

Conference Program

ICKG 2023 will take place from December 1 to 2 (**Scheduled in Beijing Time**), 2023.

Important information for authors:

- each session has a session chair, includes several presentations, and runs for no more than three hours;
- each paper is given 15 minutes for presentation (12 mins for presentation, 3 mins for Q/A);
- live presentation is preferred instead of video;
- each presenting author will share his/her presentation file during the Voov/Tencent meeting session, no need to submit the PPT file to the conference before the session;
- session chairs will monitor and coordinate the presentation times, and the Q/A process.

<https://ickg2023.zhonghuapu.com/>

IEEE ICBK2023 Program (Online)
December 1 – December 2, 2023
Scheduled in Beijing time

Meeting time: 2023/12/01 09:00-16:00 (GMT+08:00) Beijing Time

Sessions: ICKG2023-Session K1, A1, A2

#Tencent Meeting ID: 258-954-052

#Tencent Meeting: <https://meeting.tencent.com/dm/I8YgrsDVY4UG>

Meeting time: 2023/12/01 09:00-16:00 (GMT+08:00) Beijing Time

Sessions: ICKG2023-Session B1, B2

#Tencent Meeting ID: 948-898-582

#Tencent Meeting: <https://meeting.tencent.com/dm/iEpbCwneyM2Z>

Meeting time: 2023/12/02 09:00-16:00 (GMT+08:00) Beijing Time

Sessions: ICKG2023-Session K2, A3, A4

#Tencent Meeting: <https://meeting.tencent.com/dm/XADFWi2SR7zs>

#Tencent Meeting ID: 130-561-883

Tips: you can participate in the online ICKG2023 conference as follows.

- 1) If you are not in China, please download the voov meeting software (International version of the Tencent meeting).

<https://voovmeeting.com/download-center.html?from=1002>

Otherwise, you can use the Tencent meeting software (Domestic version).

<https://meeting.tencent.com/download/>

- 2) After a simple registration (such as using your mobile phone number), please input the #Tencent Meeting ID mentioned for each session in the schedule, then you can enter the online meeting.

Day 1: December 1, 2023 (Beijing time)**Opening and Keynote Session K1 (09:00 – 10:30)**

09:00 – 09:30	Opening Session	Chair: Xindong Wu
09:30 – 10:30	Keynote Speech 1 (K1)	Enterprise Intelligent Manufacturing Practice (Ma Yushan, Academician of the Chinese Academy of Engineering)

Parallel Session A1 (10:30 – 12:00, December 1), Chair: **Jing Zhang****Machine Learning and Knowledge Graphs**

	Beijing/Hong Kong Time	PaperId	Author	Title
1	10:30-10:45	DM426	Abdullah Alchihabi, Qing En, Yuhong Guo	Efficient Low-Rank GNN Defense Against Structural Attacks
2	10:45-11:00	DM442	Yufei Li, Yanchi Liu, Haoyu Wang, Zhengzhang Chen, Wei Cheng, Yuncong Chen, Wenchao Yu, Haifeng Chen, Cong Liu	GLAD: Content-aware Dynamic Graphs for Log Anomaly Detection
3	11:00-11:15	DM980	Bin Yang, Liusiyuan Sun, Ying Xing, Jiawei Zhou, Chen Cheng	GAFM: Learning the Weights of feature interaction via Graph Attentional Factorization Machine
4	11:15-11:30	KG252	João Pedro Quadrado, Carlos Roberto Valêncio, Adriane Orenha Ottaiano, Geraldo Francisco Donega Zafalon, Luís Marcello Moraes Silva, Angelo Cesar Colombini	Generation of new bilingual dictionaries through inference techniques supported by a Graph Oriented Database Management System
5	11:30-11:45	DM804	Zhihui Zhang, Jianxiang Yu, Xiang Li	Context-aware Session-based Recommendation with Graph Neural Networks

6	11:45-12:00	KG201	Senthilkumar Vijayakumar, Filious Louis	Revolutionizing Staffing and Recruiting with Contextual Knowledge Graphs and QNLP: An End-to-End Quantum Training Paradigm
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Parallel Session A2 (14:00 – 15:30, December 1), Chair: Qingren Wang

Knowledge Graphs and NLP

	Beijing/Hong Kong Time	PaperId	Author	Title
1	14:00-14:15	KG316	Bofeng Zhang, Xiuhong Yao, Haiyan Li, Mirensa Aini	Chinese Medical Named Entity Recognition based on Expert Knowledge and Fine-tuning Bert
2	14:15-14:30	KG296	Qingren Wang, Ao Liu, Kang Yan, Juan Hou, Wei Li	BigFive: A Chinese Textual Dataset Supporting Psychology Knowledge Graph Construction
3	14:30-14:45	KG322	Fei Jie, Haijun Zhang, Jinxiang Wang, Zhenhua Yu	ASRDataset: A Multi-granularity Shuffle System for Preparing Large-scale ASR Training Data
4	14:45-15:00	KG242	Aizhen Yue, Dongsheng Guo, Zheng Zhang, Bingxin Chang, Dengrong Huang, Lianchao Zhang, Zhaoliang Chen, Yanpeng Chen, Wenzheng Shan, Qi Zhang, Enhao Zhan, Qilai Zhang, Rui Li, Shaoxiang Zhao, Zizhong Wei	A Study Case of Automatic Archival Research and Compilation using Large Language Models
5	15:00-15:15	DM936	Mohammad Iqbal, Tsamarah Rana Nugraha, Rosita Laili Udhiyah, Hsing-Kuo Pao	ASAGeR: Automated Short Answer Grading Regressor via Sentence Simplification
6	15:15-15:30	DM903	Jian Zhu, Mingkai Sheng, Mingda Ke, Wen Cheng, Liying Zhang, Lingfang Zeng	Deep Fusion Multi-View Hashing for Multimedia Retrieval

Parallel Session B1 (10:30 – 12:00, December 1), Chair: Pengpeng Zhao

Machine Learning for Time Series and Visualization				
	Beijing/Hong Kong Time	PaperId	Author	Title
1	10:30-10:45	KG315	Philippe A. Martin	Incremental Integration of Fragmented Knowledge Via the Edition Protocol of a Shared Knowledge Base
2	10:45-11:00	KG281	Lintai Cui, Liuqi Jin	Predicting ICU Pressure Injuries with Historical Data: A Multivariate Time Series Approach
3	11:00-11:15	KG319	Simon Schramm	Constructing the Simple Timeseries Event Model Knowledge Graph
4	11:15-11:30	DM1027	Chang Dong, Liangwei Zheng, Weitong Chen, Wei Zhang, Lin Yue	SWAP: Exploiting Second-Ranked Logits for Adversarial Attacks on Time Series
5	11:15-11:45	DM945	Ze Yang, Yimeng Sun, Takao Nakaguchi, Masaharu Imai	EMoDi: Entity-Enhanced Momentum-Difference Contrastive Learning for Semantic-Aware Verification of Scientific Information
6	11:45-12:00	DM460	Anjan Chowdhury, Swarup Chattopadhyay, Kuntal Ghosh, Gautam Das	NeuroANATOP: An Effective Tool to Assess the Progression of Alzheimer's disease in Human Brain Networks
Parallel Session B2 (14:00 – 15:30, December 1), Chair: Peipei Li				
Representation Learning, Semi-supervised Learning and Application				
	Beijing/Hong Kong Time	PaperId	Author	Title
1	14:00-14:15	DM1036	Dawei Li, Ying Guo, Di Liu, Yangkun Ren, Ruinan Hu, Zhenyu Guan	Client-Edge-Cloud Hierarchical Federated Learning Based on Generative Adversarial Networks

2	14:15-14:30	DM349	Junda Lu, Yukai Miao, Mingyang Chen, Bo Huang, Bing Li, Wei Wang, Dinusha Vatsalan, Mohamed Ali Kaafar	Distance Maximization and Defences on Deep Hashing Based Image Retrieval
3	14:30-14:45	KG250	Zelin Xu, Peipei Li	Decomposition and Combination-based Classifier Chains for Semi-Supervised Multi-Dimensional Classification
4	14:45-15:00	DM1007	Huidong Jin, Yaozhong Liu, Quanxi Shao, Ming Li	Postprocessing Ensemble Forecasts with Generative Adversarial Networks for Daily Precipitation
5	15:00-15:15	KG303	Zan Zhang, Depeng Zhang, Gongqing Wu	Multi-Label classification with Missing Labels by Preserving Feature-Label Space Consistency
6	15:15-15:30	DM515	Xiangyu Li, Umberto Gherardi, Armand Ovanessian, Hua Wang	Beyond the Simplex: Hadamard-Infused Deep Sparse Representations for Enhanced Similarity Measures

Day 2: December 2, 2023 (Beijing Time)**Keynote Session K2 (09:00 – 10:00, December 2, 2023)****Chair: Xindong Wu****09:00 – 10:00****Keynote Speech 2
(K2)****Varieties of General Intelligence
(Michael Wooldridge, University of Oxford)****Parallel Session A3 (10:00 – 11:30, December 2), Chair: **Chenyang Bu******Reasoning with Knowledge Graphs, Domain Knowledge Graphs, Knowledge Graph Analytics and Applications**

	Beijing/Hong Kong Time	PaperId	Author	Title
1	10:00-10:15	DM752	Guozhu Dong, Nicholas Skapura	GrMC: Towards Interpretable Classification Models That Are Also Accurate
2	10:15-10:30	DM1137	Lixi Gou, Renjie Zhou, Jian Wan, Jilin Zhang, Yue Yao, Chang Yang	Temporal Gate-Attention Network for Meta-path based Explainable Recommendation
3	10:30-10:45	DM793	Hyeonsoo Kim, Nuri Park, Juneyoung Park, Ling Wang	Accident analysis for Port Terminals using Heterogeneous XAI-informed Machine Learning Approach
4	10:45-11:00	KG231	wei zhao, Zhiyuan Guo, Fei Xie	Non-autoregressive Speech Synthesis by Fusion of CoordConv and Sound Quality
5	11:00-11:15	DM497	Zhihao Chen, Pengfei Jiao, Yinghui Wang , Huijun Tang, Jilin Zhang	Enhancing Network Alignment through Multi-Scale Information Fusion
6	11:15-11:30	KG318	Simon Schramm	Inductive Logic Programming for explainable graph clustering

Parallel Session A4 (14:00 – 15:15, December 2), Chair: **Zeyi Sun****Deep Learning and Application**

	Beijing/Hong Kong Time	PaperId	Author	Title
1	14:00-14:15	KG312	Menghao Guo, Fan Wu, Jinling Jiang, Xiaoran Yan, Guangyong Chen, Wenhui Li, Yunhong Zhao, Zeyi Sun	Investigations on Scientific Literature Meta Information Extraction Using Large Language Models
2	14:15-14:30	DM1108	Yizhang Zou, Xuegang Hu, Peipei Li	Online Multi-Label Classification with Scalable Margin Robust to Missing Labels
3	14:30-14:45	DM1066	Xin Liu, Siyu Tao, Jie Zheng	Meta Learning for Low-Data Prediction of Cancer-specific Synthetic Lethality as Drug Targets
4	14:45-15:00	KG310	Rui Shen, Hui-juan Zhu, Chang Li, Hua-hui Wei	GAResNet: A Transfer Learning based Framework for Android Malware Detection
5	15:00-15:15	KG230	Peng Wang, Zhiyuan Guo, Fei Xie	Layer Sparse Transformer for Speech Recognition