

The 16th International Conference on Advanced Data Mining and Applications
ADMA 2020 Program

Wednesday, November 11th, 2020

Location: Nanhai Jiayi International Hotel

10:00-21:00	Registration	Location: 1F
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Thursday, November 12th, 2020

Location: Neusoft Institute Guangdong

8:30-8:50	Opening Remarks & Welcome Speche, Professor Xue Li	Location: F218
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Keynote Speeches Location: F218 Session Chair: Xiaochun Yang		
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8:50-9:50	Chengqi Zhang, University of Technology Sydney Applications of Advanced Data Mining Techniques on Healthcare Data Analytics
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9:50-10:10	Tea Break
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10:10-11:10	Phoebe Chen, La Trobe University Data Mining for Novel Discovery in Bioinformatics and Medical Data Analytics
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11:10-12:10	Mohammed Bennamoun, The University of Western Australia Computer and Robot Vision
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12:30	Lunch	Location: Nanhai Jiayi International Hotel
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Parallel Session 1-1: Tutorial Location: F218 Session Chair: Xiangmin Zhou	Parallel Session 1-2: Presentation Location: Room 301, library Session Chair: Bohan Li	Parallel Session 1-3: Presentation Location: Room 302, library Session Chair: Xiaoling Wang
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14:00-15:00 Tutorial 1	SimpleMKKM: Simple Multiple Kernel K-means Xinwang Liu, National University of Defense Technology	14:00-14:15 Session 1-1	Motion Artifacts Detection from Computed Tomography Images, Xiaoyu Sun	14:00-14:15 Session 2-1	Influence Maximization based Active Learning in Noisy Setting, Yeliang Xiu
		14:15-14:30 Session 1-2	Role-aware Enhanced Matching Network for Multi-Turn Response Selection in Customer Service Chatbots, Guangxuan Zhao	14:15-14:30 Session 2-2	SS-AOE: Subspace based classification framework for avoiding over-confident errors, Wang Xinqi
		14:30-14:45 Session 1-3	Suicide Risk Assessment Model based on Fuzzy Mathematics, Yuan Xu	14:30-14:45 Session 2-3	Subspace-Weighted Consensus Clustering for High-Dimensional Data, Xiaosha Cai
		14:45-15:00 Session 1-4	High-quality Plane Wave Compounding using Deep Learning for Hand-held Ultrasound Devices, Guo	14:45-15:00 Session 2-4	STCNet: Spatial-Temporal Convolution Network for Traffic Speed Prediction, Mingjun Ma

15:00-16:00 Tutorial 2	Adversarial Learning in Deep Learning based Recommender Systems Lina Yao, University of New South Wales	15:00-15:15 Session 1-5	Brain CT Image Augmentation based on PGGAN and FBP for Artifact Detection, Che Wang	15:00-15:15 Session 2-5	Computational methods for predicting Autism Spectrum Disorder from gene expression data, Junpeng Zhang
		15:15-15:30 Session 1-6	Pre-trained StyleGAN based data augmentation for small sample brain CT motion artifacts detection, Kang Su	15:15-15:30 Session 2-6	Recursive RNN based Shift Representation Learning for Dynamic User-Item Interaction Prediction, Chengyu Yin
		15:30-15:45 Session 1-7	A TextCNN Model: A New Multi-Classification Method for Police Situation, Wang Wenhuan	15:30-15:45 Session 2-7	HisRec: Bridging Heterogeneous Information Spaces for Recommendation via Attentive Embedding, Jingwei Ma
		15:45-16:00 Session 1-8	Encrypted Traffic Classification using Graph Convolutional Networks, Shuang Mo	15:45-16:00 Session 2-8	SecureRec: Privacy-Preserving Recommendation with Distributed Matrix Factorization, Wenyan Liu

16:00-16:20	Tea Break
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Parallel Session 2-1: Tutorial Location: F218 Session Chair: Xiangmin Zhou	Parallel Session 2-2: Presentation Location: Room 301, library Session Chair: Jingwei Ma	Parallel Session 2-3: Presentation Location: Room 302, library Session Chair: Chuan Shi
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16:20-17:20 Tutorial 3	Travel Itinerary Recommendation Jeffrey Chan, Royal Melbourne Institute of Technology University	16:20-16:35 Session 5-1	Research of Medical Aided Diagnosis System Based on Temporal Knowledge Graph, Fanfei Song	16:20-16:35 Session 6-1	A Context-aware Computing Method of Sentence Similarity Based on Frame Semantics, Wenjing Liu
		16:35-16:50 Session 5-2	Low-Light Image Enhancement With Color Transfer Based On Local Statistical Feature, Zhigao Zhang	16:35-16:50 Session 6-2	DGRL: Text Classification with Deep Graph Residual Learning, Boyan Chen
		16:50-17:05 Session 5-3	IPMM: Cancer Subtype Clustering Model Based on Multiomics Data and Pathway and Motif Information, Xinpeng Guo	16:50-17:05 Session 6-3	Hierarchical and Pairwise Document Embedding for Plagiarism Detection, Ruitong Zhang
		17:05-17:20 Session 5-4	Personal Health Index based on Residential Health Examination, Guanjun Lai	17:05-17:20 Session 6-4	Blockchain-based Privacy Preserving Trust Management Model in VANET, Ruochen Liang

18:00	Dinner	Location: Nanhai Jiayi International Hotel
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Friday, November 13th, 2020

Location: Neusoft Institute Guangdong

Keynote Speeches		Location: F218		Session Chair: Chang-Dong Wang	
8:30-9:30	X. Sean Wang, Fudan University High-Performance Heterogeneous Data Processing for AI Applications				
9:30-9:50	Tea Break				
9:50-10:50	Shuqiang Jiang, University of Chinese Academy of Sciences Contextual Correlation Visual Media Understanding and Search				
10:50-11:50	Yu-Dong Zhang, University of Leicester Advances of deep learning-based COVID-19 Detection				
12:10	Lunch	Location: Nanhai Jiayi International Hotel			
Parallel Session 3-1: Tutorial Location: F218 Session Chair: Dong Huang		Parallel Session 3-2: Presentation Location: Room 301, library Session Chair: Senzhang Wang		Parallel Session 3-3: Presentation Location: Room 302, library Session Chair: Guojie Song	
14:00-15:00 Tutorial 4	Heterogeneous information network embedding: from static to dynamic Chuan Shi, Beijing University of Posts and Telecommunications	14:00-14:15 Session 3-1	Detecting Topic and Sentiment Dynamics Due to COVID-19 Pandemic Using Social Media, Hui Yin	14:00-14:15 Session 4-1	FabricGene: A higher-level feature representation of fabric patterns for nationality classification, Shuang Yu
		14:15-14:30 Session 3-2	Discriminative Features Generation for Mortality Prediction in ICU, Suresh Pokharel	14:15-14:30 Session 4-2	Online Community Identification Over Heterogeneous Attributed Directed Graphs, Zezhong Wang
		14:30-14:45 Session 3-3	Representing EHRs with Temporal Tree and Sequential Pattern Mining for Similarity Computing, Suresh Pokharel	14:30-14:45 Session 4-3	Decision support system for acupuncture treatment of ischemic stroke, Ying Shen
		14:45-15:00 Session 3-4	Tuser3: A profile matching based algorithm across three heterogeneous social networks, Atika Mbarek	14:45-15:00 Session 4-4	MPB: Multi-Peak Binarization for Pupil Detection, Chengkun He
15:00-16:00 Tutorial 5	Research Challenges and Opportunities of Knowledge Graph in Structural Health Monitoring Jianxin Li, Deakin University	15:00-15:15 Session 3-5	Loners stand out. Identification of anomalous subsequences based on group performance, Martha Tatusch	15:00-15:15 Session 4-5	Discovering High Utility Itemsets Using Set-Based Particle Swarm Optimization, Wei Song
		15:15-15:30 Session 3-6	Rice Leaf Diseases Recognition using Convolutional Neural Networks, Syed Md. Minhaz Hossain	15:15-15:30 Session 4-6	D2NE: Deep Dynamic Network Embedding, Chao Kong
		15:30-15:45 Session 3-7	Declarative User-Item Profiling Based Context-Aware Recommendation, Rosni Lumbantoran	15:30-15:45 Session 4-7	Optimizing Scorings and Sortings for Faster WAND Processing, Kun Jiang
		15:45-16:00 Session 3-8	MSPP: A Highly Efficient and Scalable Algorithm for Mining Similar Pairs of Points, Subrata Saha	15:45-16:00 Session 4-8	Query-Based Recommendation by HIN Embedding with PRE-LSTM, Zhuoming Liu
16:00-16:20	Tea Break				
Parallel Session 4-1: Tutorial Location: F218 Session Chair: Dong Huang		Parallel Session 4-2: Presentation Location: Room 301, library Session Chair: Senzhang Wang		Parallel Session 4-3: Presentation Location: Room 302, library Session Chair: Guojie Song	
16:20-17:20 Tutorial 6	Knowledge base enrichment via deep neural networks Jianzhong Qi, University of Melbourne	16:20-16:35 Session 5-5	Elaborating the Bayesian Priors in Unsupervised Graph Embedding via Graph Concepts, Xiaojun Ma	16:20-16:35 Session 6-5	A Neighbor-aware Group Recommendation Algorithm, Rong Pu
		16:35-16:50 Session 5-6	Cross Product And Attention Based Deep Neural Collaborative Filtering, Zhigao Zhang	16:35-16:50 Session 6-6	Applications of Big Data in Tourism: A Survey, Malika Becha
		16:50-17:05 Session 5-7	TOP-R Keyword-Aware Community Search, Xiaoxu Song	16:50-17:05 Session 6-7	NOV-RSI: A Novel Optimization Algorithm for Mining Rare Significance Itemsets, Huan Phan
		17:05-17:20 Session 5-8	Learning the Concept Embeddings of WordNet for Calculating Semantic Similarity, Jiangtao Qiu	17:05-17:20 Session 6-8	Densely Connected Bidirectional LSTM With Max-pooling of CNN Network for Text Classification, Qinghong Jiang
				17:20-17:35 Session 6-9	Evolutionary strategy for graph embedding, Jin Jin
18:00	Gala Dinner and Reward Session		Location: Nanhai Jiayi International Hotel		

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Saturday, November 14th, 2020

Workshop:Big Data& AI-Industry Cases&Innovation Research	
Location: Room 301, library Session Chair:Zhao Zhang	
9:00-9:20	Opening Remarks & Welcome Speech
9:20-9:40	Xue Li <i>Presentation 1</i> The Roadmap of AI, AI trends, AI Application Development Platforms
9:40-10:00	Dan Yu <i>Presentation 2</i> Intelligent Applications such as AI-enabled Chatbot
10:00-10:20	Guanjun Lai <i>Presentation 3</i> Personal Health Index based on Health Examination Records
10:20-10:40	Tea Break
10:40-11:00	Xinqi Wang <i>Presentation 1</i> Brain Stroke Diagnosis based on Clinical Electronic Medical Records
11:00-11:20	Xiaoyu Sun,Che Wang <i>Presentation 2</i> Motion Artifacts Detection from Computed Tomography (CT) Images
11:20-11:40	Baozhu Guo <i>Presentation 3</i> Ultrasonic Image Processing and Deep Learning
12:00	Lunch
14:00-17:00	City Tour
	End