galia Angelova	Bulgarian Academy of Sciences, Bulgaria
Patricia Anthony	Lincoln University, New Zealand
Ryuta Arisaka	Kyoto University, Japan
Mohammad Arshi Saloot	MIMOS Berhad, Malaysia
Siti Liyana Azman	International Islamic University Malaysia, Malaysia
Mohamed Jaward Bah	Zhejiang Lab, China
Quan Bai	University of Tasmania, Australia
Thirunavukarasu Balasubramaniam	Queensland University of Technology, Australia
Arishnil Kumar Bali	University of the South Pacific, Fiji
Vishnu Monn Baskaran	Monash University, Malaysia
Chutima Beokhaimook	Rangsit University, Thailand
Pascal Bercher	Australian National University, Australia
Ateet Bhalla	Independent Technology Consultant, India
Hanif Bhuiyan	Monash University, Australia
Ran Bi	Dalian University of Technology, China
Thomas Bolander	Technical University of Denmark, Denmark
Chih How Bong	Universiti Malaysia Sarawak, Malaysia
Aida Brankovic	CSIRO, Australia
Chenyang Bu	Hefei University of Technology, China
Agus Buono	Bogor Agriculture University, Indonesia
Xiongcai Cai	University of New South Wales, Australia

Jian Cao	Shanghai Jiao Tong University, China
Tru Cao	University of Texas Health Science Center at Houston, USA
Sixian Chan	Zhejiang University of Technology, China
Narayan Changder	National Institute of Technology Durgapur, India
Hutchatai Chanlekha	Kasetsart University, Thailand
Kaylash Chaudhary	University of the South Pacific, Fiji
Bincai Chen	Dalian University of Technology, China
Gang Chen	Victoria University of Wellington, New Zealand
Liangyu Chen	East China Normal University, China
Qi Chen	Victoria University of Wellington, New Zealand
Rui Chen	Nankai University, China
Siqi Chen	Tianjin University, China
Songcan Chen	Nanjing University of Aeronautics and Astronautics, China
Tingxuan Chen	Central South University, China
Weitong Chen	University of Adelaide, Australia
Weiwei Chen	Sun Yat-sen University, China
Wu Chen	Southwest University, China
Yakun Chen	University of Technology Sydney, Australia
Yingke Chen	Northumbria University, UK
Wai Khuen Cheng	Universiti Tunku Abdul Rahman, Malaysia
Yihang Cheng	Tianjin University, China
Boonthida Chiraratanasopha	Yala Rajabhat University, Thailand
Cody Christopher	Data61, CSIRO, Australia
Jinmiao Cong	Dalian University of Technology, China
Dan Corbett	University of Sydney, Australia
Zhihong Cui	Shandong University, China
Jirapun Daengdej	Assumption University of Thailand, Thailand
Li Dai	Zaozhuang University, China
Fariz Darari	Universitas Indonesia, Indonesia
Iman Dehzangi	Rutgers University, USA
Zelin Deng	Changsha University of Science and Technology, China
Chandra Kusuma Dewa	Universitas Islam Indonesia, Indonesia
Sarinder Kaur Dhillon	Universiti Malaya, Malaysia
Shiyao Ding	Kyoto University, Japan
Zheng Dong	Baidu, China
Shyamala Doraisamy	University Putra Malaysia, Malaysia
Ellouze Ellouze	University of Sfax, Tunisia
Uzoamaka Ezeakunne	Florida State University, USA
Lei Fan	University of New South Wales, Australia

Chastine Faticah	Institut Teknologi Sepuluh Nopember, Indonesia
Shanshan Feng	Shandong Normal University, China
Xiao Feng	University of Electronic Science and Technology of China, China
Valnir Ferreira Jr.	Independent Consultant, Australia
Muhammad Firoz-Mridha	American International University-Bangladesh, Bangladesh
Tim French	University of Western Australia, Australia
Xiaoxuan Fu	China University of Political Science and Law, China
Somchart Fugkeaw	Thammasat University, Thailand
Katsuhide Fujita	Tokyo University of Agriculture and Technology, Japan
Naoki Fukuta	Shizuoka University, Japan
Hua Leong Fwa	Singapore Management University, Singapore
Marcus Gallagher	University of Queensland, Australia
Dragan Gamberger	Ruder Bošković Institute, Croatia
Jian Gao	Northeast Normal University, China
Xiaoying Gao	Victoria University of Wellington, New Zealand
Xin Geng	Southeast University, China
Yasmeen George	Monash University, Australia
Sujata Ghosh	Indian Statistical Institute, India
Michael Granitzer	University of Passau, Germany
Alban Grastien	Australian National University, Australia
Charles Gretton	Australian National University, Australia
Wen Gu	Japan Advanced Institute of Science and Technology, Japan
Jiawei Guo	Shenzhen Institute of Artificial Intelligence and Robotics for Society, China
Avisek Gupta	TCG CREST, India
Fikret Gurgen	Boğaziçi University, Turkey
Julian Gutierrez	Monash University, Australia
Rafik Hadfi	Kyoto University, Japan
Misgina Tsighe Hagos	University College Dublin, Ireland
Mourad Hakem	Université de Franche-Comté, France
Bavly Hanna	University of Technology Sydney, Australia
Jawad Ahmad Haqbeen	Kyoto University, Japan
Md Mahmudul Hasan	University of New South Wales, Australia
Mehedi Hasan	BRAC University, Bangladesh
David Hason Rudd	University of Technology Sydney, Australia
Hamed Hassanzadeh	CSIRO, Australia
Tessai Hayama	Nagaoka University of Technology, Japan

Priyanto Hidayatullah	Politeknik Negeri Bandung, Indonesia
Linlin Hou	Zhejiang Lab, China
Shuyue Hu	Shanghai Artificial Intelligence Laboratory, China
Jiwei Huang	China University of Petroleum, China
Victoria Huang	National Institute of Water and Atmospheric Research, New Zealand
Xiaodi Huang	Charles Sturt University, Australia
Nguyen Duy Hung	Thammasat University, Thailand
Huan Huo	University of Technology Sydney, Australia
Habibi Husain Arifin	Assumption University of Thailand, Thailand
Du Huynh	University of Western Australia, Australia
Van Nam Huynh	Japan Advanced Institute of Science and Technology, Japan
Masashi Inoue	Tohoku Institute of Technology, Japan
Md Khaled Ben Islam	Griffith University, Australia
Md. Saiful Islam	University of Newcastle, Australia
Takayuki Ito	Kyoto University, Japan
Sanjay Jain	National University of Singapore, Singapore
Mehrdad Jalali	Karlsruhe Institute of Technology, Germany
Fatemeh Jalalvand	Data61, CSIRO, Australia
Wojtek Jamroga	Polish Academy of Sciences, Poland
Wisnu Jatmiko	Universitas Indonesia, Indonesia
Jingjing Ji	Huazhong University of Science and Technology, China
Liu Jiahao	Southwest University, China
Guifei Jiang	Nankai University, China
Jianhua Jiang	Jilin University of Finance and Economics, China
Ting Jiang	Zhejiang Lab, China
Yuncheng Jiang	South China Normal University, China
Nattagit Jiteurtragool	King Mongkut's University of Technology North Bangkok, Thailand
Rui-Yang Ju	Tamkang University, Taiwan
Iman Kamkar	Deloitte, Australia
Hideaki Kanai	Japan Advanced Institute of Science and Technology, Japan
Rathimala Kannan	Multimedia University, Malaysia
Natsuda Kaothanthong	Thammasat University, Thailand
Jessada Karnjana	National Electronics and Computer Technology Center, Thailand
Shohei Kato	Nagoya Institute of Technology, Japan
Natthawut Kertkeidkachorn	Japan Advanced Institute of Science and Technology, Japan
Nor Khalid	Universiti Teknologi MARA, Malaysia

Jane Jean Kiam	Universität der Bundeswehr München, Germany
Huan Koh	Monash University, Australia
Kazunori Komatani	Osaka University, Japan
Sébastien Konieczny	French National Centre for Scientific Research, France
Harindu Korala	Monash University, Australia
Fajri Koto	Mohamed bin Zayed University of Artificial Intelligence, United Arab Emirates
Adila A. Krisnadhi	Universitas Indonesia, Indonesia
Alfred Krzywicki	University of Adelaide, Australia
Charles Kuan	Tabcorp Holdings Limited, Australia
Li Kuang	Central South University, China
Dinesh Kumar	University of the South Pacific, Fiji
Shiu Kumar	Fiji National University, Fiji
Young-Bin Kwon	Chung-Ang University, South Korea
Ho-Pun Lam	Independent Researcher, Australia
Davide Lanti	Free University of Bozen-Bolzano, Italy
Roberto Legaspi	KDDI Research, Japan
Dazhu Li	Chinese Academy of Sciences, China
Gang Li	Deakin University, Australia
Guangliang Li	Ocean University of China, China
Guoqiang Li	Shanghai Jiao Tong University, China
Ren Li	Chongqing Jiaotong University, China
Tianrui Li	Southwest Jiaotong University, China
Weihua Li	Auckland University of Technology, New Zealand
Yicong Li	University of Technology Sydney, Australia
Yuan-Fang Li	Monash University, Australia
Xiubo Liang	Zhejiang University, China
Ariel Liebman	Monash University, Australia
Alan Wee-Chung Liew	Griffith University, Australia
Donghui Lin	Okayama University, Japan
Chanjuan Liu	Dalian University of Technology, China
Di Liu	Inner Mongolia University, China
Fenrong Liu	Tsinghua University, China
Guanfeng Liu	Macquarie University, Australia
Hao Liu	Hong Kong University of Science and Technology, China
Jinghui Liu	University of Melbourne, Australia
Kangzheng Liu	Huazhong University of Science and Technology, China
Xinpeng Liu	Dalian University of Technology, China
Yang Liu	Dalian University of Technology, China

Yue Liu	Data61, CSIRO, Australia
Sin Kit Lo	Data61, CSIRO, Australia
Emiliano Lorini	French National Centre for Scientific Research, France
Qinghua Lu	Data61, CSIRO, Australia
Dickson Lukose	Tabcorp Holdings Limited, Australia
Jieting Luo	Zhejiang University, China
Sreenivasan M.	International Institute of Information Technology, India
Chuan Ma	Zhejiang Lab, China
Hui Ma	Victoria University of Wellington, New Zealand
Pathum Chamikara Mahawaga Arachchige	Data61, CSIRO, Australia
Michael Maher	Reasoning Research Institute, Australia
Vikash Maheshwari	Universiti Teknologi PETRONAS, Malaysia
Rohana Mahmud	Universiti Malaya, Malaysia
Eric Martin	University of New South Wales, Australia
Sanparith Marukatat	National Electronics and Computer Technology Center, Thailand
Atiya Masood	Iqra University, Pakistan
Nur Ulfa Maulidevi	Bandung Institute of Technology, Indonesia
Alan Mccabe	Griffith University, Australia
Md Humaion Kabir Mehedi	BRAC University, Bangladesh
Qingxin Meng	University of Nottingham - Ningbo, China
Jian Mi	Yangzhou University, China
Lynn Miller	Monash University, Australia
Muhammad Syafiq Mohd Pozi	Universiti Utara Malaysia, Malaysia
Kristen Moore	Data61, CSIRO, Australia
Fernando Mourao	SEEK, Australia
Lailil Muflikhah	Universitas Brawijaya, Indonesia
Ganesh Neelakanta Iyer	National University of Singapore, Singapore
M. A. Hakim Newton	University of Newcastle, Australia
Phi Le Nguyen	Hanoi University of Science and Technology, Vietnam
Thanh Thi Nguyen	Deakin University, Australia
Nianwen Ning	Henan University, China
Hussain Nyeem	Military Institute of Science and Technology, Bangladesh
Kouzou Ohara	Aoyama Gakuin University, Japan
Nurul Aida Osman	Universiti Teknologi PETRONAS, Malaysia
Takanobu Otsuka	Nagoya Institute of Technology, Japan
Abiola Oyegun	Birmingham City University, UK

Maurice Pagnucco	University of New South Wales, Australia
Shirui Pan	Griffith University, Australia
Anum Paracha	Birmingham City University, UK
Anand Paul	Kyungpook National University, South Korea
Pengfei Pei	Chinese Academy of Sciences, China
Shengbing Pei	Anhui University, China
Songwen Pei	University of Shanghai for Science and Technology, China
Tao Peng	UT Southwestern Medical Center, USA
Arif Perdana	Monash University, Indonesia
Laurent Perrussel	University of Toulouse, France
Duc Nghia Pham	MIMOS Berhad, Malaysia
Ioannis Pierros	Aristotle University of Thessaloniki, Greece
Chiu Po Chan	Universiti Malaysia Sarawak, Malaysia
Thadpong Pongthawornkamol	Kasikorn Business-Technology Group, Thailand
Surya Prakash	University of the South Pacific, Fiji
Mauridhi Hery Purnomo	Institut Teknologi Sepuluh Nopember, Indonesia
Ayu Purwarianti	Bandung Institute of Technology, Indonesia
Qi Qi	Hainan University, China
Shiyong Qian	Shanghai Jiao Tong University, China
Jianglin Qiao	Western Sydney University, Australia
Chuan Qin	Baidu, China
Lyn Qiu	Shanghai Jiao Tong University, China
Joel Quinqueton	Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier, France
Teeradaj Racharak	Japan Advanced Institute of Science and Technology, Japan
Jessica Rahman	CSIRO, Australia
Mohammad Shahriar Rahman	United International University, Bangladesh
Srikari Rallabandi	Vidya Jyothi Institute of Technology, India
Tian Ran	Northwest Normal University, China
Annajiat Alim Rasel	BRAC University, Bangladesh
Mahmood Rashid	Griffith University, Australia
Md Saifullah Razali	University of Wollongong, Australia
Farid Razzak	New York University, USA
Karuna Reddy	University of the South Pacific, Fiji
Fenghui Ren	University of Wollongong, Australia
Jiankang Ren	Dalian University of Technology, China
Yongli Ren	RMIT University, Australia
Yuheng Ren	Jimei University, China
Mark Reynolds	University of Western Australia, Australia
Jia Rong	Monash University, Australia

Yi Rong	Wuhan University of Technology, China
Liat Rozenberg	Griffith University, Australia
Ji Ruan	Auckland University of Technology, New Zealand
Filip Rusak	CSIRO, Australia
Arun Anand Sadanandan	SEEK Limited, Australia
Khairun Saddami	Universitas Syiah Kuala, Indonesia
Payel Sadhukhan	TCG CREST, India
Sofia Sahab	Kyoto University, Japan
Chiaki Sakama	Wakayama University, Japan
Ario Santoso	Independent, The Netherlands
Muhamad Saputra	Monash University, Indonesia
Yunita Sari	Universitas Gadjah Mada, Indonesia
Anto Satriyo Nugroho	National Research and Innovation Agency, Indonesia
Abdul Sattar	Griffith University, Australia
Thanveer Shaik	University of Southern Queensland, Australia
Lin Shang	Nanjing University, China
Nandita Sharma	Australian Government, Australia
Dazhong Shen	University of Science and Technology of China, China
Yifan Shen	University of Illinois Urbana-Champaign, USA
Chenwei Shi	Tsinghua University, China
Kaize Shi	University of Technology Sydney, Australia
Xiaolong Shi	Guangzhou University, China
Zhenwei Shi	Beihang University, China
Kazutaka Shimada	Kyushu Institute of Technology, Japan
Yanfeng Shu	CSIRO, Australia
Harvinder Singh	Torrens University, Australia
Ronal Singh	Data61, CSIRO, Australia
Patrick Chin Hooi Soh	Multimedia University, Malaysia
Chattrakul Sombattheera	Maharakham University, Thailand
Insu Song	James Cook University, Australia
Xin Song	Hebei University, China
Pokpong Songmuang	Thammasat University, Thailand
Lay-Ki Soon	Monash University Malaysia, Malaysia
Bela Stantic	Griffith University, Australia
Markus Stumptner	University of South Australia, Australia
Guoxin Su	University of Wollongong, Australia
Ruidan Su	Shanghai Jiao Tong University, China
Xingchi Su	Zhejiang Lab, China
Jie Sun	Nanjing Xiaozhuang University, China
Xin Sun	Zhejiang Lab, China

Ying Sun	Hong Kong University of Science and Technology, China
Yongqian Sun	Nankai University, China
Boontawee Suntisrivaraporn	DTAC, Thailand
Thepchai Supnithi	National Electronics and Computer Technology Center, Thailand
Chang Wei Tan	Monash University, Australia
David Taniar	Monash University, Australia
Thitipong Tanprasert	Assumption University of Thailand, Thailand
Xiaohui Tao	University of Southern Queensland, Australia
Sotarath Thammaboosadee	Mahidol University, Thailand
Truong Thao Nguyen	National Institute of Advanced Industrial Science and Technology, Japan
Bui Thi-Mai-Anh	Institut de la Francophonie pour l'Informatique, Vietnam
Michael Thielscher	University of New South Wales, Australia
Hung Nghiep Tran	National Institute of Informatics, Japan
Jarrold Trevathan	Griffith University, Australia
Bambang Riyanto Trilaksono	Institut Teknologi Bandung, Indonesia
Bayu Trisedya	SEEK, Australia
Eric Tsui	Hong Kong Polytechnic University, China
Shikui Tu	Shanghai Jiao Tong University, China
Ayad Turkey	University of Sharjah, United Arab Emirates
Takahiro Uchiya	Nagoya Institute of Technology, Japan
Khimji Vaghjiani	Torrens University, Australia
Hans van Ditmarsch	University of Toulouse, France
Miroslav Velez	Aries Design Automation, USA
Agustinus Waluyo	La Trobe University, Australia
Biao Wang	Zhejiang Lab, China
Chao Wang	HKUST Fok Ying Tung Research Institute, China
Chen Wang	National Institute of Water and Atmospheric Research, New Zealand
Hao Wang	Monash University, Australia
Hao Wang	Nanyang Technological University, Singapore
Li Wang	Henan University, China
Shuxia Wang	Northwestern Polytechnical University, China
Weiqing Wang	Monash University, Australia
Xiangmeng Wang	University of Technology Sydney, Australia
Xinxhi Wang	Shanghai University, China
Yuxin Wang	Dalian University of Technology, China
Zhen Wang	Zhejiang Lab, China
Ian Watson	University of Auckland, New Zealand

Xian Wei	East China Normal University, China
Xiao Wei	Shanghai University, China
Manuel Weiss	SEEK, Australia
Paul Weng	UM-SJTU Joint Institute, China
Derry Wijaya	Monash University Indonesia, Indonesia
Tri Kurniawan Wijaya	Huawei Ireland Research Centre, Ireland
Arie Wahyu Wijayanto	Politeknik Statistika STIS, Indonesia
Wayne Wobcke	University of New South Wales, Australia
Daphne Wong-A-Foe	Leiden University, The Netherlands
Sartra Wongthanavasu	Khon Kaen University, Thailand
Brendon J. Woodford	University of Otago, New Zealand
Huiwen Wu	Ant Group, China
Ou Wu	Tianjin University, China
Shiqing Wu	University of Technology Sydney, Australia
Xing Wu	Shanghai University, China
Yutong Wu	CSIRO, Australia
Pierre-Henri Wuillemin	LIP6, Sorbonne University, France
Zhanhao Xiao	Guangzhou University, China
Zhuoyu Xiao	Hunan Industry Polytechnic, China
Kaibo Xie	University of Amsterdam, The Netherlands
Ming Xu	Xi'an Jiaotong-Liverpool University, China
Shuxiang Xu	University of Tasmania, Australia
Yongxiu Xu	Chinese Academy of Sciences, China
Zenghui Xu	Zhejiang Lab, China
Hui Xue	Southeast University, China
Chao Yang	University of Technology Sydney, Australia
Chunming Yang	Southwest University of Science and Technology, China
Fengyu Yang	Nanchang Hangkong University, China
Haoran Yang	University of Technology Sydney, Australia
Liu Yang	Central South University, China
Tianle Yang	Osaka University, Japan
Yi Yang	Hefei University of Technology, China
Yuan Yao	University of Nottingham - Ningbo, China
Roland Yap	National University of Singapore, Singapore
Xuefei Yin	Griffith University, Australia
Dianer Yu	University of Technology Sydney, Australia
Hang Yu	Shanghai University, China
Ting Yu	Zhejiang Lab, China
Youren Yu	Beijing Information Science and Technology University, China

Weiwei Yuan	Nanjing University of Aeronautics and Astronautics, China
Lin Yue	University of Newcastle, Australia
Evi Yulianti	Universitas Indonesia, Indonesia
Intan Nurma Yulita	Padjadjaran University, Indonesia
Nayyar Zaidi	Deakin University, Australia
Chengwei Zhang	Dalian Maritime University, China
Daokun Zhang	Monash University, Australia
Du Zhang	California State University, USA
Haibo Zhang	Kyushu University, Japan
Haijun Zhang	Harbin Institute of Technology, China
Huan Zhang	China University of Geosciences, China
Le Zhang	University of Science and Technology of China, China
Leo Zhang	Griffith University, Australia
Liyang Zhang	China University of Petroleum, China
Min-Ling Zhang	Southeast University, China
Mingyue Zhang	Southwest University, China
Peng Zhang	Shandong University, China
Qi Zhang	University of Science and Technology of China, China
Shenglin Zhang	Nankai University, China
Wei Emma Zhang	University of Adelaide, Australia
Wen Zhang	Beijing University of Technology, China
Xianhui Zhang	Hangzhou Normal University, China
Xiaobo Zhang	Southwest Jiaotong University, China
Xinghua Zhang	Chinese Academy of Sciences, China
Yuhong Zhang	Hefei University of Technology, China
Yunfeng Zhang	Shandong University of Finance and Economics, China
Zili Zhang	Deakin University, Australia
Dengji Zhao	ShanghaiTech University, China
Ruilin Zhao	Huazhong University of Science and Technology, China
Yijing Zhao	Chinese Academy of Sciences, China
Jianyu Zhou	Nankai University, China
Shuigeng Zhou	Fudan University, China
Xin Zhou	Nanyang Technological University, Singapore
Yun Zhou	National University of Defense Technology, China
Enqiang Zhu	Guangzhou University, China
Guohun Zhu	University of Queensland, Australia

Jingwen Zhu
Liang Zhu
Nengjun Zhu
Xingquan Zhu
Yanming Zhu

Nankai University, China
Hebei University, China
Shanghai University, China
Florida Atlantic University, USA
Griffith University, Australia

Additional Reviewers

Angelov, Zhivko
Azam, Basim
Burgess, Mark
Cao, Xuemei
Chan, Chee-Yong
Chandra, Abel
Chen, Xiaohong
Clifton, Ava
Duan, Jiaang
Ebrahimi, Ali
Fang, Han
Fei, Wu
Fodor, Gabor Adam
Folkman, Lukas
Geng, Chuanxing
Guo, Ruoyu
Guo, Siyuan
Hammond, Lewis
Han, Xin
Hao, Chen
Haruta, Shuichiro
He, Haoyu
He, Tao
He, Zhengqi
Hu, Han Wen
Hua, Qin
Hua, Yuncheng
Huang, Renhao
Hung, Nguyen
Jiang, Zhaohui
Li, Jingyang
Li, Xiang
Liga, Davide
Lin, Songtuan
Liu, Chuan

Liu, Hongquan
Liu, Yongchang
Liu, Yutao
Liu, Zhaorui
Ma, Jiaxuan
Mataeimoghadam, Fereshteh
Mayer, Wolfgang
Mezza, Stefano
Mohamed Muzammil, Mohamed
Mufassirin
Mu, Chunjiang
Nikafshan Rad, Hima
Nwe, Hlaing Myat
Pan, Chaofan
Peng, Lilan
Perera, Isuri
Rahman, Julia
Reddy, Emmenual
Ren, Siyue
Ren, Yixin
Schwenker, Friedhelm
Selway, Matt
Semenov, Ivan
Shiri, Fatemeh
Singh, Priyanka
Singh, Satyanand
Smith, Jeff
Song, Zhihao
Soni, Bhanu Pratap
Tan, Hongwei
Tang, Jiaqi
Viriyaavisuthisakul, Supatta
Wang, Luzhi
Wang, Mengyan
Wang, Xiaodan

Wang, Yunyun
Wei, Tianpeng
Wu, Lingi
Wu, Shixin
Xia, Boming
Xu, Dalai
Xu, Rongxin
Xu, Weilai
Yang, Yikun
Yao, Naimeng
Yin, Yifan

Yuan, Zixuan
Zaman, Rianon
Zhang, Denghui
Zhang, Junyu
Zhang, Lin
Zhang, Yunfei
Zhang, Zhenxing
Zhao, Zijun
Zheng, Xin
Zheng, Yizhen
Zhou, Zheng

Contents – Part II

Machine Learning/Deep Learning

A Spatial Interpolation Method Based on BP Neural Network with Bellman Equation	3
<i>Liang Zhu, Haiyang Wei, Xin Song, Yonggang Wei, and Yu Wang</i>	
Attention Auxiliary Supervision for Continuous Sign Language Recognition	16
<i>Xiaofei Qin, Junyang Kong, Changxiang He, Xuedian Zhang, Chong Ghee Lua, Sutthiphong Srigrarom, and Boo Cheong Khoo</i>	
AutoShape: Automatic Design of Click-Through Rate Prediction Models Using Shapley Value	29
<i>Yunfei Fang, Caihong Mu, and Yi Liu</i>	
Byzantine-Robust Federated Learning via Server-Side Mixtue of Experts	41
<i>Xiangyu Fan, Zheyuan Shen, Wei Fan, Keke Yang, and Jing Li</i>	
CDAN: Cost Dependent Deep Abstention Network	53
<i>Bhavya Kalra and Naresh Manwani</i>	
Learning and Regression on the Grassmannian	66
<i>Anis Fradi and Chafik Samir</i>	
Partial Multi-label Learning with a Few Accurately Labeled Data	79
<i>Haruhi Mizuguchi, Keigo Kimura, Mineichi Kudo, and Lu Sun</i>	
Shareable and Inheritable Incremental Compilation in iOOBN	91
<i>Md Samiullah, Ann Nicholson, and David Albrecht</i>	
A Dynamic Pricing Strategy in Divided Regions for Ride-Hailing	104
<i>Bing Shi, Yan Lu, and Zhi Cao</i>	
CANAMRF: An Attention-Based Model for Multimodal Depression Detection	111
<i>Yuntao Wei, Yuzhe Zhang, Shuyang Zhang, and Hone Zhang</i>	
CASSOR: Class-Aware Sample Selection for Ordinal Regression with Noisy Labels	117
<i>Yue Yuan, Sheng Wan, Chuang Zhang, and Chen Gong</i>	

Incomplete Multi-view Weak-Label Learning with Noisy Features and Imbalanced Labels	124
<i>Zhiwei Li, Zijian Yang, Lu Sun, Mineichi Kudo, and Keigo Kimura</i>	
Natural Language Processing	
A Joint Framework with Audio Generation for Rare Gunshot Event Detection	133
<i>Jun Yin, Haiyun Du, Renjie Wu, Ruidong Fang, Jucai Lin, Yun Huang, Weizhen Huang, Yapeng Mao, and Xiao Luo</i>	
Ancient Chinese Machine Reading Comprehension Exception Question Dataset with a Non-trivial Model	145
<i>Dongning Rao, Guanju Huang, and Zihua Jiang</i>	
Chinese Macro Discourse Parsing on Generative Fusion and Distant Supervision	159
<i>Longwang He, Feng Jiang, Xiaoyi Bao, Yaxin Fan, Peifeng Li, and Xiaomin Chu</i>	
GHGA-Net: Global Heterogeneous Graph Attention Network for Chinese Short Text Classification	172
<i>Meimei Li, Yuzhi Bao, Jiguo Liu, Chao Liu, Nan Li, and Shihao Gao</i>	
KSRE-CNER: A Knowledge and Semantic Relation Enhancement Framework for Chinese NER	185
<i>Jikun Dong, Kaifang Long, Jiran Zhu, Hui Yu, Chen Lv, Zengzhen Shao, and Weizhi Xu</i>	
Low-Frequency Aware Unsupervised Detection of Dark Jargon Phrases on Social Platforms	198
<i>Limei Huang, Shanshan Wang, Changlin Liu, Xueyang Cao, Yadi Han, Shaolei Liu, and Zhenxiang Chen</i>	
Multilayer Vision and Language Augmented Transformer for Image Captioning	210
<i>Qiang Su and Zhixin Li</i>	
Neural Machine Translation with an Awareness of Semantic Similarity	223
<i>Jiaxin Li, Rize Jin, Joon-Young Paik, and Tae-Sun Chung</i>	
Optimizing Answer Representation Using Metric Learning for Efficient Short Answer Scoring	236
<i>Bo Wang, Billy Dawton, Tsunenori Ishioka, and Tsunenori Mine</i>	

Prompting Generative Language Model with Guiding Augmentation for Aspect Sentiment Triplet Extraction	249
<i>Kun Huang, Yongxiu Xu, Xinghua Zhang, Wenyuan Zhang, and Hongbo Xu</i>	
Prompting GPT-3.5 for Text-to-SQL with De-semanticization and Skeleton Retrieval	262
<i>Chunxi Guo, Zhiliang Tian, Jintao Tang, Pancheng Wang, Zhihua Wen, Kang Yang, and Ting Wang</i>	
QURG: Question Rewriting Guided Context-Dependent Text-to-SQL Semantic Parsing	275
<i>Linzheng Chai, Dongling Xiao, Zhao Yan, Jian Yang, Liqun Yang, Qian-Wen Zhang, Yunbo Cao, and Zhoujun Li</i>	
Sarcasm Relation to Time: Sarcasm Detection with Temporal Features and Deep Learning	287
<i>Md Saifullah Razali, Alfian Abdul Halin, Yang-Wai Chow, Noris Mohd Norowi, and Shyamala Doraisamy</i>	
Self-agreement: A Framework for Fine-Tuning Language Models to Find Agreement Among Diverse Opinions	298
<i>Shiyao Ding and Takayuki Ito</i>	
Self-SLP: Community Detection Algorithm in Dynamic Networks Based on Self-paced and Spreading Label Propagation	310
<i>Zijing Fan and Xiangyu Du</i>	
Word Segmentation of Hiragana Sentences Using Hiragana BERT	323
<i>Jun Izutsu, Kanako Komiya, and Hiroyuki Shinnou</i>	
An Empirical Study on Context Length for Open-Domain Dialog Generation	336
<i>Xinyi Shen and Zuoquan Lin</i>	
COVER: A Heuristic Greedy Adversarial Attack on Prompt-Based Learning in Language Models	342
<i>Zihao Tan, Qingliang Chen, Wenbin Zhu, and Yongjian Huang</i>	
Few-Shot Table-to-Text Generation with Structural Bias Attention	349
<i>Di Liu, Weihua Wang, Feilong Bao, and Guanglai Gaov</i>	
Generalized Knowledge Distillation for Topic Models	355
<i>Kohei Watanabe and Koji Eguchi</i>	

Improving Speaker Recognition by Time-Frequency Domain Feature Enhanced Method	362
<i>Jin Han, Yunfei Zi, and Shengwu Xiong</i>	
Leveraging Dual Encoder Models for Complex Question Answering over Knowledge Bases	368
<i>Xin Wang, Honglian He, Yongqing Diao, and Huayi Zhan</i>	
Unsupervised Contrastive Learning of Sentence Embeddings Through Optimized Sample Construction and Knowledge Distillation	375
<i>Yan Ding, Rize Jin, Joon-Young Paik, and Tae-Sun Chung</i>	

Optimization

Automatically Choosing Selection Operator Based on Semantic Information in Evolutionary Feature Construction	385
<i>Hengzhe Zhang, Qi Chen, Bing Xue, Wolfgang Banzhaf, and Mengjie Zhang</i>	
Evolving a Better Scheduler for Diffusion Models	398
<i>Zheping Liu, Andy Song, Nasser Sabar, and Wenkai Li</i>	
Investigating the Existence of Holey Latin Squares via Satisfiability Testing ...	410
<i>Minghao Liu, Rui Han, Fuqi Jia, Pei Huang, Feifei Ma, Hantao Zhang, and Jian Zhang</i>	
Leiden Fitness-Based Genetic Algorithm with Niching for Community Detection in Large Social Networks	423
<i>Anjali de Silva, Gang Chen, Hui Ma, and Seyed Mohammad Nekooei</i>	
Non-revisiting Stochastic Search for Automatic Graph Learning	436
<i>Chenyang Bu and Hezhen Lu</i>	
Detecting AI Planning Modelling Mistakes – Potential Errors and Benchmark Domains	448
<i>Kayleigh Sleath and Pascal Bercher</i>	

Responsible AI/Explainable AI

Decision Tree Clustering for Time Series Data: An Approach for Enhanced Interpretability and Efficiency	457
<i>Masaki Higashi, Minje Sung, Daiki Yamane, Kenta Inamura, Shota Nagai, Ken Kobayashi, and Kazuhide Nakata</i>	

The Ethical Evaluation Method of Algorithmic Behavior Based
on Computational Experiments 469
Fangyi Chen, Xiao Xue, and Xiao Wang

Metrics for Evaluating Actionability in Explainable AI 481
Hissah Alotaibi and Ronal Singh

Author Index 489