

ICBDA 2024

2024 the 9th International Conference on
Big Data Analytics

ICIAI 2024

2024 the 8th International Conference on
Innovation in Artificial Intelligence

March 16-18, 2024

Waseda University, Tokyo, Japan

CONFERENCE PROGRAM



2024 the 9th International Conference on Big Data Analytics (ICBDA 2024)

2024 the 8th International Conference on Innovation in Artificial Intelligence (ICIAI 2024)

Waseda University, Tokyo, Japan

March 16-18, 2024

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Conference Venue



WASEDA
University

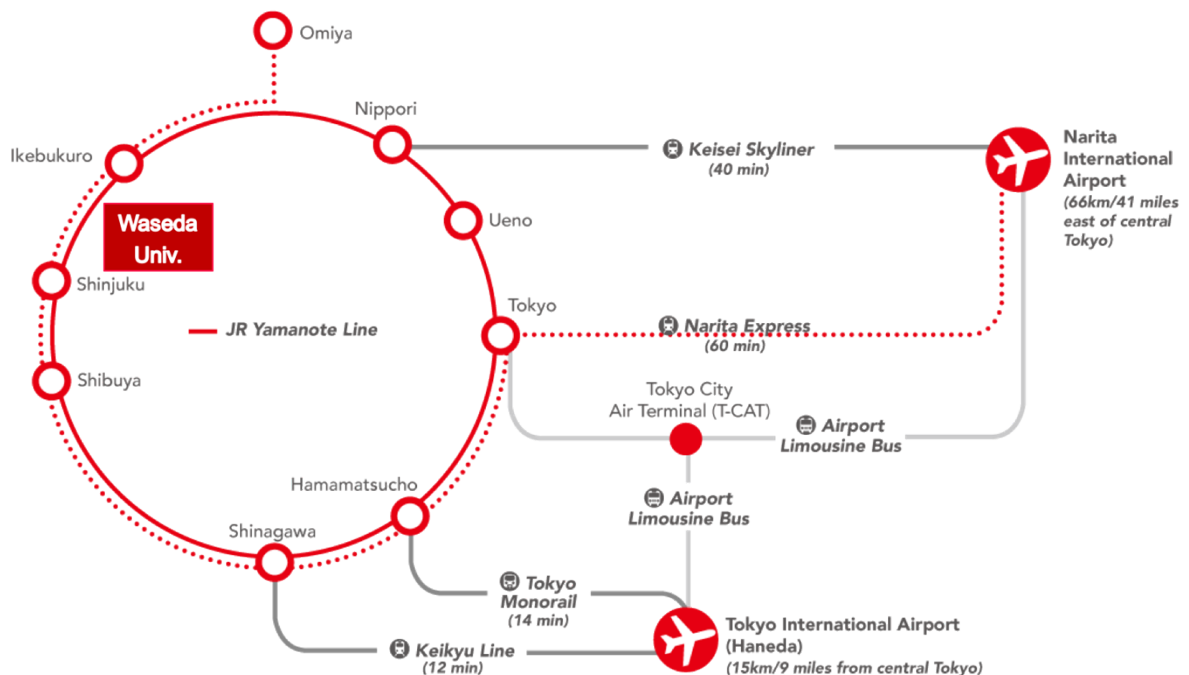
International Conference Center, Waseda University

Address: 1 Chome-20-14 Nishiwaseda, Shinjuku-ku, Tokyo-to 169-0051 Japan
〒169-0051 東京都新宿区西早稲田 1丁目 20-14



Transport Access: <https://www.waseda.jp/top/en/access/waseda-campus>

Location in Tokyo:



Conference Venue

Conference Rooms-3rd Floor

March 16	Lobby of 3 rd Floor
March 17	Conference Room 1 & 2 & 3
March 18	Conference Room 1 & 3



Onsite Guideline

Time Zone

GMT+9

Schedule

- ❑ **March 16: Lobby of 3rd Floor** → **Sign-in & Conference Kits Collection**
- ❑ **March 17: Keynote & Invited Speeches & Oral Sessions** → **Conference Room 1 & 2 & 3**
- ❑ **March 18: Oral Sessions** → **Conference Room 1 & 3**

Language

- Please make presentation and discuss in English.

Oral Presentation

- Keynote Speech: 45 mins (including Q&A).
- Invited Speech: 30 mins (including Q&A).
- Paper Presentation: about 13 minutes for presentation and 2 minutes for Q&A.
- Please make sure your presentation is well timed. Please keep in mind that the program is full and that the speaker after you would like their allocated time available to them.
- Each speaker is required to meet her/his session chair in the corresponding session rooms 10 minutes before the session starts and copy the slide file (PPT or PDF) to the computer.
- Please note that each session room will be equipped with a LCD projector, screen, point device, microphone, and a laptop with general presentation software such as Microsoft PowerPoint and Adobe Reader. Please make sure that your files are compatible and readable with our operation system by using commonly used fonts and symbols. If you plan to use your own computer, please try the connection and make sure it works before your presentation.
- Videos: If your PowerPoint files contain video clips, please make sure that they are well formatted and connected to the main files.

Reminder

Please attend the conference in formal attire.

Safety Reminder: Secure Valuable Items at All Times.

We remind you to secure your personal belongings at all times.

The conference organizer will not be responsible for the loss or damage to any personal belongings.

Online Guideline

Time Zone

GMT+9

Platform | ZOOM



- Download Zoom from: <https://zoom.us/download>
- For Chinese Users: <https://zoom.com.cn/download>
- For Zoom skills: <https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials>

Test Sessions

Date: March 16, 2024

Prior to the formal meeting, presenters shall join the test room to ensure everything is on the right track.

Oral Sessions

Date: March 18, 2024

Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

Equipment & Environment Needed

- A computer with internet connection and camera
- Headphones
- Stable internet connection
- Proper lighting and background

Presentation Instructions

- Please make presentation and discuss in English.
- Paper Presentation: about 13 minutes for presentation and 2 minutes for Q&A.

Attention Please

The conference will be recorded. We will appreciate your proper behavior.

Presentation Recording and Broadcasting:

The photograph(s) or video or audio recording(s) will be taken by conference organizer. It will be used in for conference program purpose. Each presentation will be recorded, if you don't want it, please inform our staff ahead of time.

Do not record other presenters' presentation nor distribute it to or share with anyone unless the presenter gives written consent of agree. Failure to do so will be considered a serious academic violation subject to disciplinary / lawful action.

Conference Committees

Conference Chairs

Hayato Yamana, Waseda University, Japan
Sheng-Uei Guan, Xi'an Jiaotong-Liverpool University, China

Technical Program Chairs

Jianhua Zhang, Oslo Metropolitan University, Norway
Yohei Saika, National Institute of Technology, Gunma College, Japan
Sakiko Ogoshi, National Institute of Technology, Fukui College, Japan

Technical Program Co-Chairs

Jionglong Su, Xi'an Jiaotong-Liverpool University, China
Hui Zhang, Eli Lilly & Company, USA
Chutisant Kerdivulvech, National Institute of Development Administration, Thailand

Awards Chairs

Guangxia Xu, Guangzhou University, China
Huakang Li, Xi'an Jiaotong-Liverpool University, China
Maruf Hasan, Xi'an Jiaotong-Liverpool University, China

Publication Chair

Yan Sun, Beijing Huaxia Institute of Blockchain, China

Treasurer

Ninh V. Nam, Saigon University, Vietnam

Publicity Chairs

Takahiro Koita, Doshisha University, Japan
Wai Kin (Victor) Chan, Tsinghua Shenzhen International Graduate School, China
Tiong Siew Kiong, Universiti Tenaga Nasional, Malaysia

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Yi Sun, Kobe Institute of Computing, Japan
Naoki Yamamoto, Kumamoto College, National Institute of Technology, Japan
OGOSHI Yasuhiro, University of Fukui, Japan
Toshiaki Aida, Okayama University, Japan

Conference Committees

Pengfei Wang, Dalian University of Technology, China
Hui Hou, Wuhan University of Technology, China
Kewen Li, China University of Petroleum, China
Li Zhang, Shandong University of Political Science and Law, China
Yang Gao, Beijing University of Technology, China
Xiang Xi, Beijing Institute of Technology, China
Chao-Hsien Hsieh, Qufu Normal University, China
Qingchao Kong, Institute of Automation, Chinese Academy of Sciences, China
Ruifeng Hu, Xihua University, China
Juan Wang, Shenzhen University, China
Xiaoyu Shi, Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences, China
Man Fung (Kelvin) Lo, The University of Hong Kong, Hong Kong
Hsing-Hung Lin, Digital Innovation Lab., Telecommunication Lab. Chunghwa Telecom. Co., Taiwan
Po-Chou Shih, National Yunlin University of Science and Technology, Taiwan
Chung Yung, National Dong Hwa University, Taiwan
Qizhi Xu, Beijing Institute of Technology, China
Fang Hu, University of West Florida, USA
Yong Shi, Kennesaw State University, USA
Christopher Harris, University of Northern Colorado, USA
Venkata Karthik Penikalapati, Salesforce Inc, USA
Zaher Aghbari, University of Sharjah, UAE
Radhakrishna Bhat, Manipal Institute of Technology, India
Rakshit Kothari, Maharana Pratap University of Agriculture and Technology, India
Jennifer Anne A. Repaso, Bulacan State University, Philippines
Joann G. Perez, Bulacan State University, Philippines
Arya Wicaksana, Universitas Multimedia Nusantara, Indonesia
Sureena Matayong, Prince of Songkla University, Thailand
Shigeru Fujimura, Waseda University, Japan
Rafiqul I Noorani, Loyola Marymount University, United States
Wonjik Kim, National Institute of Advanced Industrial Science and Technology, Japan
Rajesh Mahadeva, Indian Institute of Technology, India
Janne Heilala, University of Turku, Finland
Ding Ma, School of Economics, Wuhan University of Technology, China
Pedro Segundo Castañeda, Peruvian University of Applied Sciences, Perú
Juan Manuel Davila Delgado, Birmingham City University, UK
Honggang Wang, Cal Poly Pomona, United States
Yen-chiu Chen, Chung Hua University, Taiwan
Thang Le Dinh, Université du Québec à Trois-Rivières, Canada
Daniel J. Mills, Ritsumeikan University, Shiga, Japan
Hui-Wen Huang, Shaoguan University, China
Vijay Kale, VNIT, Nagpur, India
PHuafeng Liu, Zhejiang University, China
Guan Luo, Institute of Automation, Chinese Academy of Science, China

Program Outline

Day 1 | March 16, 2024 | Saturday | (GMT+9)











Time	Activity	Venue / Zoom ID
10:00-17:00	Sign-in and Conference Kits Collection for Onsite Participants <ul style="list-style-type: none"> <input type="checkbox"/> printed conference program <input type="checkbox"/> conference bag <input type="checkbox"/> delegate card 	Lobby of 3 rd Floor (International Conference Center, Waseda University)
	<p>3rd Floor of International Conference Center, Waseda University</p>	
Zoom Test for Online Participants		
10:00-11:30	<p>Session 13</p> <p>BAI24-5041, BAI24-560, BAI24-4127, BAI24-450E, BAI24-416A, BAI24-4112, BAI24-5013</p> <p>Session 15</p> <p>BAI24-1105, BAI24-4956, BAI24-4751 BAI24-4120, BAI24-4765, BAI24-5160</p>	878 2256 2480
10:00-11:30	<p>Session 14</p> <p>BAI24-5051, BAI24-4838, BAI24-4999, BAI24-5340, BAI24-5063, BAI24-570, BAI24-4101</p> <p>Session 16</p> <p>BAI24-4658, BAI24-4119, BAI24-4122, BAI24-408E, BAI24-4549, BAI24-509</p>	820 6516 3871

Program Outline

Day 2 | March 17, 2024 | Sunday | (GMT+9)

Time	Activity	Venue
Chairperson: Prof. Hayato Yamana, Waseda University, Japan		
 9:30-9:35	Opening Remark Conference Cahir - Prof. Sheng-Uei Guan Xi'an Jiaotong-Liverpool University, China	Conference Room 2 Zoom ID: 878 2256 2480
 9:35-9:40	Welcome Address Conference Cahir - Prof. Hayato Yamana Waseda University, Japan	
 9:40-10:25	Keynote Speech - Prof. Xingquan (Hill) Zhu (IEEE Fellow) Florida Atlantic University, USA <i>"Open-World Big Data Analytics: Graph Learning with Unknown or Uncertain Future"</i>	
10:25-10:55	Group Photo & Coffee Break	
 10:55-11:40	Keynote Speech - Prof. Kazue Sako Waseda University, Japan <i>"Digital Identity, Verifiable Credentials and Cryptography"</i>	
 11:40-12:10	Invited Speech - Assoc. Prof. Daniel Berrar The Open University, UK & Tokyo Institute of Technology, Japan <i>"Self-organizing Incremental Neural Networks for Unsupervised and Supervised Continual Learning"</i>	
12:10-14:00	Lunch Break	
 14:00-15:30	Session 1 Machine Learning Models and Algorithms	Conference Room 1
 14:00-15:30	Session 2 Deep Learning and Computing	Conference Room 2
 14:00-15:30	Session 3 Big Data Analysis, Management, and Application	Conference Room 3
15:30-16:00	Coffee Break	
 16:00-17:30	Session 4 Data Model and Database	Conference Room 1
 16:00-17:30	Session 5 Data based Intelligent Application Platform and Information Management	Conference Room 2
 16:00-17:30	Session 6 Modern Information Theory and Information Systems	Conference Room 3
18:00-20:00	Buffet Dinner @ RIHGA Royal Hotel Tokyo	

Program Outline

Day 3 March 18, 2024 Monday (GMT+9)		
Time	Onsite Sessions	Venue
 9:30-11:15	Session 7 Data Mining, Analysis Methods, and Information Security in Advanced Information Systems	Conference Room 1
 9:30-11:00	Session 8 Integrated Information System and Security Based on Blockchain	Conference Room 3
11:30-13:00	Lunch Break	
 13:00-14:30	Session 9 Image Analysis and Multimedia Application Technology	Conference Room 1
 13:00-14:30	Session 10 Neural Network Theory and Models in Digital Images	Conference Room 3
14:30-15:00	Coffee Break	
 15:00-16:15	Session 11 Advanced Artificial Intelligence and Applications	Conference Room 1
 15:00-16:15	Session 12 Text Based Language Model and Sentiment Analysis	Conference Room 3
Time	Online Sessions	Zoom ID
 9:30-11:15	Session 13 Software and Information Technology	878 2256 2480
 9:30-11:15	Session 14 AI based Image Processing Technology and Methods	820 6516 3871
11:15-13:00	Lunch Break	
 13:00-14:30	Session 15 Machine Learning and Intelligent Computing	878 2256 2480
 13:00-14:30	Session 16 Big Data Science and Data Analysis	820 6516 3871

Conference Chair



Prof. Hayato Yamana

Waseda University, Japan

Hayato Yamana received a Dr. Eng. degree at Waseda University in 1993. He began his career at the Electrotechnical Laboratory of the former Ministry of International Trade and Industry (MITI), and was seconded to MITI's Machinery and Information Industries Bureau for a year in 1996. He was subsequently appointed associate professor of Computer Science and Engineering at Waseda University in 2000, and has been a professor since 2005. Since 2010, he has been director of DBSJ (Database Society of Japan). He was director of IPSJ (Information Processing Society of Japan) and vice chair of the Institute of Electronics, Information and Communication Engineers (IEICE)'s Information and Communication Society. At Waseda University, he was Deputy Chief Information Officer from 2015 to 2020. Since Oct. 2020, he has been Vice President for IT Promotion and Chief Information Officer.

Research Interests

- Secure Computation
- Big Data Analysis (SNS, Trustworthy, Recommendation, Authorship Identification)
- Search Engines
- User Interface
- Data Mining
- Parallelizing Compiler

Conference Chair

Prof. Sheng-Uei Guan

Xi'an Jiaotong-Liverpool University



Steven Guan (Sheng-Uei Guan) received his BSc. from Tsinghua University and M.Sc. & Ph.D. from the University of North Carolina at Chapel Hill.

He is currently an Honorary Professor at University of Liverpool & also a Professor at Xi'an Jiaotong-Liverpool University (XJTLU). He served the head of department position at XJTLU for 4.5 years, creating the department from scratch and now in shape. Before joining XJTLU, he was a tenured professor and chair in intelligent systems at Brunel University, UK.

Prof. Guan has worked in a prestigious organization for several years, serving as a design engineer, project leader, and department manager. After leaving the industry, he joined the academia for three and half years. He served as deputy director for the Computing Center and the chairman for the Department of Information & Communication Technology. Later he joined the Electrical & Computer Engineering Department at National University of Singapore as an associate professor for 8 years.

There are quite a few inventions from Prof. Guan including Generalized Minimum Distance Decoding for Majority Logic Decodable Codes, Prioritized Petri Nets, Self-Modifiable Color Petri Nets, Dynamic Petri Net Model for Iterative and Interactive Distributed Multimedia Presentation, Incremental Feature Learning, Ordered Incremental Input/Output Feature Learning, Input/Output Space Partitioning for Machine Learning, Recursive Supervised Learning, Reduced Pattern Training using Pattern Distributor, Contribution Based Feature Selection, Incremental Genetic Algorithms, Incremental Multi-Objective Genetic Algorithms, Decremental Multi-objective Optimization, Multi-objective Optimization with Objective Replacement, Incremental Hyperplane Partitioning for Classification, Incremental Hyper-sphere Partitioning for Classification, Controllable Cellular Automata for Pseudorandom Number Generation, Self Programmable Cellular Automata, Configurable Cellular Automata, Layered Cellular Automata, Transformation Sequencing of Cellular Automata for Pseudorandom Number Generation, Open Communication with Self-Modifying Protocols, etc.

Research Interests

- machine learning, computational intelligence, big data analytics, mobile commerce, modeling, networking, personalization, security, coding theory, and pseudorandom number generation Big Data Analysis (SNS, Trustworthy, Recommendation, Authorship Identification)

Keynote Speaker



Prof. Xingquan (Hill) Zhu (IEEE Fellow)

Florida Atlantic University, USA

- ❑ Venue: Conference Room 2, International Conference Center
- ❑ Time: 9:40-10:25 (GMT+9), March 17, 2024
- ❑ Zoom ID: 878 2256 2480 <https://us02web.zoom.us/j/87822562480>

“Open-World Big Data Analytics: Graph Learning with Unknown or Uncertain Future”

Abstract Networks/Graphs are convenient tools to model interactions and interdependencies between large-scale data. Graph learning tasks, such as node classification which attempts to categorize nodes of graphs into different groups, are often carried out in a closed-world deterministic setting where labeled classes (and their training samples) are known, with one or multiple labels being assigned to each node. The learning goal is to correctly classify unlabeled nodes into classes already known, by answering “which label(s) can describe the node”. In reality, new trends emerge constantly, and a model unaware of an unknown or uncertain future can hardly work well in real-world applications.

In this talk, we address two fundamental problems in graph learning, open-world graph learning and graph label distribution learning, in a setting that the learning is to predict test samples whose class label space is only partially known or follows a distribution. For open-world graph learning, we propose a new open-world graph learning paradigm, where the learning goal is to not only classify nodes belonging to seen classes into correct groups, but also classify nodes not belonging to existing classes to an unseen class. To tackle uncertain label space with label distribution denoting the description degree of the label to the sample, we propose to explicitly model three types of relationships: instance-instance, label-label, and instance-label, to learn the label distribution for networked data. In the talk, we will also discuss some open challenges and problems in graph learning.

Biography Xingquan Zhu is a Full Professor in the Department of Electrical Engineering and Computer Science at Florida Atlantic University (FAU). He received his PhD degree in Computer Science from Fudan University. His research interests mainly include data mining, machine learning, and bioinformatics. Since 2000, he has published more than 300 referred journal and conference papers in these areas, including four Best Paper Awards and three Best Student Paper Awards. He is a steering committee member of the International Conference on Scientific and Statistical Database Management (SSDBM), a General Co-chair of the 2024 IEEE International Conference on Knowledge Graph (ICKG), a Program Committee Co-Chair of the 2023 International Conference on Computational Data and Social Networks (CSoNet), a Program Committee Co-Chair of the 2022 IEEE International Conference on Data Mining (ICDM), and an Associate Editor of the ACM Trans. on Knowledge Discovery from Data (2017–date). He received the 2023 IEEE ICDM Outstanding Service Award, FAU College of Engineering & Computer Science Senior Faculty Research Award (2024, 2019), and National Engineers’ Council 2019 Outstanding Engineering Achievement Merit Award. He is a Fellow of the IEEE and AAIA.

Keynote Speaker

Prof. Kazue Sako

Waseda University, Japan

- ❑ Venue: Conference Room 2, International Conference Center
- ❑ Time: 10:55-11:40 (GMT+9), March 17, 2024
- ❑ Zoom ID: 878 2256 2480 <https://us02web.zoom.us/j/87822562480>



“Digital Identity, Verifiable Credentials and Cryptography”

Abstract Given so many social activities on Internet, proving who you are has become an important procedure to initiate online interactions. Historically this was performed using IDs and passwords, where latter needs to be unique and long enough for each service. With development of digital signatures and zero-knowledge proofs, we can have a pair of public key and secret key that can be used as ID and password common to many services. In this talk, we will discuss about Verifiable Credentials which can be used to prove our attributes including our public key to online entities. Unlike paper-based credentials such as passports and driver’s license card, it can embed many privacy features: unlinkable selective disclosure property allows you to disclose your address but not your name, and use of same credentials cannot be traced; Predicate proofs allows you to prove your age is over 20 without disclosing your exact birthdate. Efficient implementations are realized through a comparatively new digital signature primitive called BBS+ signatures. We will discuss how these Verifiable Credentials can improve our online experiences and yet provide trustworthy data exchange.

Biography Dr. Kazue Sako is a professor at Department of Computer Science and Engineering at Waseda University.

Her research topic is on cryptographic protocols that enhance privacy and fairness, e.g. electronic voting protocols, anonymous authentication schemes, and digital lottery systems. She is an Expert in ISO/IEC JTC1 SC27 WG5 (Identity and Privacy) and edited ISO 29191 "Requirements for Partially Anonymous, Partially Unlinkable Authentication." She served as Program Co-Chair / Chair for many international conferences including ASIACRYPT, PKC, ESORICS, RSA conference Cryptographer's Track, Financial Cryptography and Data Security, ACNS and AsiaCCS. She is a council member of the Science Council of Japan, and was the 26th president of Japan Society for Industrial and Applied Mathematics. She is currently serving as a vice chair of MyDataJapan.

Invited Speaker



Assoc. Prof. Daniel Berrar

The Open University, UK & Tokyo Institute of Technology, Japan

- ❑ Venue: Conference Room 2, International Conference Center
- ❑ Time: 11:40-12:10 (GMT+9), March 17, 2024
- ❑ Zoom ID: 878 2256 2480 <https://us02web.zoom.us/j/87822562480>

“Self-organizing Incremental Neural Networks for Unsupervised and Supervised Continual Learning”

Abstract A fundamental characteristic of how humans learn is that we acquire knowledge incrementally. By contrast, the standard machine learning life cycle is characterized by a clear distinction between a learning phase and an application phase. Also, machine learning models are usually designed for stationary environments where the data-generating process is assumed to be stable over time. In many real-world applications, however, the data are non-stationary with concept drifts, i.e., sudden, unforeseeable changes of the data distribution. Continual learning denotes the machine learning paradigm that considers adaptive models capable of learning new tasks and adapting to non-stationary data. A key characteristic of a continual learner is the ability to learn new tasks without compromising previously acquired knowledge, that is, without catastrophic forgetting -- even when completely new tasks are to be learned. In this invited talk, I will present our work on self-organizing incremental neural networks for continual learning for unsupervised and supervised tasks.

Biography Dr. Daniel Berrar received his PhD from the University of Ulster, UK. From 2017 to 2022, he was a specially appointed Associate Professor at Tokyo Institute of Technology, Japan. In 2022, he returned to the UK to take up a lectureship in statistics & data science at the Open University while remaining a special researcher at Tokyo Institute of Technology. Daniel has been serving as Associate Editor of BMC Bioinformatics since 2009, and as Guest Editor of Machine Learning from 2017 to 2019 and from 2022 to 2024. He has been a program committee member of 124 international conferences and served as senior program committee member of IJCAI. His area of research is machine learning, specifically (1) model evaluation and selection; (2) supervised learning from high-dimensional data, particularly from the life and health sciences; and (3) continual learning. For more details, please see <http://www.berrar.com/>.

Onsite Session 1







“Machine Learning Models and Algorithms”

Session Chair: Prof. Xingquan (Hill) Zhu, Florida Atlantic University, USA

Time: 14:00-15:30 (GMT+9), March 17, 2024

Venue: Conference Room 1, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-448A 14:00-14:15		<i>Evaluating Marketing Effectiveness in Influencer Collaborations on YouTube</i> Yu-Syuan Tseng , Yi-Shan Li, Chia-Chi Wu National Chung Hsing University, Taiwan
BAI24-4603 14:15-14:30		<i>Predicting COVID-19 Transmission in Southern California with Machine Learning Methods</i> Han Li, Ran Wei, Wenyu Wang, Nanpeng Yu University of California, Riverside, USA
BAI24-4116 14:30-14:45		<i>Integrating Latent Dirichlet Allocation and Gradient Boosting Tree methodology for insurance product development recommendation</i> Wei-Yu Chen , Tzu-Chien Wang, Ruey-Shan Guo, Chialin Chen Visualsoft Information System CO., LTD., Taiwan
BAI24-502-A 14:45-15:00		<i>Reinforcement Learning: a Solution to Vehicle Routing Problems</i> Honggang Wang California State Polytechnic University - Pomona, United States
BAI24-5040 15:00-15:15		<i>The Knowledge Training System Based on Machine Learning Technology</i> Zhansheng Gong, Chenggong Zhai , Shunjie Ding, Heng Zhang, Yan Li, Yang Huang Army Logistics Academy, China
BAI24-527-A 15:15-15:30		<i>Prediction of the Hydrogen Permeation Coefficient in composite walls of High-Pressure Tanks from Microstructure Images Using Machine Learning</i> Borja Ferrándiz , Nicolas Hascoët, Francisco Chinesta, Aurore Jullin, Eliane Espuche, Matthieu Zinet École Nationale Supérieure d'Arts et Métiers, France

Best Presentation Award & Group Photo

Onsite Session 2



“Deep Learning and Computing”

Session Chair: Assoc Prof. Chun-Hsing Ho, University of Nebraska-Lincoln, USA

Time: 14:00-15:30 (GMT+9), March 17, 2024

Venue: Conference Room 2, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-421A 14:00-14:15		<i>Recommending Collaborative Influencers on Social Media for Influencer Marketing: A Beauty Industry Case Study</i> Chia-Chi Wu , Yu-Ling Lu National Chung Hsing University, Taiwan
BAI24-505 14:15-14:30		<i>A Novel Approach to Deep Metric Learning with In-Batch Feature Vector Constraint</i> Wonjik Kim National Institute of Advanced Industrial Science and Technology, Japan
BAI24-507 14:30-14:45		<i>A Deep Reinforcement Learning Framework with Convolution-Augmented Attention and Gate Mechanism for Job Shop Scheduling</i> Goytom Desta Gebreyesus , Getu Tadesse Fellek, Ahmed Farid, Yi Qiang, Shigeru Fujimura, Osamu Yoshie Waseda University, Japan
BAI24-5025 14:45-15:00		<i>Enhancing Piano Practice Techniques: A Deep Learning System for Front Sitting Posture and Side Fingering Recognition</i> Yen-chiu Chen , Cong-You Lin, Yi-Cheng Chiou, Yu-Chen Chen, Mao-Sen Chen, Jing-En Lin Chung Hua University, Taiwan
BAI24-449A 15:00-15:15		<i>Leveraging Multimodal Deep Learning Model to Predict the Donation Ranking for Streamers</i> Hsi-En Tai , Chia-Chi Wu National Chung Hsing University, Taiwan
BAI24-5280 15:15-15:30		<i>Physiology and Geometry-Informed Deep Learning Framework for 12-Lead ECG Cardiac Transmembrane Potential recovery</i> Shujin Hu , Huihui Ye, Huafeng Liu State Key Laboratory of Extreme Photonics and Instrumentation, Zhejiang University, China

Best Presentation Award & Group Photo

Onsite Session 3

“Big Data Analysis, Management, and Application”

Session Chair: Prof. Hayato Yamana, Waseda University, Japan

Time: 14:00-15:30 (GMT+9), March 17, 2024

Venue: Conference Room 3, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-4232 14:00-14:15		<i>Adaptive Shapley: Using Explainable AI with Large Datasets to Quantify the Impact of Arbitrary Error Sources</i> Birk Martin Magnussen , Maik Jessulat, Claudius Stern, Bernhard Sick biozoom services GmbH, Germany
BAI24-4809 14:15-14:30		<i>Big Data Analytics and Supply Chain Resilience: A Bibliometric Analysis</i> Aziz Hmioui , Yasser El Ouarrak Sidi Mohamed Ben Abdellah University Fez, Morocco
BAI24-4978 14:30-14:45		<i>Implementing an Integrated Assistance System for Stock Investment with Big Data Environments</i> Yu-Chieh Cheng, Yun-Hsuan Chang, Yu-Chi Lin, Hsin-Jou Shih, Chung Yung National Dong Hwa University, Taiwan
BAI24-4089 14:45-15:00		<i>Exploring a Big Data-Driven Dialogue Generation Method for Disease Queries using RASA</i> Xinyue Quan , Xiaohan Dai, Xiang Xie Beijing Institute of Technology, China
BAI24-4110 15:00-15:15		<i>Scalable Analysis of English Dictionary Files on HPC Systems Big Data Platform</i> Jayanth C, Adarsh U , David De Hilster, Hugo Watanuki, Shobha G, Jyoti Shetty RV College of Engineering (affiliated with VTU), India
BAI24-4118 15:15-15:30		<i>Enhancing Open-Source Intelligence: Introducing the Functional Intelligence Tool (FINT)</i> Laurens H.F. Müter , Jacco van der Plaat, Anna Zoet, Christof van Nimwegen, Remco C. Veltkamp Netherlands Police & Utrecht University, Nationaal Politielab AI, the Netherlands

Best Presentation Award & Group Photo

Onsite Session 4

“Data Model and Database”

Session Chair: Prof. Aziz Hmioui, Sidi Mohamed Ben Abdellah University Fez, Morocco

Time: 16:00-17:30 (GMT+9), March 17, 2024

Venue: Conference Room 1, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-4357 16:00-16:15		<i>Universal Data Model as a Way to Build Multi-paradigm Data Lakes</i> Artem A. Sukhobokov, Yury E. Gapanyuk, Artem A. Vetoshkin, Alexandra R. Mironova, Daniil R. Nikolskiy, Maria A. Morozevich , Nikita A. Klyukin, Rodion A. Afanasev, Dmitriy S. Lakhvich Bauman Moscow State Technical University, Russia
BAI24-4111 16:15-16:30		<i>Techniques used in time series databases and their internals</i> P K Navin Shrinivas , Mohamed Ayaan, Anirudh Rowjee, Vishal CE, Animesh Giri PES University, India
BAI24-4113 16:30-16:45		<i>MySQL-Pot: A LLM-Based HoneyPot for MySQL Threat Protection</i> Yuqi Hu, Siyu Cheng , Yuanyi Ma, Shuangwu Chen, Fengrui Xiao, Quan Zheng University of Science and Technology of China, China
BAI24-4748 16:45-17:00		<i>Driving Biotech Innovation: An analysis of RD&I models and Big Data Strategies in Open Innovation Frameworks</i> Jayson Luis da Silva Ribeiro , Anapatrcia Morales Vilha, Enda Fallon, John Mee, Thiago Braga Rodrigues Technological University of the Shannon, Ireland
BAI24-446A 17:00-17:15		<i>Breaking Boundaries with Transfer Learning: Leveraging Yelp Data to Enhance Instagram User Profiling</i> Ai-Wei Liu , Chia-Chien Kao, Chia-Chi Wu National Chung Hsing University, Taiwan
BAI24-4105 17:15-17:30		<i>Graph Similarity-Based Data Management Platform for Advancing Material Informatics</i> Amit Kumar , Hideya Yoshiuchi Research and Development Group, Hitachi Ltd., Japan

Best Presentation Award & Group Photo

Onsite Session 5

“Data based Intelligent Application Platform and Information Management”

Session Chair: Prof. Shobha G, RV College of Engineering (affiliated with VTU), India

Time: 16:00-17:30 (GMT+9), March 17, 2024

Venue: Conference Room 2, International Conference Center, Waseda University, Japan

Note:

The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-447A
16:00-16:15



Improving Transaction Data Analysis with Product Tagging for Third-party Payments

Zhe-Wei Hu, Chia-Chi Wu

National Chung Hsing University, Taiwan

BAI24-4884
16:15-16:30



Enhancing Accuracy in LLM for Estimating Human Intentions: A Data-Driven Self-Validation Approach

Yudai Yamazaki, Daisuke Kamisaka

KDDI Research, Inc., Japan

BAI24-4945
16:30-16:45



Application of Data Anonymization to Smartphone Apps Usage Logs

Naoya Tabata, Maiko Shigeno

University of Tsukuba, Japan

BAI24-4129
16:45-17:00



Towards Understanding Low Energy Nuclear Reactions: Structuring the Literature and Applying Data Analytics

Anasse Bari, Sneha Singh, **Yvonne Wu**, Tanya Pushkin Garg, Emos Ker, Charles Wang, Benjamin Kang, Adelina Simpson, Dongjoo Lee, David Nagel

New York University, USA

BAI24-4009
17:00-17:15



Vibration Data Mining and Machine Learning for Anomaly Detection of Cycling Trails Using Instrumented Bike

Chun-Hsing Ho, Kewei Ren

University of Nebraska-Lincoln, USA

BAI24-537
17:15-17:30



AI-Powered Earth Disaster Management: A Collaborative Innovation Platform

Chung-I Huang, Chen-Kai Sun, Jih-Sheng Chang, Wen-Yi Chang, Fang-Pang Lin, Jyh-Horng Wu, Wei-Yu Chen

National Center for High-performance Computing (NCHC), Taiwan

Best Presentation Award & Group Photo

Onsite Session 6







“Modern Information Theory and Information Systems”

Session Chair: Prof. Yohei Saika, National Institute of Technology, Gunma College, Japan

Time: 16:00-17:30 (GMT+9), March 17, 2024

Venue: Conference Room 3, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-561-A 16:00-16:15		<i>Measuring Composite Risk Spillover using QRNN-QQ-CoVaR</i> Ziyan Zhu , Xiaoxing Liu, Chao Ren, Chenyi Wang Southeast University, China
BAI24-4148 16:15-16:30		<i>Thermal Comfort in Air Conditioning Based on Bayesian Inference Using the EAP Estimation</i> Yohei Saika , Masahiro Nakagawa National Institute of Technology, Gunma College, Japan
BAI24-4117 16:30-16:45		<i>A Novel Differential Privacy Protection Model for Publishing Time Series of Classification Task</i> Ai Ran , Duo Li, Xinyue Ren, Jinnan He, Fengchi Yuan, Wai Kin (Victor) Chan Shenzhen International Graduate School, Tsinghua University, China
BAI24-5080 16:45-17:00		<i>An Expert System for the Selection of Additive Manufacturing Systems</i> Almathen S Abdulwahab, Rafiqul I Noorani Loyola Marymount University, United States
BAI24-5720 17:00-17:15		<i>Research on SINS/DVL integrated navigation method based on error state model</i> Guangrun Sheng , Xixiang Liu, Xiangzhi Cheng, Hao Luo, Qiantong Shao, Hebin Yu Southeast university, China
BAI24-5073 17:15-17:30		<i>Formation Control of UAVs Based on Improved Artificial Potential Field</i> Yingxue Zhang , Chuanzhi Chen, Jinbao Chen, Meng Chen, Xiaokang Deng, Zeyu Zhang, Nanjing University of Aeronautics and Astronautics, China

Best Presentation Award & Group Photo

Onsite Session 7

“Data Mining, Analysis Methods, and Information Security in Advanced Information Systems”

Session Chair: Assoc. Prof. Sujing Wang, Lamar University, USA

Time: 9:30-11:15 (GMT+9), March 18, 2024

Venue: Conference Room 1, International Conference Center, Waseda University, Japan

Note:	The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.	
BAI24-4570 9:30-9:45		<i>High Fluctuation Based Recursive Segmentation for Big Data</i> Desmond Fomo , Aki-Hiro Sato Yokohama City University, Japan
BAI24-4723 9:45-10:00		<i>Learning M-Order Spectrum Graphs to Identify Unknown Chemical Compounds from Infrared Spectroscopy Data</i> Gyoung S. Na , Ye Cheol Rho Korea Research Institute of Chemical Technology, South Korea
BAI24-4100 10:00-10:15		<i>Sentiment Analysis and Emotion Detection of COVID-19 Geo-Tagged Twitter Data</i> Sujing Wang , Sambeg Dhakal, Bhuwan Prasad Upadhyay Lamar University, USA
BAI24-5060 10:15-10:30		<i>Leveraging Automated POS Tagging to Decode Parent-Infant Interactions in Digital Gameplays</i> Wan-Ting Yeh , Ali Knott, Annette M. E. Henderson University of Auckland, New Zealand
BAI24-5023 10:30-10:45		<i>A Synthetic Data Approach for Object Detection in Super Low Resolution Images</i> Mosayeb Davoudi Kashkoli, Asad Javied, Ari Yair Barrera-Animas , Juan Manuel Davila Delgado Universidad Panamericana, Mexico
BAI24-526-A 10:45-11:00		<i>Data Augmentation for Regression Machine Learning Problems in High Dimensions</i> Clara Guilhaumon , Nicolas Hascoët, Francisco Chinesta, Marc Lavarde ENSAM, France
BAI24-5380 11:00-11:15		<i>A Combined Data Mining and Ensembled Machine Learning based Solution for High Impedance Fault Detection in Distribution Systems</i> Sudarshan Khond, Vijay Kale , Makarand Ballal V.N.I.T., Nagpur, India

Best Presentation Award & Group Photo

Onsite Session 8

“Integrated Information System and Security Based on Blockchain”

Session Chair: Assoc. Prof. Christopher Harris, University of Northern Colorado, USA

Time: 9:30-11:00 (GMT+9), March 18, 2024

Venue: Conference Room 3, International Conference Center, Waseda University, Japan

Note:

The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-4348
9:30-9:45



DBNode: A Decentralized Storage System for Big Data Storage in Consortium Blockchains

Narges Dadkhah, Xuyang Ma, Katinka Wolter, Gerhard Wunder
Freie Universität Berlin, Germany

BAI24-4151
9:45-10:00



Web3.0 Generative Art- A Co-creation System in Environmental Sustainability Concept Form

Chiung-Hui Chen
Asia University, Taiwan

BAI24-4871
10:00-10:15



Attributes of a Blockchain-based Halal Tracking and Tracing System: A Multi-Criteria Decision-Making Approach

Yandra Rahadian Perdana, Eko Heru Prasetyo
Islam Negeri Sunan Kalijaga, Indonesia

BAI24-4106
10:15-10:30



Challenges and Opportunities of Integrating Non-Fungible Tokens (NFTs) and Self-Sovereign AI (SSAI) in Blockchain-Based Metaverse Projects

Christopher G. Harris
University of Northern Colorado, United States

BAI24-4128
10:30-10:45



Anomaly Detection Method for Small-Scale Blockchain Transaction

Shin Morishima
Toyama Prefectural University, Japan

BAI24-4131
10:45-11:00



IOTA Sharding Mechanism

Hari Purnama, Masahiro Mambo
Kanazawa University, Japan

Best Presentation Award & Group Photo

Onsite Session 9

“Image Analysis and Multimedia Application Technology”

Session Chair: Dr. David Roy Nelson, New York University Abu Dhabi, United Arab Emirates

Time: 13:00-14:30 (GMT+9), March 18, 2024

Venue: Conference Room 1, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-5033
13:00-13:15



Enhancing Blood Vessel Images using Contrast Limited Adaptive Histogram Equalization and Adaptive Gaussian Thresholding for Anemia Detection in Palpebral Eye Conjunctiva

Elaine Bhel Lagman, Kirstine Kate Malabanan, Matthew Mendoza, **Raeniel Saavedra**, Jessie James Suarez

University of Santo Tomas, Philippines

BAI24-4536
13:15-13:30



Ship Navigational Status Classification based on the Geometrical and Spatiotemporal Features of the AIS-generated Trajectory

Wayan Mahardhika Wijaya, Yasuhiro Nakamura

National Defense Academy, Japan

BAI24-520
13:30-13:45



A Stacked Meta Approach for Object Detection to Reduce False Positives in Highly Complex Videos

Juan Manuel Davila Delgado, **Ari Yair Barrera-animas**

Universidad Panamericana, Mexico

BAI24-4086
13:45-14:00



A Synergistic Large Language Model and Supervised Learning Approach to Zero-Shot and Continual Activity Recognition in Smart Homes

Naoto Takeda, Roberto Legaspi, Yasutaka Nishimura, Kazushi Ikeda, Thomas Ploetz, Sonia Chernova

KDDI Research, Inc., Japan

BAI24-5540
14:00-14:15



SPoTem: Handgun Detection in Videos using Spatial, Pose, and Temporal Features

Juan Miguel Hilario Flores, Liam Ramores Liban, Idan Andrei Banag Paguio, Robert Lawrence Ty Ribaya, Jessie James Profeta Suarez

University of Santo Tomas, Philippines

BAI24-5740
14:15-14:30



A wireless image and sound sensing cyborg locust based on electrical stimulation

Xin Huang, Tiancheng Li, Bo Yang

Southeast University, China

Best Presentation Award & Group Photo

Onsite Session 10

“Neural Network Theory and Models in Digital Images”

Session Chair: Dr. Wonjik Kim, National Institute of Advanced Industrial Science and Technology, Japan

Time: 13:00-14:30 (GMT+9), March 18, 2024

Venue: Conference Room 3, International Conference Center, Waseda University, Japan

Note:

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BAI24-5029
13:00-13:15



Multiscale Superpixel HGCN Combining CNN for Semi-supervised Hyperspectral Image Classification

Jiayue Lu, Sei-ichiro Kamata
Waseda University, Japan

BAI24-4921
13:15-13:30



Feature Extraction of Gait Data via PCA and Personal Identification Using Neural Networks

Kazuki Nishimura, **Akio Ishida**, Jun Murakami, Naoki Yamamoto
National Institute of Technology, Kumamoto College, Japan

BAI24-4227
13:30-13:45



Predicting Orthopedic Surgery Types Using Convolutional Neural Networks

Li-Ling Wang, Chin-Hao Hsu, Tan-Yun Tsai, Li Huang, **Po-Chou Shih**
National Yunlin University of Science and Technology, Taiwan

BAI24-4612
13:45-14:00



Use of Deep Neural Networks for Uncertain Stress Functions with Extensions to Impact Mechanics

Garrett Blum, Ryan Doris, Diego Klabjan, Horacio Espinosa, Ron Szalkowski
Northwestern University, United States

BAI24-5031
14:00-14:15



ProMorph: Melanoma Classification in Dermoscopic Images using Proportional Morphological Dilation and Convolutional Neural Networks

Michael Angelo Caasi, Rio Espinosa, Jerielle Vinzon, Arlan Floyd Abante, Jessie James Suarez
University of Santo Tomas, Philippines

BAI24-4133
14:15-14:30



Connectivity-aware Experience Replay for Graph Convolution Network-based Collaborative Filtering in Incremental Setting

Xin Fan, Fan Mo, Chongxian Chen, Changhao Bai, Hayato Yamana
Waseda University, Japan

Best Presentation Award & Group Photo

Onsite Session 11

“Advanced Artificial Intelligence and Applications”

Session Chair: Prof. Vijay Kale, Department of Electrical Engineering, VNIT, Nagpur

Time: 15:00-16:15 (GMT+9), March 18, 2024

Venue: Conference Room 1, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-5660
15:00-15:15



Enhancing Travel Planning and Experiences with Multimodal ChatGPT 4.0

Jianhao Zhang, Daniel J. Mills, Hui-Wen Huang
Shaoguan University, China

BAI24-5017
15:15-15:30



Driving Energy Efficiency at Scale by Mass Deployment of AI based Chiller Energy Optimization

Ka Tai LAU, Kin Fung LEUNG, Pok Man SO
Electrical and Mechanical Services Department, HKSAR, Hong Kong, China

BAI24-5320-A
15:30-15:45



Pioneering AI-Driven Solutions for Algal Genomics and Future Prospects

David Roy Nelson
New York University Abu Dhabi, United Arab Emirates

BAI24-5071
15:45-16:00



AI-supported Authentic Communication with Native Speakers: Exploring EFL Learners' Willingness to Communicate and Emotional Changes

Yuanlin Deng, Kaiyu Wen, Daniel G. Dusza, Hui-Wen Huang
Shaoguan University, China

BAI24-5120
16:00-16:15



Task Allocation Optimization for Warehouse Autonomous Mobile Robot

Shiyue Hu, Shigeru Fujimura, Yunfei Feng
Waseda University, Japan

Best Presentation Award & Group Photo

Onsite Session 12

“Text Based Language Model and Sentiment Analysis”

Session Chair: Asst. Prof. Honggang Wang, Cal Poly Pomona, United States

Time: 15:00-16:15 (GMT+9), March 18, 2024

Venue: Conference Room 3, International Conference Center, Waseda University, Japan

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-4567
15:00-15:15



Typhoon-DIG: Distinguishing, Identifying and Geo-tagging Typhoon-Related Social Media Posts in Taiwan

Ben-Xiang Li, Chih-Yuan Chen
Chinese Culture University, Taiwan

BAI24-4020
15:15-15:30



A Corporate Financial Statement Fraud Model Based on Extracting Correlated Topic Features

Ching-Hsue Cheng
National Yunlin University of Science and Technology, Taiwan

BAI24-540
15:30-15:45



UniGen: Unified Generative Pre-training for Multilingual Multimodal Representation

Zheyuan Tian, Guan Luo, Bo Wang, Bing Li, Weiming Hu
Institute of Automation, Chinese Academy of Sciences, China

BAI24-5680
15:45-16:00



Automatic prediction of text readability for international Chinese Language education

Shuqin Zhu, Man Zhang, Dongdong Guo, Weiming Peng
Beijing Union University, China

BAI24-4114
16:00-16:15



Educational Support System for Children with Developmental Disabilities through Offline Large Language Models and Retrieval-Augmented Generation

Masaki Kato, **Makoto Koshino**, Sakiko Ogoshi, Yasuhiro Ogoshi
National Institute of Technology Ishikawa College, Japan

Best Presentation Award & Group Photo

Online Session 13

“Software and Information Technology”

Session Chair: Prof. Sheng-Wei Guan, Xi'an Jiaotong-Liverpool University, China

Time: 9:30-11:15 (GMT+9), March 18, 2024

Zoom ID: 878 2256 2480 <https://us02web.zoom.us/j/87822562480>

Note:

The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-5041
9:30-9:45



Short Interest Trend Prediction with Large Language Models
Zhaomin Xiao, Yachen Cui, Zhelu Mai, **Zhuoer Xu**, Jiancheng Li
Hewlett Packard Enterprise, United States

BAI24-560
9:45-10:00



Ensemble-learning-based android malware detection using hybrid features
Zan Li, Yinghua Zhou
Chongqing University of Posts and Telecommunications, China

BAI24-4127
10:00-10:15



The Dynamic Routing Load Balancing Algorithm based on Blockchain Platform
Yifei Luo, Xi Zhang, Xiaofeng Jia
Beijing Big Data Centre, China

BAI24-450E
10:15-10:30



Research and Data Analysis on Relationship Extraction Methods Based on Multi-Domain Texts
Shenghui Shi, **Zhangyan Li**, Lin Yin, Zhaoying Chai, Kechen Fan, Daguang Jiang, Liangfei Zheng, Dongqi Huang
Beijing University of Chemical Technology, China

BAI24-416A
10:30-10:45



Higher-order Link Prediction via Local Information
Bo Liu
University of Electronic Science and Technology of China, China

BAI24-4112
10:45-11:00



Adaptive Cognitive Diagnosis under Distribution Shift with a Double-level Adversarial Framework
Yuhong Zhang, **Chenyang Si**
Hefei University of Technology, China

BAI24-5013
11:00-11:15



Detection of greenwashing in ESG reports of Chinese listed companies based on Word2vec and TF-IDF
Yan Chen, Ding Ma
Wuhan University of Technology, China

Best Presentation Award & Group Photo

Online Session 14

“AI based Image Processing Technology and Methods”

Session Chair: Assoc. Prof. Jionglong Su, Xi'an Jiaotong-Liverpool University, China

Time: 9:30-11:15 (GMT+9), March 18, 2024

Zoom ID: 820 6516 3871 <https://us02web.zoom.us/j/82065163871>

Note:

The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-5051
9:30-9:45



Literature Review as a Service: A Human-Centered Artificial Intelligence Approach

Thang Le Dinh, Tran Duc Le, Sylvestre Uwizeyemungu, Chan Nam Nguyen
Université du Québec à Trois-Rivières, Canada

BAI24-4838
9:45-10:00



Text-Guided Co-Modulated Generative Adversarial Network for Image Inpainting

Chunjiang Fu, Minghao Wang, Qinghao Hu, Liang Zhao
Dalian University of Technology, China

BAI24-4999
10:00-10:15



Pseudo-Label Guided Partially View-aligned Clustering

Songtao Wu, Ruixin Ma, Qiongjie Xie, Liang Zhao
Dalian University of Technology, China

BAI24-5340
10:15-10:30



FINet: Fast point cloud Interpolation Network via Distance Transform

Chengshuai Tang, Zhiheng Li
Shenzhen International Graduate School, Tsinghua University, China

BAI24-5063
10:30-10:45



Improved YOLOv5 Fabric Defect Detection Method

Jiacheng Sun, Xiaoyan Guo, Chuanyan Zang, Xinyu Jia, Jie Yang, Haiyan Zhao, Yan Xu
Shandong University of Science and Technology Qingdao, China

BAI24-570
10:45-11:00



MTD-MVSNet: Multi-view Stereo Network with Multi-scale Transformer and Dual Attention

Yu Liang, Dongxu Duan, Yuhong Yuan, Kai Zhang
Shenzhen International Graduate School, Tsinghua University, China

BAI24-4101
11:00-11:15



Construction and Analysis of Knowledge Graph Based on Industrial Fault Diagnosis Data

Yanzhi Zhang, Weiqiang Qu, Zeyang Chen, Jiayi Zhang, Boyuan Zheng,
Shenghui Shi
Beijing University of Chemical Technology, China

Best Presentation Award & Group Photo

Online Session 15







“Machine Learning and Intelligent Computing”

Session Chair: Dr. Sureena Matayong, Prince of Songkla University, Thailand

Time: 13:00-14:30 (GMT+9), March 18, 2024

Zoom ID: 878 2256 2480 <https://us02web.zoom.us/j/87822562480>

Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-1105 13:00-13:15		<i>Machine learning-based web application for ADHD detection in children</i> Diego Oscar Alexander Porras , Gerson Antonio Mejia, Pedro Segundo Castañeda, Peruvian University of Applied Sciences, Perú
BAI24-4956 13:15-13:30		<i>An AI Framework For Predicting The Winner Of The Grammys</i> Rushabh Musthyala , Abhishek Narayanan, Anirudh Nistala, Anasse Bari New York University, USA
BAI24-4751 13:30-13:45		<i>Dual-GRU-GNN for Dynamic Blockchain Network Sharding</i> Xianghe Ye , Qingxu Di, Xinyuan Du, Ayong Bao, Shusong Xing Nankai University, China
BAI24-4120 13:45-14:00		<i>Integrating Spatio-Temporal Information for Forecasting Financial Indicators of Listed Companies</i> Yijie Teng , Rongmei Yang, Linyuan Lü University of Electronic Science and Technology of China, China
BAI24-4765 14:00-14:15		<i>Mining Organization-Related Fine-Grained Information: A Bias-corrected Multi-Turn Question Answering based Approach</i> Minjie Yuan , Yajun Ren, Haoda Qian, Xue Mao, Xina Zhang, Qiudan Li Institute of Automation, Chinese Academy of Sciences, China
BAI24-5160 14:15-14:30		<i>Systems Engineering Enhanced by AI-Driven Multiphysics Simulation</i> Janne Heilala University of Turku, Finland

Best Presentation Award & Group Photo

Online Session 16

“Big Data Science and Data Analysis”

Session Chair: Dr. Man Fung (Kelvin) Lo, The University of Hong Kong, Hong Kong

Time: 13:00-14:30 (GMT+9), March 18, 2024

Zoom ID: 820 6516 3871 <https://us02web.zoom.us/j/82065163871>

Note:

The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

BAI24-4658
13:00-13:15



Visualization Study on Suitability Evaluation of Land Spatial Agricultural Production in the Yangtze River Delta Based on Remote Sensing Big Data

Duanqiang Zhai, Jian Zhuo, **Yanyun Mao**
Tongji University, China

BAI24-4119
13:15-13:30



Risk Sensitive Distributional Soft Actor Critic for Portfolio Management

Jun Liu, Yanlong Wang, Shao-Lun Huang, Danny D. Sun
Shenzhen International Graduate School, Tsinghua University, China

BAI24-4122
13:30-13:45



Big Data, Spatial Economical Model and Ranking Size Rule

Li Zhang
Shandong University of Political Science and Law, China

BAI24-408E
13:45-14:00



Exploration and Implementation of Data Processing Methods in Admission and Enrollment for Adult Higher Education Institutions

Xuping Lin, Bin Wang, Yuejiang Sun, Lei Li
Qingdao Preschool Teachers College, China

BAI24-4549
14:00-14:15



Towards a Comprehensive Framework for Big Data in Higher Education

Taher Omran Ahmed
University of Technology and Applied Sciences, Sultanate of Oman

BAI24-509
14:15-14:30



Research on warehouse receipt pledge financing based on blockchain technology

Yuping Zhou, Kun Ma
Wuhan University of Technology, China

Best Presentation Award & Group Photo

Delegates

- ✦ Fengying Deng, Moloco, United States
- ✦ Yasuhiro Nakamura, National Defense Academy, Japan
- ✦ Ryan Alturki, Umm Al-Qura University, Saudi Arabia
- ✦ Ekaterina Dengina, National Institute for Materials Science, Japan
- ✦ Quan Zheng, University of Science and Technology of China, China
- ✦ Yuanyi Ma, University of Science and Technology of China, China
- ✦ Yu-Chieh Cheng, National Dong Hwa University, Taiwan
- ✦ Hsin-Jou Shih, National Dong Hwa University, Taiwan
- ✦ Yasser El Ouarrak, Sidi Mohamed Ben Abdellah University Fez, Morocco
- ✦ Jyoti Shetty, RV College of Engineering (affiliated with VTU), India
- ✦ Jayanth C, RV College of Engineering (affiliated with VTU), India
- ✦ Shobha G, RV College of Engineering (affiliated with VTU), India
- ✦ Masahiro Tanaka, Fukuoka University, Japan
- ✦ Jonghoon Chun, Myongji University, Republic of Korea
- ✦ Mohamed Ayaan, PES University, India
- ✦ Anirudh Rowjee, PES University, India
- ✦ Tomas Andor, BCG Partner and Associate Director, Customer Centricity, Germany
- ✦ Michel Verleysen, UCLouvain, Belgium
- ✦ Hugo Isac Bengt Olofsson, Kits AB, Sweden
- ✦ Yilun Zhang, Mozilla, Canada
- ✦ Zhishang Wang, The University of Aizu, Japan
- ✦ Pok Man SO, EMSD, Hong Kong

Waseda University



WASEDA
University

<https://www.waseda.jp/top/en/>

Waseda University (早稲田大学), abbreviated as Waseda (早稲田) or Sōdai (早大), is a private research university in Shinjuku, Tokyo. Founded in 1882 as the Tōkyō Professional School by the former Prime Minister of Japan, Ōkuma Shigenobu, the school was formally renamed Waseda University in 1902.

Waseda is organized into thirty-six departments: thirteen undergraduate schools and twenty-three graduate schools. As of 2023, there are 38,776 undergraduate students and 8,490 graduate students. In addition to a central campus in Shinjuku (Waseda Campus and Nishiwaseda Campus), the university operates campuses in Chūō, Nishitōkyō, Tokorozawa, Honjō, and Kitakyūshū. Waseda also operates 21 research institutes at its main Shinjuku campus. The university is selected as one of the “Top Type” (Type A) universities under MEXT's Top Global University Project. Waseda University has the highest entrance examination difficulty level among private universities in Japan.

Waseda University's main campus is located in the Nishi-Waseda district of Shinjuku. The nearest station is Waseda, although Waseda is generally associated with Takadanobaba on the Yamanote Line.

General rankings

In 2023, Waseda University ranked 199th overall, 118th in academic reputation, and 24th in employer reputation in the QS World University Rankings. By subject, Waseda University ranked 25th in Classics and Ancient History, 42nd in Modern Languages, 70th in Law and Legal Studies, 54th in Arts and Humanities, 50th in Politics, 77th in Social Science and Management, 40th in Sports Sciences, 51-100th in Business and Management, 128th in Economics and Econometrics, 101-150th in Engineering, 101-150th in Computer Science, and 115th in Mathematics in the QS World University Rankings by Subject.

Facilities

Famous museums on Waseda campuses include:

- Waseda University History Museum
<https://www.waseda.jp/culture/en/about/facilities/rekishikan/>
- The Tsubouchi Memorial Theatre Museum
<http://www.waseda.jp/enpaku/en/>

Museums



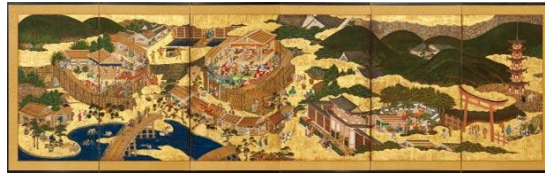
Waseda University History Museum <https://www.waseda.jp/culture/en/about/facilities/rekishikan/>



- **Introduction:** The Waseda University History for Tomorrow Museum provides rich resources of the University's history, from past to present and future. It does not only serve to present an overview of Waseda's history, but also to intrigue visitors, for instance by holding exhibitions of various themes periodically. Additionally, it is equipped with comprehensive facilities, such as a theater room and a research room, in which visitors can make full use of to look up or do research on the history of Waseda University. Moreover, there are also a café and a souvenir shop where visitors could rest and buy something to commemorate their visits.
- **Admission Fee:** Free of charge
- **Opening Hours:** Permanent Collection) 10:00-17:00; Special Exhibition) 10:00-17:00
- **Closed:** Wednesday & National Holidays
- **Address:** Building-1, 1-6-1 Nishi-Waseda, Shinjuku-ku, Tokyo, Japan 169-8050
- **Access:**
 - 7-minute walk from Tokyo Metro Tozai line Waseda station
 - 5-minute walk from Toden Arakawa line Waseda station

Museums

The Tsubouchi Memorial Theatre Museum <http://www.waseda.jp/enpaku/en/>



- **Introduction:** The museum collects source materials on the theatre and motion pictures, conducts surveys and research, and organizes and stores materials. The results of these activities are made available widely through exhibitions and other events, as well as via publications and online database. Enpaku also contributes to the broader dissemination of the culture of theatre through participation in regional exchange programs actively.
- **Admission:** Free of charge
- **Museum Opening Times:**
Exhibition rooms & library: 10:00 am to 5:00 pm (until 7:00 pm on Tuesdays and Fridays)
Rare & foreign-language book library, AV booths: Weekdays, 10:00 am to 5:00 pm
- **Museum closed:** ※ [Please visit Japanese website for information.](#)
- **Permanent Exhibitions:** http://www.waseda.jp/enpaku/ex/ex_cat/permanent/
- **Special Exhibitions:** http://www.waseda.jp/enpaku/ex/ex_cat/special/
- **Address:** 1-6-1 Nishi-waseda, Shinjuku-ku, Tokyo 169-8050
- **Access:**
7-minute walk from Tokyo Metro Tozai line Waseda station
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