

WI-IAT 2025 Conference Workshop Proposal

Workshop title.

The 14th International Workshop on Intelligent Data Processing (IDP2025)

Topics of interest covered by the workshop.

Improving data processing efficiency has attracted much attention from various research communities. Researchers in related fields are facing the challenges of data explosion, which demands enormous manpower for data processing, especially in the data-driven artificial intelligence areas. Artificial intelligence and intelligent systems offer efficient mechanisms that can significantly reduce the costs of processing large volume data and improve data processing quality. Practical applications have been developed in different areas including know-based data analysis, health informatics, big data analytics, data-driven machine learning, etc. Proposed length of the workshop: Half-day.

Workshop motivation & details.

This workshop aims to gather experts and scholars from related fields to present and share their recent research on intelligent data processing. The purpose of IDP is to provide a forum for discussion and interaction among researchers with interests in the cutting-edge techniques of intelligent data processing. A special attention is given to data-driven artificial intelligence applications, data mining, social networks, and health informatics. Participants are invited to submit papers in all areas of data- and knowledge-based approaches. Research topics of interest include, but are not limited to:

- Artificial Intelligence
- Big Data Analysis
- Brain Informatics and its applications
- Cloud Computing
- Cloud-based Health Informatics
- Data Mining & Machine Learning
- Image pattern recognition
- Knowledge Representation and Reasoning
- Online Data Analysis
- Optimisation Algorithms
- Virtual Reality Applications & Metaverse
- Online Social Media and Public Opinion

- Knowledge Representation and Reasoning
- Online Data Analysis
- Optimisation Algorithms
- Virtual reality for teaching
- Online Social Behavior in Education Sector
- Online Education Model amid COVID-19
- Online Social Media and Public Opinion
- Social Media Analytics
- New Media Analytics

Organisation and format: description of the intended organisation, the selection process for the contributors, and schedule of the event.

The workshop will be held in jointly by the following universities:

- Zhejiang University, Ningbo Institute of Technology, China
- Hong Kong Baptist University, Hong Kong, China

Workshop organizers.

- Haolan ZHANG, SCDM Centre NIT, Zhejiang University, China, haolan.zhang@nit.zju.edu.cn

Hao Lan Zhang received the PhD degree in computer science from Victoria University, Australia. He is currently an associate professor at NIT, Zhejiang University in China and the 151 Talented Scholar of Zhejiang Province. Prior to that, he was a research fellow and academic staff at RMIT University, Australia. He has published over 90 papers in refereed journals and conferences. His research interests include intelligent information systems, multiagent systems, health informatics, knowledge-based systems, data mining, etc. He serves as the editorial board member and a reviewer of several journals.

- Paolo MENGONI, Hong Kong Baptist University, Hong Kong, China, pmengoni@hkbu.edu.hk

Dr. Mengoni is Programme Director of the MSc in AI and Digital Media at Hong Kong Baptist University. Before joining Hong Kong Baptist University, he has been working as IT consultant and computer science researcher for more than 20 years. His research and teaching interests include artificial intelligence, complex network analysis, natural language processing, emotion recognition as well as autonomous agents. On these topics he has a record of international invited talks and publications. His papers have been published in several international conference and journals. He is an IEEE member and have been organising international workshops as well as exchange programmes. He

received his Ph.D. degree in Computer Science from University of Florence, Italy. He received his MSc (magna cum laude) and BSc in Computer Science from University of Perugia, Italy.

- Kristen (Yuanxi), LI, Hong Kong Baptist University, Hong Kong, China, csyxli@comp.hkbu.edu.hk

Dr. Li is Associate Programme Director of the MSc in AI and Data Analytics and of the MSc in IT Management at Hong Kong Baptist University. She received her Ph.D. degree in Computer Science and M.Sc. in IT Management from Hong Kong Baptist University. She joined the Department of Computer Science, Hong Kong Baptist University as a lecturer. She is a researcher focusing on Image Indexing and Retrieval, Multimedia Searching Engine.

Program committee: names and affiliations of potential pc members.

- Jiming Liu, Hong Kong Baptist University, Hong Kong, China
- Takehito Utsuro, University of Tsukuba, Japan
- Min Yao, Zhejiang University, China
- Yiu-ming Cheung, Hong Kong Baptist University, Hong Kong, China
- Jing He, Swinburne University, Australia
- David Taniar, Monash University, Australia
- Kristen (Yuanxi), Li, Hong Kong Baptist University, Hong Kong, China
- Clement Leung, Hong Kong Baptist University, Hong Kong, China
- Huiming Tang, Zhejiang University, China
- Yinming Li, Zhejiang University, China
- Gansen Zhao, South China Normal University, China
- Sanghyuk Lee, XJLU, China

Past IDP workshops

Previous Workshop are listed as below:

- IDP 2012 was held in Kunming, China in conjunction with APWeb2012. IDP 2012 attracted 21 submissions from Japan, Korea, Hong Kong, Taiwan, China, and India with a 33.3% acceptance rate. Each paper was carefully reviewed by two or three members of an international Program Committee (PC). Seven papers were selected to be included in this volume.
- IDP 2013 was held at NIT, Zhejiang University in Ningbo, China in conjunction with KSS2013 and Data Science Forum. IDP 2013 attracted 15 submissions from Australia, China and Hong Kong with a 40% acceptance rate. Each paper was

carefully reviewed by two or three members of an international Program Committee (PC). Six papers were selected to be included in this volume.

- IDP 2014 was held at Chinese Academy of Sciences in Shen Zhen, China in conjunction with ICDM 2014. ICDM IDP14 attracted 19 submissions from Australia, China, Saudi Arabia, United States and Hong Kong 5 countries and regions with 26.3% acceptance rate for regular papers.
- IDP2015 was held in Hangzhou, China in conjunction with 12th Beijing- Shanghai- Hangzhou High-tech Industrialize Cooperation Forum. Invited speakers including the Academician of Chinese Academy of Sciences.
- IDP2016 was held at Tongji University, China in conjunction with 9th IEEE/ACM International Conference on Utility and Cloud Computing (UCC). Seven papers were selected to be included in the proceeding.
- IDP2017 was held in Hong Kong, China in conjunction with The 13th International Conference on Computational Intelligence and Security.
- IDP2018 was held in USA in conjunction with First IEEE International Conference on Artificial Intelligence and Knowledge Engineering (AIKE). Five papers were selected to be included in the proceeding.
- IDP2019 was held in Ningbo, China in conjunction with 6th International Conference on Data Science (ICDS). Five papers were selected to be included in the proceeding.
- IDP2020 was held in Melbourne, Australia in conjunction with The 2020 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'20). Sixteen papers were selected to be included in the proceedings.
- IDP2021 was held in Melbourne, Australia in conjunction with The 2021 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WIIAT'21). Eight papers were selected to be included in the proceedings.
- IDP2022 was held hybrid in Canada in conjunction with The 2022 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WIIAT'22). Eight papers were selected to be included in the proceedings.
- IDP2023 was held hybrid in Italy in conjunction with The 2023 IEEE/WIC International Joint Conference on Web Intelligence and Intelligent Agent Technology (WIIAT'23). Seven papers were selected to be included in the proceedings.

- IDP2024 was held hybrid in Thailand in conjunction with The 2024 IEEE/WIC International Joint Conference on Web Intelligence and Intelligent Agent Technology (WIIAT'24). Seven papers were selected to be included in the proceedings.

