

The 15th International Conference on Advanced Data Mining and Applications

2019 ADMA Program

Wednesday, November 20th, 2019

Location: Hi Chance (Dalian) Science & Technology Center

10:00-21:00	Registration	Location: 1F
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Thursday, November 21st, 2019

Location: DNUI

9:00-9:05	Opening Remarks & Welcome Speech, Professor Quan Guo		Location: A5-Room 602	
9:05-9:20	Opening Remarks & Welcome Speech, Professor Xue Li		Location: A5-Room 602	
Keynote Speeches Location: A5-Room 602 Session Chair: Yingqiu Li				
9:20-10:20	Chengqi Zhang/University of Technology Sydney/AI for Social Good <i>Keynote Speech</i>			
10:20-10:40	Tea Break			
10:40-11:30	Guoren Wang/Beijing Institute Of Technology/Big Data 2.0: Future Data Computing <i>Keynote Speech</i>			
11:30	Lunch		Location: Dining Hall, DNUI	
Parallel Session 1-1: Invited Talk Location: A5-Room 203 Session Chair: Chuan Shi			Parallel Session 1-2: Data Mining Foundations Location: A5-Room 202 Session Chair: Guodong Long	
13:00-13:40	Ming Zhong/Wuhan University/ An Introduction to Big Graph Analytics Approaches and Applications <i>Invited talk 1</i>	13:00-13:20	Acquah Hackman/Mining Emerging High Utility Itemsets over Streaming Database <i>Presentation1</i>	
		13:20-13:40	Han Han/A Methodology for Resolving Heterogeneity and Interdependence in Data Analytics <i>Presentation2</i>	
13:40-14:20	Changdong Wang/Sun Yat-sen University/Higher-Order Community Detection <i>Invited talk 2</i>	13:40-14:00	Yun Han/Learning Subgraph Structure with LSTM for Complex Network Link Prediction <i>Presentation3</i>	
		14:00-14:20	Mo Li/Accelerating Minimum Temporal Paths Query Based on Dynamic Programming <i>Presentation4</i>	
14:20-15:00	Senzhang Wang/Nanjing University of Aeronautics and Astronautics/AI Empowered Spatio-Temporal Data Mining for Smart City: Challenges, Solutions, and Applications <i>Invited talk 3</i>	14:20-14:40	Yun Li/Multiple Query Point based Collective Spatial Keyword Querying <i>Presentation5</i>	
		14:40-15:00	Kaveh Mahdavi/Unsupervised Feature Selection for Noisy Data <i>Presentation6</i>	
15:00-15:30	Tea Break			
Parallel Session 2-1: Data Mining Foundations & Classification and Clustering Methods Location: A5-Room 203 Session Chair: Saiful Islam		Parallel Session 2-2: Classification and Clustering Methods & Recommender Systems Location: A5-Room 202 Session Chair: Changdong Wang		
15:30-15:50	Jiali Pang/Tri-level Cross-domain Sign Prediction for Complex Network <i>Presentation1</i>	15:30-15:50	Paul Grant/Clustering Noisy Temporal Data <i>Presentation1</i>	
15:50-16:10	Huan Phan/An Efficient Mining Algorithm of Closed Frequent Itemsets on Multi-Core Processor <i>Presentation2</i>	15:50-16:10	Paul Grant/A Novel Approach for Noisy Signal Classification through the use of Multiple Wavelet and Ensembles of Classifiers <i>Presentation2</i>	
16:10-16:30	Benoit Vuillemin/TSRuleGrowth: Mining Partially-ordered Prediction Rules from a Time Series of Discrete Elements, Application to a Context of Ambient Intelligence <i>Presentation3</i>	16:10-16:30	May S. Altulyan/Reminder Care System: An Activity-aware Cross-device Recommendation System <i>Presentation3</i>	
16:30-16:50	Mengqian Zhang/HGTPU-tree: an Improved Index Supporting Similarity Suery of Uncertain Moving Objects for Frequent Updates <i>Presentation4</i>	16:30-16:50	Yizhu Cai/Similar Group Finding Algorithm based on Temporal Subgraph Matching <i>Presentation4</i>	
16:50-17:10	Zhimin Zhang/Robust Feature Selection Based on Fuzzy Rough Sets with Representative Sample <i>Presentation5</i>	16:50-17:10	Robert K-Iopotek/Traditional PageRank versus Network Capacity Bound <i>Presentation5</i>	
17:10-17:30	Philippe Fournier-Viger/HUE-SPAN: Fast High Utility Episode Mining <i>Presentation6</i>	17:10-17:30	Jingwei Ma/RecKGC: Integrating Recommendation with Knowledge Graph Completion <i>Presentation6</i>	
18:00	Buffet		Location: 5F, A5, DNUI	

The 15th International Conference on Advanced Data Mining and Applications

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Friday, November 22nd, 2019

Location: DNUl

Keynote Speeches Location: A5-Room 602 Session Chair: Sen Wang			
9:00-10:00	Vincent S. Tseng/National Chiao Tung University/TBread and Deep Learning of Big Heterogeneous Health Data for Medical AI <i>Keynote Speech</i>		
10:00-10:30	Tea Break		
10:30-11:30	Hongzhi Yin/The University of Queensland/Network Embedding-based Geo-social Recommendation <i>Keynote Speech</i>		
11:30	Lunch Location: Dining Hall, DNUl		
Parallel Session 3-1: Invited Talk Location: A5-Room 203 Session Chair: Xin Wang		Parallel Session 3-2: Recommender Systems & Social Network and Social Media Location: A5-Room 202 Session Chair: Wentong Chen	
13:00-13:40	Yong Xiang/Deakin University/Privacy Protection in Practical Applications <i>Invited talk 4</i>	13:00-13:20	Rubai Mao/PMRE-GTS: A New Successive POI Recommendation Model With Temporal and Social Influences <i>Presentation1</i>
		13:20-13:40	Ismail Alaqta/Precomputing Hybrid Index Architecture for Flexible Community Search Over Location-Based Social Networks <i>Presentation2</i>
13:40-14:20	Fuzhen Zhuang/Chinese Academy of Sciences/The Research on Transfer Learning <i>Invited talk 5</i>	13:40-14:00	Xiacong Chen/Distributed Expert Representation Learning in Question Answering Community <i>Presentation3</i>
		14:00-14:20	Han Gao/Improving the Link Prediction by Exploiting the Collaborative and Context-aware social Influence <i>Presentation4</i>
14:20-15:00	Guojie Song/Peking University/Network Representation Learning <i>Invited talk 6</i>	14:20-14:40	Humayun Kayesh/A Causality Driven Approach to Adverse Drug Reactions Detection in Tweets <i>Presentation5</i>
		14:40-15:00	Arunchaitanya Mandalapu/Correlate influential news article events to stock quote movement <i>Presentation6</i>
15:00-15:30	Tea Break		
Parallel Session 4-1: Social Network and Social Media & Behavior Modeling and User Profiling Location: A5-Room 203 Session Chair: Yong Xiang		Parallel Session 4-2: Behavior Modeling and User Profiling & Text and Multimedia Mining Location: A5-Room 202 Session Chair: Senzhang Wang	
15:30-15:50	Can Wang/Top-N Hashtag Prediction via Coupling Social Influence and Homophily <i>Presentation1</i>	15:30-15:50	SiYu Ren/Research on Interactive Intent Recognition Based on Facial Expression and Line of Sight Direction <i>Presentation1</i>
15:50-16:10	Yunwei Zhao/Unfolding the Mixed and Intertwined: A Multilevel View of Topic Evolution on Twitter <i>Presentation2</i>	15:50-16:10	Nigel Franciscus/Mining Summary of Short Text with Centroid Similarity Distance <i>Presentation2</i>
16:10-16:30	Weitong Chen/DANMTRNN: Delta Attention Networks based Multi-task RNNs for Intention Recognition <i>Presentation3</i>	16:10-16:30	Ning Jia/Children's Speaker Recognition Method Based on Multi-dimensional Features <i>Presentation3</i>
16:30-16:50	Meng-Chieh Lee/DeepIdentifier: A Deep Learning-Based Lightweight Approach for User Identity Recognition <i>Presentation4</i>	16:30-16:50	Jie Li/Constructing Dictionary to Analyze Features Sentiment of a Movie Based on Danmakus <i>Presentation4</i>
16:50-17:10	Zhihui Li/Domain-aware Unsupervised Cross-dataset Person Re-identification <i>Presentation5</i>	16:50-17:10	Weixiang Li/Single Image Dehazing Algorithm Based on Sky Region Segmentation <i>Presentation5</i>
17:10-17:30	Ying Niu/Invariance Matters: Person Re-identification by Local Color Transfer <i>Presentation6</i>	17:10-17:30	Molefe Vicky Mleya/Online Aggregated-event Representation for Multiple Event Detection in Videos <i>Presentation6</i>
18:00	Gala Dinner and Reward Session Location: Building G, Neusoft Park (Dalian)		

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Saturday, November 23rd, 2019

Location: DNUl

Parallel Session5-1:Text and Multimedia Mining Location: A9-Room 217 Session Chair: Guojie Song		Parallel Session 5-2: Spatial-Temporal Data & Medical and Healthcare Data/Decision Analytics Location: A9-Room 219 Session Chair: Hongzhi Yin	
9:00-9:15	Zhenggang Wang/Standard Deviation Clustering Combined With Visual Psychological Test Algorithm for Image Segmentation <i>Presentation1</i>	9:00-9:15	Yunhao Cheng/Spatial-Temporal Recurrent Neural Network for Anomalous Trajectories Detection <i>Presentation1</i>
9:15-9:30	Pengju Zhang/Fast Video Clip Retrieval Method via Language Query <i>Presentation2</i>	9:15-9:30	Niyonzima Ibrahim/Spatiotemporal Crime Hotspots Analysis and Crime Occurrence Prediction <i>Presentation2</i>
9:30-9:45	Chunjun Zheng/Research on Speech Emotional Feature Extraction Based on Multidimensional Feature Fusion <i>Presentation3</i>	9:30-9:45	Hend Amraoui/Fast Bat Algorithm for Predicting Diabetes Mellitus <i>Presentation3</i>
9:45-10:00	Jiayi Zhu/Improved Algorithms for Zero Shot Image Super-Resolution with Parametric Rectifiers <i>Presentation4</i>	9:45-10:00	Shaowen Qin/Using a Virtual Hospital for Piloting Patient Flow Decongestion Interventions <i>Presentation4</i>
10:00-10:30	Tea Break		
Parallel Session 6-1: Medical and Healthcare Data/Decision Analytics Location: A9-Room 217 Session Chair: Guojie Song		Parallel Session 6-2: Other Applications Location: A9-Room 219 Session Chair: Hongzhi Yin	
10:30-10:45	Zhenkun Shi/Deep Interpretable Mortality Model for Intensive Care Unit Risk Prediction <i>Presentation1</i>	10:30-10:45	Senjian An/Efficient Gaussian Distance Transforms for Image Processing <i>Presentation1</i>
10:45-11:00	Sitthichoke Subpaiboonkit/Causality Discovery with Domain Knowledge for Drug-Drug Interactions Discovery <i>Presentation2</i>	10:45-11:00	Lilia Ben Baccar/Tourist's Tour Prediction by Sequential Data Mining Approach <i>Presentation2</i>
11:00-11:15	Chandra Prasetyo Utomo/Personalised Medicine in Critical Care using Bayesian Reinforcement Learning <i>Presentation3</i>	11:00-11:15	Tao Bo/TOM: A Threat Operating Model for Early Warning of Cyber Security Threats <i>Presentation3</i>
11:15-11:30	Zhijin Wang/TDDF: HFMD Outpatients Prediction based on Time Series Decomposition and Heterogenous Data Fusion in Xiamen, China <i>Presentation4</i>	11:15-11:30	Baoting Jia/Prediction for Student Academic Performance Using SMNaive Bayes Model <i>Presentation4</i>
11:30	Lunch Location: Dining Hall, DNUl		
Parallel Session 7-1: Other Applications Location: A9-Room 217 Session Chair: Bohan Li		Parallel Session 7-2: Other Applications & Demos Location: A9-Room 219 Session Chair: Junchang Xin	
13:00-13:15	Xianwei Jiang/Chinese Sign Language Identification via Wavelet Entropy and Support Vector Machine <i>Presentation1</i>	13:00-13:15	Darren Yates/DataLearner: A Data-Mining and Knowledge Discovery Tool for Android Smartphones and Tablets <i>Presentation1</i>
13:15-13:30	Jiajia Li/An Efficient Multi-request Route Planning Framework based on Grid Index and Heuristic Function <i>Presentation2</i>	13:15-13:30	Zhi-Yu Ye/Prediction of Customer Purchasing Power of Google Merchandise Store <i>Presentation2</i>
13:30-13:45	Qiangyi Li/Nodes Deployment Optimization Algorithm Based on Fuzzy Data Fusion Model of Wireless Sensor Networks <i>Presentation3</i>	13:30-13:45	Shaosheng Yu/Research on Short-term Traffic Flow Forecasting Based on KNN and Discrete Event Simulation <i>Presentation3</i>
13:45-14:00	Christian Lu/Community Enhanced Record Linkage Method for Vehicle Insurance System <i>Presentation4</i>	13:45-14:00	Dongqing Zhang/Application of Weighted K-means Decision Cluster Classifier in the Recognition of Infectious Expressions of Primary School Students Reading <i>Presentation4</i>
14:00-14:15	Yimin Lv/COEA: An Efficient Method for Entity Alignment in Online Encyclopedias <i>Presentation5</i>	14:00-14:15	Guoming Zhang/An Anti-fraud Framework for Medical Insurance Based on Deep Learning <i>Presentation5</i>
14:15-14:30	Guohao Qiao/MLCA: A Multi-Label Competency Analysis Method Based on Deep Neural Network <i>Presentation6</i>	14:15-14:25	Xinyu Ma/BSI: A System for Predicting and Analyzing Accident Risk <i>Presentation6</i>
14:30-14:45	Weifeng Sun/MACCA: A SDN based Collaborative Classification Algorithm for QoS guaranteed Transmission on IoT <i>Presentation7</i>	14:25-14:35	Dawei Xu/KG3D: An Interactive 3D Visualization Tool for Knowledge Graphs <i>Presentation7</i>
		14:35-14:45	Changlin Li/Competition Winner Presentation, Team name-MMVG <i>Presentation8</i>
15:00-15:30	Campus Tour		
15:30-17:30	City Tour		

Health Data Science Workshop 昆士兰大学东软集团健康数据研讨会 Sunday, November 24th 2019 (2019年 11 月 24 日 星期日) Location: DNUI	
Location: A9-Room217 (地点: A9-217室)	
9:00-9:20	Professor Xiaofang Zhou Opening Remarks & Welcome Speeches
9:20-9:40	Professor Xue Li Clinical medical big data search engine 临床医疗大数据搜索引擎 <i>Presentation 1</i>
9:40-10:00	Chandra Prasetyo Utomo Personalised Medicine in Critical Care 重症监护中的个性化医疗 <i>Presentation 2</i>
10:00-10:20	Suresh Pokharel Temporal Tree Representation for Similarity Computation between Medical Patients and a Use Case: ICU Patient Mortality Prediction 基于时序树的患者相似性计算: ICU患者死亡率预测 <i>Presentation 3</i>
10:20-10:40	Tea Break 茶歇
10:40-11:00	Sitthichoke Subpaiboonkit Causality Discovery with Domain Knowledge for Drug-Drug Interactions Discovery 基于领域知识的药物交互作用的发现 <i>Presentation 1</i>
11:00-11:20	Weitong Chen Predicting Illness Severity from Electronic Health Records 基于电子健康记录疾病预测 <i>Presentation 2</i>
11:20-11:40	Yanjun Zhang Privacy-Preserving Methods for Genome-wide Analysis 全基因组分析的隐私保护方法 <i>Presentation 3</i>
11:40-12:00	Harrisen Scells Improving Systematic Review Creation With Information Retrieval 通过信息检索改善系统评价的创建 <i>Presentation 4</i>
12:00	Lunch 午餐
Location: A9-Room217 (地点: A9-217室)	
13:00-13:20	Dan Yu The Privacy-perservation issues in the Clinical Medical Big Data 临床医疗大数据的隐私保护问题 <i>Presentation 1</i>
13:20-13:40	Bing Liu Towards Robust Medical Knowledge Graph 医学知识图的构建与应用 <i>Presentation 2</i>
13:40-14:00	Bin Zhang Bioluminescence Tomography Guided Radiation Therapy for Preclinical Irradiation Research 生物发光断层成像引导小动物放射治疗 <i>Presentation 3</i>
14:00-14:20	TBA <i>Presentation 4</i>
14:20-16:50	Workshop Group Discussion
16:50-17:00	Professor Xue Li Wrap Up and Award Session 会议总结