PAKDD2017

The Pacific-Asia Conference on Knowledge Discovery and Data Mining
May 23-26, 2017, Jeju, South Korea

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Program Overview

Program at a Glance

May 23, 2017 (Tuesday)				
08:00 ~ 08:30	Registration (1st Floor Lobby)			
	Diamond	**Crystal**	**Sapphire**	**Rose**
08:30 ~ 10:00	Tutorial 1	Tutorial 2	Workshop	Workshop
	Text Similarity Search within Homogenous and Heterogenous Document Collections	Advances in Recommender System	BDM	PAISI
10:00 ~ 10:30	Coffee Break			
10:30 ~ 12:00	Text Similarity Search within Homogenous and Heterogenous Document Collections	Advances in Recommender System	BDM	PAISI
12:00 ~ 13:30	Lunch			
13:30 ~ 15:30	Tutorial 3	Workshop	BDM	PAISI
	Large Scale Tensor Anaysis	DM-BPM		
15:30 ~ 16:00	Coffee Break			
16:00 ~ 18:00	Workshop	DM-BPM		
	MLSDA			
18:00 ~ 20:00	Reception (Diamond Hall)			

May 24, 2017 (Wednesday)				
08:00 ~ 08:30	Registration (1st Floor Lobby)			
08:30 ~ 09:00	Conference Opening (Diamond Hall)			
09:00 ~ 10:00	Keynote speech: Sangkyun Cha (Diamond Hall)			
10:00 ~ 10:20	Coffee Break			
	Diamond	**Crystal**	**Sapphire**	**Rose**
10:20 ~ 12:25	Research 1	Research 2	Research 3	Research 4
	Classification and Deep Learning (I) (Chair: Tomoya Iwakura)	Social Network and Graph Mining (I) (Chair: Balaji Vasan Srinivasan)	Privacy-Preserving Mining and Security / Risk Applications (Chair: Hoai An Le Thi)	Spatio-Temporal and Sequential Data Mining (I) (Chair: Jaideep Srivastava)
12:25 ~ 14:00	Lunch			
14:00 ~ 15:45	Research 5	Research 6	Research 7	Research 8
	Classification and Deep Learning (II) (Chair: Sotirios Chatzis)	Social Network and Graph Mining (II) (Chair: Yongqing Wang)	Clustering and Anomaly Detection (Chair: Khalid Benabdeslem)	Recommender Systems (Chair: Guandong Xu)
15:45 ~ 16:10	Coffee Break			
16:10 ~ 17:40	Research 9	Research 10	Research 11	
	Feature Selection (Chair: Min-Ling Zhang)	Social Network and Graph Mining (III) (Chair: Grigorios Loukides)	Text and Opinion Mining (I) (Chair: Younghoon Kim)	

May 25, 2017 (Thursday)				
08:30 ~ 09:00	Registration (1st Floor Lobby)			
09:00 ~ 10:00	Keynote speech: Rakesh Agrawal (Diamond Hall)			
10:00 ~ 10:20	Coffee Break			
	Diamond	**Crystal**	**Sapphire**	**Rose**
10:20 ~ 12:25	Research 12	Research 13	Research 14	Research 15
	Clustering and Matrix Factorization (Chair: Qiuyang Liu)	Social Network and Graph Mining (IV) (Chair: Jiuding Duan)	Spatio-Temporal and Sequential Data Mining (II) (Chair: Chulyun Kim)	Dynamic, Stream Data Mining (Chair: Naresh Manwani)

12:25 ~ 13:30	Lunch
13:30 ~ 18:00	Excursion
18:00 ~	Banquet

May 26, 2017 (Friday)				
09:00 ~ 10:00	Keynote speech: Dacheng Tao (Diamond Hall)			
10:00 ~ 10:20	Coffee Break			
	Diamond	**Crystal**	**Sapphire**	**Rose**
10:20 ~ 12:25	Research 16	Research 17	Research 18	Research 19
	Novel Models and Algorithms (I) (Chair: Khoat Than)	Text and Opinion Mining (II) (Chair: Manjira Sinha)	Behavioral Data Mining (Chair: Joonho Kwon)	Social Network and Graph Mining (V) (Chair: Gill Dobbie)
12:25 ~ 14:00	Lunch			
14:00 ~ 15:15	Research 20	Research 21	Research 22	Research 23
	Novel Models and Algorithms (II) (Chair: Philippe Fournier-Viger)	Graph Clustering and Community Detection (Chair: Uday Kiran Rage)	Dimensionality Reduction (Chair: Jerry Chun-Wei Lin)	Classification and Deep Learning (III) (Chair: Manoj Chinnakotla)
15:15 ~ 15:40	Closing Ceremony (Diamond Hall)			

Research sessions

Research 1: Classification and Deep Learning (I)

Chair: Tomoya Iwakura, Fujitsu Laboratories Ltd.

Convolutional Bi-Directional LSTM for Detecting Inappropriate Query Suggestions in Web Search

HARISH YENALA*, IIIT HYDERABAD; Manoj Chinnakotla, Microsoft, India; Jay Goyal, Microsoft, India

A Fast and Easy Regression Technique for k-NN Classification Without Using Negative Pairs

Yutaro Shigeto, Nara Institute of Science and Technology; Masashi Shimbo*, "Nara Institute of Science and Technology, Japan"; Yuji Matsumoto, Nara Institute of Science and Technology

Deep Network Regularization via Bayesian Inference of Synaptic Connectivity

Harris Partaourides, ; Sotirios Chatzis*, Cyprus University of Technolog

Adaptive One-Class Support Vector Machine for Damage Detection in Structural Health Monitoring

Ali Anaissi*, DATA61|CSIRO; Khoa Nguyen Lu Dang, Data61, CSIRO, Australia; Samir Mustapha, American University of Beirut, Lebanon; Mehrisadat akki Alamdari, Data61, CSIRO, Australia; Ali Braytee, University of Technology Sydney, Australia; Yang Wang, yang.wang@data61.csiro.au; Fang Chen, Data61, CSIRO, Australia

A Classification model for Diverse and Noisy Labelers

Hao-en Sung, National Taiwan University; Cheng-Kuan Chen*, National Taiwan University; Han Xiao, ; Shou-De Lin, NTU

Research 2: Social Network and Graph Mining (I)

Chair: Balaji Vasan Srinivasan, Adobe Research

Beyond Assortativity: Proclivity Index for Attributed Networks (ProNe)

Reihaneh Rabbany*, Carnegie Mellon University; Dhivya Eswaran, Carnegie Mellon University; Artur Dubrawski, Carnegie Mellon University; Christos Faloutsos, Carnegie Mellon University

Hierarchical Mixed Neural Network for Joint Representation Learning of Social-Attribute Network

Weizheng Chen*, Peking University; Jinpeng Wang, Microsoft Research; Zhuoxuan Jiang, Peking University; Yan Zhang, Peking University; Xiaoming Li, Peking University

Cost-effective viral marketing in the Latency Aware Independent Cascade model

Robert Gwadera, Cardiff University; Grigorios Loukides*, King's College London

DSBPR: Dual Similarity Bayesian Personalized Ranking

Longfei Shi*, Bupt; Bin Wu, ; jing zheng, Beijing University of Posts and Telecommunications; Chuan Shi, "Beijing University of Posts and Telecommunications, China"; Mengxin Li, Bupt

Usage Based Tag Enhancement of Images

Balaji Srinivasan*, Adobe Research; Noman Ahmed Sheikh, IIT Delhi; Roshan Kumar, IIT Kanpur; Saurabh Verma, IIT Rourkee; Niloy Ganguly, IIT Kharagpur

Research 3: Privacy-Preserving Mining and Security / Risk Applications

Chair: Hoai An Le Thi, University of Lorraine

Partitioning-based mechanisms under personalized differential privacy

Haoran Li*, Emory University; Li Xiong, ; Xiaoqian Jiang, ; Zhanglong Ji,

Efficient Cryptanalysis of Bloom Filters for Privacy-Preserving Record Linkage

Peter Christen*, "The Australian National University, Australia"; Rainer Schnell, City University London; Dinusha Vatsalan, The Australian National University; Thilna Ranbaduge, Australian National University

Energy-Based Localized Anomaly Detection in Video Surveillance

Hung Vu*, Deakin University; Tu Nguyen, Deakin University; Anthony Travers, Defence Science and Technology Organization (DSTO), Australia; Svetha Venkatesh, Deakin University; Dinh Phung, "Deakin University, Australia"

A fast Fourier transform-coupled machine learning-based ensemble model for disease risk prediction using a real-life dataset

RAID LAFTA*, University of southern Queensl; Ji Zhang, USQ; Xiaohui (Daniel) Tao, "The University of Southern Queensland, Australia"; Yan Li, USQ; Vincent S Tseng, National Chiao Tung University; Wessam Abbas, University of Southern Queensland; Yonglong Luo, School of Mathematics and Computer Science, Anhui

Normal University, China; Fulong Fulong Chen, School of Mathematics and Computer Science, Anhui Normal University, China

Assessing Death Risk of Patients with Cardiovascular Disease from Long-term Electrocardiogram Streams Summarization

Shenda Hong, Peking University; Meng Wu, ; Jinbo Zhang, ; Hongyan Li*,

Research 4: Spatio-Temporal and Sequential Data Mining (I)

Chair: Jaideep Srivastava, Qatar Foundation

On the Robustness of Decision Tree Learning under Label Noise

Aritra Ghosh*, Microsoft; Naresh Manwani, IIIT Hyderabad; P. S. Sastry, "Indian Institute of Science,Bangalore, India"

Relevance-based Evaluation Metrics for Multi-class Imbalanced Domains

Paula Branco*, INESC Tec/LIAAD; FCUP; Luís Torgo, ; Rita Ribeiro,

Location Prediction Through Activity Purpose: Integrating Temporal and Sequential Models

Dongliang Liao*, USTC; Yuan Zhong, Northeastern University, Boston, MA, USA; Jing Li, University of Science and Technology of China, Hefei, China

Modeling Temporal Behavior of Awards Effect on Viewership of Movies

Basmah Altaf*, KAUST; Faisal Kamiran, Information Technology University, Pakistan; Xiangliang Zhang, KAUST

A Physarum-inspired Ant Colony Optimization for Community Mining

Mingxin Liang*, Southwest University; Gao Chao, cgao@swu.edu.cn; Xianghua Li, ; Zili Zhang,

A Novel Diversity Measure for Understanding Movie Ranks in Movie Collaboration Networks

Manqing Ma, Jilin University; Wei Pang, School of Natural and Computing Sciences, University of Aberdeen, Aberdeen, AB24; Lan Huang, ; Zhe Wang*, College of Computer Science and Technology, Jilin University

Local-to-Global Unsupervised Anomaly Detection from Temporal Data

Seif-eddine Benkabou*, University Lyon 1 ; khalid Benabdeslem, university of Lyon 1; bruno Canitia, Lizeo Online Media Group

Research 5: Classification and Deep Learning (II)

Chair: Sotirios Chatzis, Cyprus University of Technology

Automatic Discovery of Common and Idiosyncratic Latent Effects in Multilevel Regression

Minhazul Islam Sk*, University of Florida; Arunava Banerjee, "University of Florida, USA"

A Deep Neural Network for Pairwise Classification: Enabling Feature Conjunctions and Ensuring Symmetry

Kyohei Atarashi*, Hokkaido University; Satoshi Oyama, Hokkaido University; Masahito Kurihara, Hokkaido University; Kazune Furudo, NEC Solution Innovators, Ltd.

Feature Ranking of Large, Robust, and Weighted Clustering Result

Mirka Saarela*, University of Jyväskylä; Joonas Hämäläinen, ; Tommi Kärkkäinen,

Purchase Signatures of Retail Customers

Clement Gautrais*, University of Rennes 1; Peggy Cellier, INSA Rennes; Thomas Guyet, ; Rene Quiniou, ; Alexandre Termier,

Volatility Adaptive Classifier System

Ruolin Jia, The University of Auckland; Yun Sing Koh*, "The University of Auckland, New Zealand"; Gillian Dobbie, The University of Auckland

Distributed Representations for Words on Tables

Minoru Yoshida*, Tokushima University; Kazuyuki Matsumoto, ; Kenji Kita,

Link Prediction for Isolated Nodes in Heterogeneous Network by Topic-based Co-Clustering

Katsufumi Tomobe*, Keio University; Masafumi Oyamada, NEC corporation; Shinji Nakadai, NEC corporation

Research 6: Social Network and Graph Mining (II)

Chair: Yongqing Wang, Institute of Computing Technology, Chinese Academy of Sciences

Edge Role Discovery via Higher-order Structures

Nesreen Ahmed*, Intel Labs; Ryan Rossi, Xerox PARC; ted Willke, Intel Labs; Rong Zhou, Palo Alto Research Center

Efficient bi-level variable selection and application to estimation of multiple covariance matrices

Duy Nhat Phan*, University of Lorraine; Hoai An Le Thi, University of Lorraine; Tao Pham Dinh, INSA–Rouen

Entity Set Expansion with Meta Path in Knowledge Graph

Yuyan Zheng*, Beijing University of Posts and Telecommunications; Chuan Shi, "Beijing University of Posts and Telecommunications, China"; xiaohuan Cao, Beijing University of Posts and Telecommunications; Xiaoli Li, ; Bin Wu,

Using Network Flows to Identify Users Sharing Extremist Content on Social Media

Yifang Wei*, Georgetown University; Lisa Singh, Georgetown University

MC3: A Multi-Class Consensus Classification Framework

Tanmoy Chakraborty*, University of Maryland, USA; Des Chandhok, University of Maryland, College Park, USA; V.S Subrahmanian, University of Maryland, College Park, USA

Monte Carlo Based Incremental PageRank on Evolving Graphs

Qun Liao, Nankai University; Shuangshuang Jiang, ; Min Yu, ; Yulu Yang*, ; Tao Li, Nankai University

Joint Weighted Nonnegative Matrix Factorization for Mining Attributed Graphs

Zhichao Huang, Shenzhen Graduate School, Harbin Institute of Technology; Yunming Ye*, ; Xutao Li, ; Feng Liu, Harbin Institute of Technology, Shenzhen; Huajie Chen, Harbin Institute of Technology, Shenzhen

Research 7: Clustering and Anomaly Detection

Chair: Khalid Benabdeslem, University of Lyon1

A Targeted Retraining Scheme of Unsupervised Word Embeddings for Specific Supervised Tasks

Pengda Qin, BUPT; Weiran Xu*, Beijing University of Posts and Telecommunications; Jun Guo, Beijing University of Posts and Telecommunications

A Neural Joint Model for Extracting Bacteria and Their Locations

Fei Li*, Wuhan University; Meishan Zhang, School of Computer Science and Technology, Heilongjiang University, China; Guohong Fu, School of Computer Science and Technology, Heilongjiang University, China; Donghong Ji, School of Computer, Wuhan University, Wuhan, China

ADVANCED COMPUTATION OF SPARSE PRECISION MATRICES FOR BIG DATA

Abdelkader Baggag*, Hamad Bin Khalifa University; Halima Bensmail, Hamad Bin Khalifa University; Jaideep Srivastava,

Accurate Recognition of the Current Activity in the Presence of Multiple Activities

Weihao Cheng*, The University of Melbourne; Sarah Erfani, The University of Melbourne; Rui Zhang, The University of Melbourne; Ramamohanarao Kotagiri, The University of Melbourne

Modeling Information Sharing Behavior on Q&A Forums

Biru Cui*, RIT; Shanchieh Yang, RIT; Christopher Homan, RIT

Effective Multiclass Transfer For Hypothesis Transfer Learning

Shuang Ao*, Western University; Xiang Li, Western University; charles Ling, University of Western Ontario

Clustering Based on Dominant Set and Cluster Expansion

Jian Hou*, Bohai University; Weixue Liu,

Research 8: Recommender Systems

Chair: Guandong Xu, University of Technology Sydney

Friend recommendation considering preference coverage in location-based social networks

Fei Yu*, Harbin Institute of Technology; Nan Che, Harbin University of Science and Technology; Zhijun Li, harbin institute of technology; Kai Li, Harbin University of Science and Technology; shouxu Jiang, harbin institute of technology

Contrast Pattern Based Collaborative Behavior Recommendation for Life Improvement

Yan Chen*, York University; Margot Yann, York University; Heidar Davoudi, ; Joy Choi, ; Aijun An, "York University, Canada"; Zhen Mei,

Exploiting Location Significance and User Authority for Point-of-Interest Recommendation

Yonghong Yu*, Nanjing University; Hao Wang, Nanjing University; Yang Gao, "Nanjing University, China"; Shuanzhu Sun,

Personalized Ranking Recommendation via Integrating Multiple Feedbacks

Jian Liu, BUPT; Chuan Shi*, "Beijing University of Posts and Telecommunications, China"; Binbin Hu, Beijing University of Posts an; Shenghua Liu, ICT,CAS; Philip Yu, UIC

Fairness Aware Recommendations on Behance

Natwar Modani*, Adobe Research; Deepali Jain, Adobe Research; Ujjawal Soni, IIT, Madras; Gaurav Gupta, IIT, Roorkee; Palak Agarwal, IIT, Kanpur

A Performance Evaluation Model for Taxi Cruising Path Recommendation System

Huimin Lv*, CUG; Zhongwen Luo, CUG; Fang Fang, CUG; Yishi Zhao, CUG; Yuanyuan Liu, CUG

MaP2R: A Personalized Maximum Probability Route Recommendation Method Using GPS Trajectories

Ge Cui, University of Calgary; Xin Wang*, "University of Calgary, Canada"

Research 9: Feature Selection

Chair: Min-Ling Zhang, Southeast University

SNE: Signed Network Embedding

Shuhan Yuan, Tongji University; Xintao Wu*, University of Arkansas; Yang Xiang, Tongji University

mHUIMiner: A Fast High Utility Itemset Mining Algorithm for Sparse Datasets

Yuxuan(Alex) Peng, University of Auckland; Yun Sing Koh*, "The University of Auckland, New Zealand"; Patricia Riddle, "University of Auckland, New Zealand"

Partial tree-edit distance: a solution to the default class problem in pattern-based tree classification

Maciej Piernik*, Poznan University of Technolog; Tadeusz Morzy, Poznan University of Technology

A Domain-Agnostic Approach to Spam-URL Detection via Redirects

Heeyoung Kwon, Stony Brook University; Mirza Baig, Stony Brook University; Leman Akoglu*, Carnegie Mellon University

Automatic and Effective Mining of Coevolving Online Activities

Thinh Minh Do*, Kumamoto University; Yasuko Matsubara, "Kumamoto University, Japan"; Yasushi Sakurai, Kumamoto University

Keeping priors in streaming Bayesian learning

Anh Nguyen Duc*, HUST; Linh Ngo Van, Hanoi University of Science and Technology; Anh Nguyen Kim, ; Khoat Than, "Hanoi University of Science and Technology, Vietnam"

Research 10: Social Network and Graph Mining (III)

Chair: Grigorios Loukides, King's College London

Prediciing Happiness State Based on Emotion Representative Mining in Online Social Networks

Xiao Zhang, Nanjing University; Li Wenzhong*, ; Hong Huang, ; Cam Tu Nguyen, ; Xu Chen, ; Xiaoliang Wang, ; Sanglu Lu,

Exploring Celebrities for Twitter User Geolocation Inference

Mohammad Ebrahimi*, University od New South Wales; Elaheh ShafieiBavani, University of New South Wales; Raymond Wong, University of New South Wales; Fang Chen, University of New South Wales

Do Rumors Diffuse Differently from Non-rumors? A Systematically Empirical Analysis in Sina Weibo for Rumor Identification

Yahui Liu*, Institute; Xiaolong Jin, ict; Huawei Shen, ICT,CAS

Investigating the Dynamics of Religious Conflicts by Mining Public Opinions on Social Media

Swati Agarwal*, IIIT Delhi; Ashish Sureka, ABB Corporate Research Center, Bangalore

Mining High-Utility Itemsets with both Positive and Negative Unit Profits from Uncertain Databases

Wensheng Gan, Harbin Institute of Technology Shenzhen Graduate School; Jerry Chun-Wei Lin*, "Harbin Institute of Technology Shenzhen, China"; Philippe Fournier-Viger, Harbin Institute of Technology Shenzhen Graduate School; Han-Chieh Chao, ; Vincent S Tseng, National Chiao Tung University

Sparse Stochastic Inference with Regularization

Tung DOAN*, SOKENDAI-Japan; Khoat Than, "Hanoi University of Science and Technology, Vietnam"

Research 11: Text and Opinion Mining (I)

Chair: Younghoon Kim, Hanyang University

Efficient Training of Adaptive Regularization of Weight Vectors for Semi-structured Text

Tomoya Iwakura*, Fujitsu Laboratories Ltd.

Behavior-based Location Recommendation on Location-Based Social Networks

Seyyed Mohammadreza Rahimi, University of Calgary; Xin Wang*, "University of Calgary, Canada"; Behrouz Far, University of Calgary

Integer Linear Programming for Pattern Set Mining; with an Application to Tiling

Abdelkader Ouali*, University of Caen Normandy; Albrecht Zimmermann, University of Caen Normandy; Samir Loudni, University of Caen Normandy; Yahia Lebbah, University of Oran 1; Bruno Cremilleux, "Universite de Caen, France"; Patrice Boizumault, University of Caen Normandy; Lakhdar Loukil, University of Oran 1

Secured Privacy Preserving Data Aggregation with Semi-honest Servers

Zhigang Lu*, The University of Adelaide; Hong Shen, "Adelaide University, Australia"

Multi-task Representation Learning for Enhanced Emotion Categorization in Short Text

Anirban Sen*, ; Manjira Sinha, Xerox Research Centre India; Sandya Mannarswamy, Xerox Research Centre India; shourya Roy, Xerox Research Centre India

Research 12: Clustering and Matrix Factorization

Chair: Qiuyang Liu, East China Normal University

Multi-View Matrix Completion for Clustering with Side Information

Peng Zhao*, Nanjing University; Yuan Jiang, Nanjing University; Zhi-Hua Zhou, Nanjing University

Weighted NMF-based Multiple Sparse Views Clustering for Web items

Xiaolong Gong*, Shanghai Jiao Tong University; Fuwei Wang, Shanghai Jiao Tong University; Linpeng Huang, Shanghai Jiao Tong University

Parallel Visual Assessment of Cluster Tendency on GPU

Tao Meng*, Tsinghua University; Bo Yuan,

Clustering Complex Data Represented as propositional formulas

Abdelhamid Boudane*, CRIL/Artois university; said Jabbour, CRIL/Artois university; Lakhdar Sais, CRIL/Artois university; Yakoub Salhi, CRIL/Artois university

Deep Bayesian Matrix Factorization

Sotirios Chatzis*, Cyprus University of Technolog

Research 13: Social Network and Graph Mining (IV)

Chair: Jiuding Duan, Kyoto University

Exploring Check-in Data to Infer Social Ties in Location Based Social Networks

Gunarto Sindoro Njoo*, National Chiao Tung University; Min-Chia Kao, National Chiao Tung University; Kuo-Wei Hsu, National Chengchi University; Wen-Chih Peng, "National Chiao Tung University, Taiwan"

Scalable Twitter User Clustering Approach boosted by Personalized PageRank

Anup Naik*, Yahoo Japan Corporation; Hideyuki Maeda, ; Sumio Fujita, ; Vibhor Kanojia,

An Enhanced Markov Clustering Algorithm based on Physarum

Mingxin Liang*, Southwest University; Gao Chao, cgao@swu.edu.cn; Xianghua Li, ; Zili Zhang,

Exploiting Geographical Location for Team Formation in Social Coding Sites

Yuqiang Han*, Zhejiang University; Yao Wan, Zhejiang University; Liang Chen, Sun Yat-Sen University; Guandong Xu, "University of Technology Sydney, Australia"; Jian Wu, Zhejiang University

Weighted Simplicial Complex: A Novel Approach for Predicting Small Group Evolution

Ankit Sharma*, University of Minnesota; Terrence Moore, Army Research Lab; Ananthram Swami, Army Research Lab; Jaideep Srivastava,

Research 14: Spatio-Temporal and Sequential Data Mining (II)

Chair: Chulyun Kim, Sookmyung Women's University

Mining Temporal Fluctuating Patterns

Shan-Yun Teng, National Cheng Kung University; Cheng-Kuan Ou, National Cheng Kung University; Kun-Ta Chuang*, "National Cheng Kung University, Taiwan"

Maked Temporal Dynamics based on Recurrent Neural Network

Yongqing Wang*, ICT, CAS; Shenghua Liu, ICT,CAS; Huawei Shen, ICT,CAS; Jinhua Gao, ICT, CAS; Xueqi Chen, ICT,CAS

Mining of Location-Based Social Networks for Spatio-temporal Social Influence

Yu-Ting Wen*, National Chiao Tung University; Yi Yuan Fan, ; Wen-Chih Peng, "National Chiao Tung University, Taiwan"

Multi-perspective Hierarchical Dirichlet Process for Geographical Topic Modeling

Yuan He*, Tongji University; cheng Wang, TongJi University; Changjun Jiang,

Enumerating Non-Redundant Association Rules Using Satisfiability

Abdelhamid Boudane*, CRIL/Artois university; said Jabbour, CRIL/Artois university; Lakhdar Sais, CRIL/Artois university; Yakoub Salhi, CRIL/Artois university

Research 15: Dynamic, Stream Data Mining

Chair: Naresh Manwani, International Institute of Information Technology

Mining Competitive Pairs Hidden in Co-location Patterns from Dynamic Spatial Databases

Junli Lu*, Yunnan University; Lizhen Wang, "Yunnan University, China"; Yuan Fang, Yunnan University; momo Li, Yunnan Minzu University

Utility Aware Clustering for Publishing Transactional Data

Michael Bewong*, University of South Australia; Jixue Liu, University of South Australia; Lin Liu, University of South Australia; Jiuyong Li, "University of South Australia, Australia"

Self-Tuning Filers — Overload Prediction and Preventive Tuning using Pruned Random Forest

Kumar Dheenadayalan, IIIT-Bangalore; Gopalakrishnan Srinivasaraghavan*, IIIT-B; Muralidhara V.N., IIIT-B

Web-Scale Personalized Real-Time Recommender System on Suumo

Shiyingxue Li*, Recruit Sumai Company; Shimpei Nomura, ; Yohei Kikuta, Freelance; Kazuma Arino,

Modeling Contextual Changes In User Behaviour In Fashion e-Commerce

Ashay Tamhane*, Myntra; Sagar Arora, ; Deepak Warrier,

Weighted Ensemble Classification of Multi-label Data Streams

Lulu Wang, Beijing Jiaotong University; Hong Shen*, School of Computer Science, University of Adelaide, Australia; Hui Tian, School of Electronics and Information Engineering, Beijing Jiaotong University,

SS-FIM: Single Scan for Frequent Itemsets Mining in Transactional Databases

Youcef Djenouri, UNIST; Marco Comuzzi*, UNIST; Djamel Djenorui, CERIST Center Research

Research 16: Novel Models and Algorithms (I)

Chair: Khoat Than, Hanoi University of Science and Technology

Improving One-class Collaborative Filtering with Manifold Regularization by Data-driven Feature Representation

Yen-Chieh Lien*, Academia Sinica; Pu-Jen Cheng, National Taiwan University

Stable Bayesian Optimization

Thanh Nguyen*, Deakin University; Sunil Gupta, "Deakin University, Australia"; Santu Rana, "Deakin University, Australia"; Svetha Venkatesh, Deakin University

An Exponential Time-Aware Recommendation Model for Mobile Notification Services

Chenglin Zeng*, Tsinghua University; Laizhong Cui, ; Zhi Wang,

Discovering Periodic Patterns in Non-Uniform Temporal Databases

Rage Kiran*, The university of Tokyo; Venkatesh N, IIIT Hyderabad; Philippe Fournier-Viger, Harbin Institute of Technology Shenzhen Grad. School; Krishna Reddy, IIIT-Hyderabad; Masashi Toyoda, The University of Tokyo; Masaru Kitsuregawa, university of tokyo

Discovering both Explicit and Implicit Similarities for Cross-Domain Recommendation

Quan Do*, UTS; Wei Liu, "University of Technology Sydney, Australia"; Fang Chen, Data61, CSIRO, Australia

Research 17: Text and Opinion Mining (II)

Chair: Manjira Sinha, Conduent Labs

Fine-grained Emotion Detection in Contact Center Chat Utterances

Shreshtha Mundra*, Xerox; Anirban Sen, ; Manjira Sinha, Xerox Research Centre India; Sandya Mannarswamy, Xerox Research Centre India; Sandipan Dandapat, ; shourya Roy, Xerox Research Centre India

Dependency-tree Based Convolutional Neural Networks for Aspect Term Extraction

Hai Ye*, Beihang University; Zichao Yan, Beihang University; Zhunchen Luo, China Defense Science and Technology Information Center; Wenhan Chao, Beihang University

Topic Modeling over Short Texts by Incorporating Word Embeddings

Jipeng Qiang*, Hefei University of Technology; Ping Chen, University of Massachusetts Boston; Tong Wang, University of Massachusetts Boston; Xindong Wu,

Mining Drug Properties for Decision Support in Dental Clinics

Wee Goh*, University of Southern Queensl; Xiaohui Tao, ; Ji Zhang, USQ; Jianming Yong,

PURE: a Novel Tripartite Model for Review Sentiment Analysis and Recommendation

Yue Xue*, BUPT; Liutong Xu, Telecommunications Software Engineering Group, school of computer science, Beiji; hai Huang, Telecommunications Software Engineering Group, school of computer science, Beiji; Yao Cheng,

Research 18: Behavioral Data Mining

Chair: Joonho Kwon, Pusan National University

Unsupervised Embedding for Latent Similarity by Modeling Heterogeneous MOOC Data

Zhuoxuan Jiang*, Peking University; Shanshan Feng, Nanyang Technological University; Weizheng Chen, Peking University; Guangtao Wang, University of Michigan; Xiaoming Li, Peking University

Matrix-based Method for Inferring Variable Labels Using Outlines of Data in Data Jackets

Teruaki Hayashi*, The University of Tokyo; Yukio Ohsawa, The University of Tokyo

Integrating Reviews into Personalized Ranking for Cold Start Recommendation

Guang-Neng Hu, HKUST; Xin-Yu Dai*, Nanjing University, China

Taste or Addiction?: Using Play Logs to Infer Song Selection Motivation

Kosetsu Tsukuda*, National Institute of Advanced; Masataka Goto, National Institute of Advanced Industrial Science and Technology (AIST)

Understanding Drivers' Safety by Fusing Large Scale Vehicle Recorder Dataset and Heterogeneous Circumstantial Data

Daisaku Yokoyama*, The University of Tokyo; Masashi Toyoda, The University of Tokyo; Masaru Kitsuregawa, university of tokyo

Research 19: Social Network and Graph Mining (V)

Chair: Gill Dobbie, The University of Auckland

A P-LSTM Neural Network for Sentiment Classification

Chi Lu, Beijing Institute of Technology; heyan Huang*, Beijing University of Technology; Ping Jian, Beijing Institute of Technology; Dan Wang, Beijing Institute of Technology; Yi-Di Guo, Beijing Institute of Technology

Learning what matters – Sampling interesting patterns

Vladimir Dzyuba*, KU Leuven; Matthijs van Leeuwen, Leiden University

PNE: Label Embedding Enhanced Network Embedding

Weizheng Chen*, Peking University; Xianling Mao, Beijing Institute of Technology ; Xiangyu Li, Department of Automation, Tsinghua University; Yan Zhang, Peking University; Xiaoming Li, Peking University

Improving Temporal Record Linkage using Regression Classification

Yichen Hu*, Australian National University; Qing Wang, Australian National University; Dinusha Vatsalan, The Australian National University; Peter Christen, "The Australian National University, Australia"

Community Detection in Graph Streams by Pruning Zombie Nodes

Yue Ding, Sun Yat-Sen university; Ling Huang, Beijing Institute of Technology; Chang-Dong Wang*, Sun Yat-sen University; Dong Huang,

Bilingual Lexicon Extraction from Comparable Corpora based on Closed Concepts Mining

Mohamed Chebel*, Research Laboratory LIPAH, Fac; Chiraz Latiri, ; Eric Gaussier, "LIG, France"

Collective Geographical Embedding for Geolocating Social Network Users

Fengjiao Wang*, UIC; Chun-Ta Lu, ; Yongzhi Qu, Wuhan University of Technology; Philip Yu, UIC

Research 20: Novel Models and Algorithms (II)

Chair: Philippe Fournier-Viger, Harbin Institute of Technology

Mining reccurrent patterns in a dynamic attributed graph

ZHI CHENG, PPME; Frédéric Flouvat, PPME / UNC; Nazha SELMAOUI-FOLCHER*, PPME / UNC

Multi-view Regularized Gaussian Processes

Qiuyang Liu*, East China Normal University; Shiliang Sun, East China Normal University

A Neural Network Model for Semi-supervised Review Aspect Identification

Ying Ding*, Singapore Management Universit; Changlong Yu, Singapore Management University; Jing Jiang, Singapore Management University

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Research 21: Graph Clustering and Community Detection

Chair: Uday Kiran Rage, University of Tokyo

Query-oriented Graph Clustering

Li-Yen Kuo*, National Taiwan University; Chung-Kuang Chou, National Taiwan University; Ming-Syan Chen, "National Taiwan University, Taiwan"

CCCG: Clique Conversion Ratio Driven Clustering of Graphs

Prathyush Sambaturu*, IIIT Hyderabad; Kamalakar Karlapalem, IIIT Hyderabad

Mining Cohesive Clusters with Interpretations in Labeled Graphs

Hongxia Du*, Xi'an Jiaotong University; Heli Sun, ; Liang He, ; Zhongbin Sun, ; Jianbin Huang, ; Hong Cheng, "The Chinese University of Hong Kong, China"

A SAT-based Framework for Overlapping Community Detection in Networks

said Jabbour, CRIL/Artois university; Nizar Mhadhbi, CRIL-CNRS UMR 8188; Badran Raddaoui*, CRIL - CNRS UMR 8188; Lakhdar Sais, CRIL/Artois university

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Research 22: Dimensionality Reduction

Chair: Jerry Chun-Wei Lin, Harbin Institute of Technology

Denoising Autoencoder as an effective dimensionality reduction and clustering of text data

Milad Leyli abadi*, Paris Descartes University; Lazhar Labiod, Paris Descartes University; Mohamed Nadif, Paris Descartes University

Gradable Adjective Embedding for Commonsense Knowledge

Kyungjae Lee*, Yonsei University; Seung-won Hwang, "Yonsei University, Korea"; Hyunsouk Cho, Postech

Combining dimensionality reduction with random forests for multi-label classification under interactivity constraints

Noureddine Yassine NAIR BENREKIA*, Technicolor; Pascale KUNTZ, University of Nantes; Frank MEYER, Orange Labs

A Generalized Model for Multidimensional Intransitivity

Jiuding Duan*, Kyoto University; Jiyi Li, Kyoto University; Yukino Baba, Kyoto University; Hisashi Kashima,

Research 23: Classification and Deep Learning (III)

Chair: Manoj Chinnakotla, Microsoft

Predicting Destinations from Partial Trajectories Using Recurrent Neural Network

Yuki Endo*, NTT Service Evolution Laboratories; Kyosuke Nishida, NTT Service Evolution Laboratories; Hiroyuki Toda, NTT Service Evolution Laboratories; Hiroshi Sawada, NTT Service Evolution Laboratories

Preventing Inadvertent Information Disclosures via Automatic Security Policies

Tanya Goyal*, Adobe Research; Sanket Mehta, Adobe research; Balaji Srinivasan, Adobe Research

Personalized Deep Learning for Tag Recommendation

Hanh T.H. Nguyen*, University of Hildesheim; Martin Wistuba, ; Josif Grabocka, ; Lucas Drumond, ; Lars Schmidt-Thieme,

Information-theoretic Non-redundant Subspace Clustering

Nina Hubig*, Frau; Claudia Plant, University Vienna

Cost Matters: A New Example-Dependent Cost-Sensitive Logistic Regression Model

Nikou Günnemann*, Technical University of Munich; Jürgen Pfeffer, Technical University of Munich

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