

Conference Program:

		Dec. 18, 2017		Dec. 19, 2017	
08:10	09:10	Register(IB-202)		Keynote Speech 3: (IB-201) Prof. Yan Yang, Southwest Jiaotong University ,China	
09:10	09:30	Opening ceremony		Break	
09:30	10:30	Keynote Speech 1: (IB-202) Prof. Yi Pan Georgia State University, USA		Keynote Speech 4: (IB-201) Prof. Muhammad Khurram Khan, King Saud University, Saudi Arabia	
10:30	10:50	Break		Break	
10:50	11:50	Keynote Speech 2: (IB202) Prof. Tianrui Li Southwest Jiaotong University ,China		Keynote Speech 5: (IB-201) Prof. Shen Hong University of Adelaide, Australia	
11:50	13:00	Break		Break	
13:00	15:00	1A(IB-202)	1B(IB-607)	3A(IB-201)	3B(IB-511-1)
		1	6	28	35
		2	7	39	36
		3	8	30	37
		4	9	31	38
		5	10	32	39
			11	33	40
		34	41		
15:00	15:20	Break		Break	
15:20	18:20	2A(IB-202)	2B(IB-607)	4A(IB-201)	4B(IB-511-1)
		12	20	42	50
		13	21	43	51
		14	22	44	52

		15	23	45	53
		16	25	46	54
		17	26	47	55
		18	27	48	56
		19		49	57
18:30	19:30	Reception(IB-Area B)		Banquet(IB-Area B)	

		Dec. 20,017			
08:00	10:20	5A(IB-201)		5B(IB-408)	
		58		64	
		59		65	
		60		66	
		61		67	
		62		68	
		63		69	
				70	
10:20	10:40	Break			
10:40	12:20	6A(IB-201)		6B(IB-408)	
		71		75	
		72		76	
		73		77	
		74		78	
24					
12:20	13:30	Break			
13:30	19:00	Short trip(gather at school gate)			

Section 1A: Security and Privacy

Section chair: Shih-Chien Chang, National Taiwan University

1	A privacy-preserving Cloud-based Data Management System with Efficient Revocation Scheme	Shih-Chien Chang,Ja-Ling Wu
2	Paper title: A New Colluded Adversarial VNet embeddings Attack in Cloud	Jung-Shian Li, Tay-Jiun Fang, I-Hsien Liu, Meng-Wei Sun, Chuan-Gang Liu
3	Analysis on the Security and Use of Password Managers	Carlos Luevanos, John Elizarraras, Khai Hirschi, and Jyh-haw Yeh
4	Development of an Intelligent Equipment Lock Management System with RFID Technology	Yeh-Cheng Chen, C. N. Chu, H. M. Sun, Jyh-haw Yeh, Ruey-Shun Chen
5	A new lower bound of privacy budget for distributed differential privacy	Zhigang Lu, Hong Shen

Section 1B: Algorithms and Applications

Section chair: Song Liu, Xi'an Jiaotong University

6	An efficient locality-aware task assignment algorithm for minimizing shared cache contention	Song Liu, Xiao Xie, Yuanzhen Cui, Weiguo Wu
7	Tax-based Mechanisms for Resource Scaling-out of Stream Big Data Analytics	Xiaoyuan Fu, Jingyu Wang, Qi Qi, Jianxin Liao,Tonghong Li
8	IBBAS: A Visual Analytics System of Large-scale Traffic Data for Bus Body Advertising	Xue Zhang, Yibo Wang
9	Unconscious Behavior Detection for Pedestrian Safety Based on Gesture Features	Yaru Dong, Yidong Li, Wenhua Liu, Jun Wu
10	Profit-Aware Workload Management for Geo-Distributed Data Centers	Yongqiang Gao, Hengchao Wei

11	Parallel Implementation of Local Similarity Search for Unstructured Text using Prefix Filtering	Manu Agrawal, Kartik Manchanda, Ribhav Soni, Anurag Lal, C. Ravindranath Chowdary
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Section 2A: Algorithms and Applications

Section chair: Frédéric Loulergue, School of Informatics, Computing, and Cyber Systems, Northern Arizona University, Flagstaff, USA

12	Efficient Algorithms for VM placement in Cloud Data Centers	Hui Tian, Jiahuai Wu, Hong Shen
13	An exact algorithm for the biobjective 0-1 linear knapsack problem with a single continuous variable	Hongtao Liu
14	NMFDIV: A Nonnegative Matrix Factorization Approach for Search Result Diversification on Attributed Networ	Zaiqiao Meng, Hong Shen
15	A Fusion Financial Prediction Strategy Based on RNN and Representative Pattern Discovery	Lu Zhang, Xiaopeng Fan, Chengzhong Xu.
16	Combining Discrete Lexicon Probabilities with NMT for Low-Resource Mongolian-Chinese Translation	Li Jinting, Hou Hongxu, Wu Jing, Wang Hongbin, Fan Wenting, Ren Zhong
17	Exploring Different Granularity in Mongolian-Chinese Machine Translation Based on CNN	Wang Hongbin, Hou Hongxu, Wu Jing, Li Jinting, Fan Wenting
18	Segmentation and Classification of Skin Cancer Melanoma from Skin Lesion Images	Nay Chi Lynn, Zin Mar Kyu
19	Program classification in a stream TV using deep learning	Hmayda Mounira, Ridha Ejbali , Mourad Zaied

Section 2B: Algorithms and Applications

Section chair: Carlos Roberto Valêncio, São Paulo State University

20	An efficient parallel optimization for co-authorship network analysis	Carlos Roberto Valêncio (corresponding author), José Carlos de Freitas, Rogéria Cristiane Gratão de Souza, Leandro Alves Neves, Geraldo Francisco Donegá Zafalon, Angelo Cesar Colombini and William Tenório.
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21	Investigating the influence of adding local search to search algorithms	Nadia Abd-Alsabour
22	Parallel Implementation of Dynamic Programming Problems using Wavefront and Rank Convergence with Full Resource Utilization	Vivek Sourabh, Parth Pahariya, Isha Agarwal, Ankit Gautam, C. Ravindranath Chowdary
23	SMiPE: Estimating the Progress of Recurring Iterative Distributed Dataflows	Jannis Koch, Lauritz Thamsen, Florian Schmidt, Odej Kao
25	Rule Based Parallel Sorting Algorithm for Reconfigurable Multi-Partition Object Arrays	Nandika Habaraduwa Liyanage
26	A Depth-First Search Algorithm Based Otoloscope Application for Real-time Otitis Media Image Interpretation	Mr. Yu-kai Huang, Dr. Chia-ping Huang
27	Application Classification based on Preference for Resource Requirements in Virtualization Environment	Shumin Qiao, Binbin Zhang, Weiyi Liu

Section 3A: Algorithms and Applications

Section chair: Hui Tian, Beijing Jiaotong University and University of Adelaide

28	A Java Framework for High Level Parallel Programming using Powerlists	Virginia Niculescu, Frédéric Loulergue, Darius Bufnea, Adrian Sterca
29	Robust Low-Rank Approximation of Images for Background and Foreground Separation	Haïfa Nakouri, Mhamed-ali El-Aroui and Mohamed Limam.
30	A Deadline-partition Oriented Heterogeneous Multi-core Scheduler for Periodic Tasks	Mr. SANJAY MOULIK, Mr. RAJESH DEVARAJ, Dr. ARNAB SARKAR, Mr. ARIJIT SHAW,

31	Live Migration of Virtual Machine with Pre-record and Use PDoPMP to Analyse Memory Access Trend	Zhongyuan Shan, Jianzhong Qiao, Shukuan Lin
32	Research on the Relationship between Railway Network Development and Economic Growth in Central China	Caihua Han
33	Model-based Statistical Features for Mobile Phone Image of Tomato Plant Disease Classification	Chit Su Hlaing and Sai Maung Maung Zaw
34	Applying data mining techniques to discover KPIs relationships in business process context	Emna Ammar El Hadj Amor, Sonia Ayachi Ghannouchi

Section 3B: Algorithms and Applications

Section chair: Xiangyuan Zhu, School of Computer Science, Zhaoqing University, Zhaoqing, Guangdong, China

35	A Parallel Pairwise Alignment with Pruning for Large Genomic Sequences	Xiangyuan Zhu, Bing Li, Kenli Li, Ping Shao, and Yi Pan
36	Optimization of Zuker Algorithm on GPUs	Amik Singh, Manoj Misra
37	The computing of optimized clustering threshold values based on quasi-classes space for the merchandise recommendation	Mingshan Xie, Yanfang Deng, Yong Bai, Mengxing Huang, Wenbo Jiang, Zhuhua Hu
38	Improved Online Algorithms for One-dimensional Bin Packing with Advice	Xiaofan Zhao
39	A Deep Learning Based Framework for Power Demand Forecasting with Deep Belief Networks	Boyi Zhang, Xiaolin Xu, Hongwei Xing, Yidong Li
40	A Fault Diagnosis Method of Ozone Generator Based on Data Fusion	Han Ding, Ruichun Hou, Xiangqian Ding
41	MRI images Enhancement and Tumor Segmentation for Brain	Aye Min and Zin Mar Kyu

Section 4A: Networking and Architectures

Section chair: Yao Hu, National Institute of Informatics, Japan

42	A Case of Electrical Circuit Switched Interconnection Network for Parallel Computers	Yao Hu, Tomohiro Kudoh, Michihiro Koibuchi
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43	A Hybrid Network Traffic Prediction Model Based on Optimized Neural Network	Xiao Zhou, Jingtian Liu, Hui Tian
44	Identification of Abnormal Network Traffic Using Support Vector Machine	Ling jing Kong, Guowei Huang, Keke Wu
45	ABPP: An Adaptive Beacon Scheme for Geographic Routing in FANET	Xianfeng Li, Junxian Huang
46	Hierarchical Delaunay Network for Peer-to-Peer Overlay with Address Hashing	Satoshi Fujita
47	Multilevel Concatenated Codes with Parallel Construction	Shang-Chih Ma
48	A Survey of User Preferences oriented Service Selection and Deployment in Multi-Cloud Environment	Li Liu; Letian Yang; Qi Fan
49	Multi-Blockchain Model For Central Bank Digital Currency	He Sun, Kai Hu, lingchao Gao, Xiaomin Bai, Zhidong Chen

Section 4B: **Networking and Architectures**

Section chair: Chien-Ping Liu, National Taipei University

50	Load Regulation on Energy Saving Mechanisms of EPON Networks	Chien-Ping Liu, Ho-Ting Wu, Chia-Chih Chien, Kai-Wei Ke
51	Strike the Balance between System Utilization and Data Locality under Deadline Constraint for MapReduce Clusters	Yeh-Cheng Chen, Jerry Chou
52	Towards Energy-Efficient Multi-Level Cell STT-MRAM Caches with Content Awareness	Qi Zeng, Rakesh Jha, Jih-Kwon Peir
53	Content Delivery Based on Popularity and Time Slot	Min-Chun Huang, Chi-He Chang, Chao-Wei Tseng, Ru-Jen Lee
54	Algorithm for readers arrangement without collision in RFID networks	Atef Jaballah, Aref Meddeb
55	Data Forwarding Algorithm Based on Energy Efficiency in Multi-hop Device to Device Network	Yong Zhang, Ruonan Li, Yanan Zhang, Mei Song

56	A Dynamic Multi-core Multicast Tree Approach for Delay and Delay Variation Multicast Routing	Hovhanness A. Harutyunyan and Meghrig Terzian
57	A Divide and Conquer State Grouping Method for Bitmap Based Transition	Subramanian Shiva Shankar, Dr. Lin PinXing , Dr. Andreas Herkersdorf, Dr. Thomas Wild

Section 5A: Networking and Architectures

Section chair: Irum Fahim Bukhari, The University of Melbourne, Australia

58	Handling Churn in Similarity Based Clustering Overlays Using Weighted Benefit	Irum Fahim Bukhari, Aaron Harwood, Shanika Karunasekera
59	Computation Capability Deduction Architecture for MapReduce on Cloud Computing	Tzu-Chi Huang, Kuo-Chih Chu, Guo-Hao Huang, Yan-Chen Shen, Ce-Kuen Shieh
60	5G cellular : survey on some challenging techniques	Yosra BENCHAABENE , Nouredine BOUJNAH , Faouzi ZARAI
61	An Intelligent Network Sharing System Design with Multipath TCP	Yu-Ching Lin
62	Managing ISA and Bytecode Compatibility with an Enhanced Toolchain	Ralph Duncan
63	Efficient Data Gathering in Wireless Sensor Networks with Fixed-Group Method	Zhansheng Chen, Hong Shen

Section 5B: Networking and Architectures

Section chair : Chengrui He, School of Computer Science, Beihang University

64	Implementing Algorithmic Skeletons with Bulk Synchronous Parallel ML	Frédéric Louergue
65	Optimization of LevelDB by Separating Key and Value	Lei Wang, Guiqiang Ding, Yulong Zhao, Dingzeyu Wu and Chengrui He
66	Dynamically Improving Resiliency to Timing Errors for Stream Processing Workloads	Geoffrey Phi C. Tran ,John Paul Walters,Stephen P. Crago

67	INTEGER PROGRAMMING MODEL TO OPTIMIZE WASTE MANAGEMENT SYSTEM (Case Study : Surakarta City Indonesia)	Yusuf Sutanto, Siti Hayati Efi Friantin, Sri Wulandari
68	Learning Automata based Dynamic Resource Provisioning for Cloud Computing Environments	Hamid Reza Qavami, Shahram Jamali, Mohammad Kazem Akbari, Bahman Javadi
69	Models and run-time systems for data intensive workflow applications	Nahla Haddar and Mohamed Tmar
70	Agent collaboration in intelligent parking lot systems: Dynamic generation of commitment protocol	Jing Wang, Wei Liu, Shuang Li

Section 6A: **Software Systems and Technologies**

Section chair: Fouzia Kahloun, SITCOM, Hamman Sousse-Tunisia

71	A case study in higher education domain based on a prototype for business process models improvement: BPMoQualAssess	Fouzia Kahloun, Sonia Ayachi Ghannouchi
72	Dependability Stress Testing of Cloud Infrastructures	Lena Feinbube, Lukas Pirl, Peter Tröger, Andreas Polze
73	Cost-Aware Software-Defined Hybrid Object-based Storage System	Yung-Feng Lu, Chin-Fu Kuo, Shih-Chun Chou, Jhong-Syuan Li, and Yan-Wei Lai
74	Local Tetra Pattern Features for Environmental Sound Event Classification	Khine Zar Thwe, Nu War
24	A Meta-heuristic Approach for Dynamic Process Planning in Reconfigurable Manufacturing Systems	Fu-Shiung Hsieh

Section 6B: **Software Systems and Technologies**

Section chair: Sameh Azouzi, SITCOM Hammam Sousse Tunisia

75	Towards supporting modeling variability in e-learning application: a case study	Sameh Azouzi, Sonia Ayachi Ghannouchi, Zaki brahmi
76	Multidimensional user profile construction: Web service extraction based on EXTRACT algorithm	Ilhem Feddaoui, Faïçal Felhi, Mongi Boulehmi and Jalel Akaichi

77	Feature-based Adaptive Block Partition Method for Data prefetching in Streamline Visualization	Yumeng Guo, Wenke Wang, Sikun Li
78	Human Action Recognition Using Wavelets Of Derived Beta Distributions	Neziha JAOUEDI, Nouredine BOUJNAH & Mohamed Salim BOUHLEL