DSA 2018 (with co-located CLC 2018) Session Schedule

The 5th International Conference on Dependable Systems and Their Applications

The 2018 International Conference on Creative Lifestyle Computing

Saturday, September 22, 2018		
08:00 – 08:45	Registration	

08:45 – 09:00	Opening Ceremony
	• Special Guest
	  Guowei Wu (Dalian University of Technology)
	• General Chair:
	  He Jiang (Dalian University of Technology)
	• Program Chair:
	  Kazuhiro Ogata (Japan Advanced Institute of Science and Technology)	

09:00 – 10:00	• Keynote Speech
	  Static Analysis of Programs
	  Jian Zhang
	  Institute of Software, Chinese Academy of Sciences, Beijing, China	

10:00 – 10:30	Coffee Break	
10:30 – 12:10	• Session I-A: Security and Safety • Session I-B: International Symposium on Art-Science-Architecture (1)	
12:10 – 13:30	Lunch Break	
13:30 – 15:35	• Session II-A: Reliability Modeling and Analysis • Session II-B: International Symposium on Art-Science-Architecture (2)	
15:35 – 16:00	Coffee Break	
16:00 – 18:05	• Session III-A: Formal Method • Session III-B: International Symposium on Art-Science-Architecture (3)	
18:30 – 20:00	Conference Banquet	

Sunday, September 23, 2018		
08:00 – 09:00	Registration	
09:00 – 10:40	• Session IV-A: Testing and Debugging • Session IV-B: International Symposium on Creative Computing (1)	
10:40 – 11:00	Coffee Break	
11:00 – 12:15	• Session V-A: Applications • Session V-B: International Symposium on Creative Computing (2)	
12:15 – 13:30	Lunch Break	
13:30 – 15:35	• Session VI-A: International Symposium on Smart Tourism (1) • Session VI-B: International Symposium on Emerging Fashion	
15:35 – 16:00	Coffee Break	
16:00 – 17:40	• Session VII-A: International Symposium on Smart Tourism (2) • Session VII-B: International Symposium on Business Wisdom	
17:40	Adjourn	

DSA 2018 (with co-located CLC 2018) Presentation Schedule

The 5th International Conference on Dependable Systems and Their Applications

The 2018 International Conference on Creative Lifestyle Computing

Saturday, September 22, 2018	
08:00 – 08:45	Registration (Foyer)

08:45 – 09:00	Opening Ceremony
	Room: No.2 Conference Room
	
	• Special Guest
	  Guowei Wu (Dalian University of Technology)
	• General Chair:
	  He Jiang (Dalian University of Technology)
	• Program Chair:
	  Kazuhiro Ogata (Japan Advanced Institute of Science and Technology)

09:00 – 10:00	• Keynote Speech
	  Chair: He Jiang
	  Room: No.2 Conference Room
	
	  Static Analysis of Programs
	  Jian Zhang
	  Institute of Software, Chinese Academy of Sciences, Beijing, China

10:00 – 10:30	Coffee Break

10:30 – 12:10	• Session I-A: Security and Safety
	  Chair: Kazuhiro Ogata
	  Room: No.1 Conference Room
	
	  o *Generating Permission-Based Security Policies*
	    Xin Li, Hua Vy Le Thanh, Yuxin Deng, and Julian Dolby
	
	  o *Method-level Permission Analysis Based on Static Call Graph of Android Apps*
	    Yan Hu, Weiqiang Kong, Deng Ding, and Jun Yan
	
	  o *Analysis of Security in Blockchain: Case Study in 51%-Attack Detecting*
	    Congcong Ye, Guoqiang Li, Hongming Cai, Yonggen Gu, and Akira Fukuda
	
	  o *A Multi-Chain Model for CBDC*
	    Wei-Tek Tsai, Zihao Zhao, Chi Zhang, Lian Yu, and Enyan Deng

10:30 – 12:10	• Session I-B: International Symposium on Art-Science-Architecture (1)
	  Room: No.2 Conference Room
	
	  o *The Future of Smart Home*
	    Rui Wang
	
	  o *Key Technique for Operation and Maintenance of an Urban Utility Tunnel System Based on Building Models*
	    Rui Han, Daping Liu, Lihua Wang, and Dan Shao
	
	  o *Research on Regional Spatial Structure of Jilin Province in China During New Urbanization Process*
	    Bingxin Li, Xiangun Li, and Liu lei
	
	  o *Towards a Better Understanding of Constituent Systems for Smart Tourism System of Systems*
	    Yingchun Tian, Delin Jing, Changchun Yang, Hui Wang, and Ji Fang

	o *Discovering Building Operational Patterns by Machine Learning: A Way towards A Creative Living Environment* Yufeng Deng and Mingzhu Li o *Attempt Study of Applying Creative Computing for the Activation of Intangible Cultural Heritage* Meiyu Shi, Lu Zhang, and Hongji Yang
12:10 – 13:30	Lunch Break
13:30 – 15:35	Session II-A: Reliability Modeling and Analysis Chair: Xin Li Room: No.1 Conference Room o *Failure Modes Detection of Nuclear Systems Using Machine Learning* David Tian, Jiamei Deng, Enrico Zio, Francesco Maio, and Fucheng Liao o *An Algebraic Binary Decision Diagram for Analysis of Dynamic Fault Tree* Wei Jiang, Siwei Zhou, Luyao Ye, Dongdong Zhao, Jing Tian, W. Eric Wong, and Jianwen Xiang o *A GTS-Based Reliability Analysis Method for the Subsea Gas Boosting System* Jinyong Yao and Zhiping Pang o *Failure Diagnosis for UAV-Born Inertial Navigation Device Based on BP-Adaboost Model* Yingjie Ren and Yanguang Hu
13:30 – 15:35	• Session II-B: International Symposium on Art-Science-Architecture (2) Room: No.2 Conference Room o *Calculation of Transverse Distribution Coefficient of Carbon Fiber Reinforced Steel-Concrete Composite Beams* Chunling Zhong, Dong Liang, Yunlong Zhang, Jing Wang, and Yangyang Guo o *Finite Element Solution of Beam Element for Static Response of Composite Beams after Carbon Fiber Reinforcement* Yunlong Zhang, Jing Wang, Jie Li, Xiaohui Cong, Jiageng Ren, and Chunling Zhong o *Spatial Analysis of External Prestressed and Bonded Carbon Fiber Reinforced Slab Bridge* Jing Wang, Yunlong Zhang, Jie Li and Chunling Zhong o *The Energy Saving Efficiency of Geometric Parameters of Building in A Severely Cold Region* Jiaying Teng o *Semi-Virtual Space Design based on New Technologies* Yi Wang
15:35 – 16:00	Coffee Break
16:00 – 18:05	• Session III-A: Formal Method Chair: Weiqiang Kong Room: No.1 Conference Room o *Analysis of Some Variants of the Anderson Array-Based Queuing Mutual Exclusion Protocol with Model Checking and Graphical Animations* Yati Phyo and Kazuhiro Ogata o *Model Checking of the Suzuki-Kasami Distributed Mutual Exclusion Algorithm with SPIN* Shouki Sakamoto and Kazuhiro Ogata

	o *Verification Model Translation Method toward Behavior Model for CAST* Takahiro Ando, Bo Wang, Kenji Hisazumi, Weiqiang Kong, Akira Fukuda, Yasutaka Michiura, Keita Sakemi, and Michihiro Matsumoto
16:00 – 18:05	• Session III-B: International Symposium on Art-Science-Architecture (3) Room: No.2 Conference Room o *Research on Measurement of Transformation and Upgrading Capability of Construction Enterprise Based on Green Development* Yuncui Fan, Yuanyuan Li, and Chongshang Yang o *Optimisation Design of Building Integration Photovoltaic System with LOLP Algorithm* Chunlei Zhao, Liang Guo, Xu Zhang, and Yaodan Chi o *Research and Design of Photovoltaic System in an Intelligent Photovoltaic Architecture* Chao Wang, Lei Lei, Fan Yang, Lu Zhou, and Xu Zhang o *Research and Protection on Water Towers of Chinese Eastern Railway* Tong Liu, Daping Liu, and Shijun Wang, and Zi Wang o *Application realization of multi-sensor data fusion algorithm in accurate positioning of personnel in buildings* Chenghao Han, Zhongtao Wang, and Longxu Wang
18:30 – 20:00	Conference Banquet

Sunday, September 23, 2018
08:00 – 09:00	Registration (Foyer)

09:00 – 10:40	• Session IV-A: Testing and Debugging
	Chair: David Tian
	Room: No.1 Conference Room
	
	   ○ *Nondeterministic Event Sequence Reduction for Android Applications*
	     Bo Jiang, Xiaoyan Wang, Huanqiang Xu, Hao Wang, and Chaoyang Zhang
	
	   ○ *MCDC-Star: A White-Box Based Automated Test Generation for High MC/DC Coverage*
	     Linghuan Hu, W. Eric Wong, D. Richard Kuhn, and Raghu Kacker
	
	   ○ *A Theoretical Analysis on the Impacts of Misestimated Test Cases*
	     Yanhong Xu, Beibei Yin, Xiaohui Wan, Chenglong Li, and Zheng Zheng
	
	   ○ *A Monte Carlo Simulation-Based algorithm for a Repairable system in the GO Methodology*
	     Ang Li, Yi Ren, Dezhen Yang, and Zhifeng Li

09:00 – 10:40	• Session IV-B: International Symposium on Creative Computing (1)
	Room: No.2 Conference Room
	
	   ○ *An Approach to Human Computer Interaction Analysis*
	     Mingyang Sun and Haiyang Yu
	
	   ○ *A New Method of Component Extraction that Helps Creativity*
	     Junfeng Zhao and Yingjie Li
	
	   ○ *A Synergy between Human Creativity and Computing Technology*
	     Lu Zhang and Chi Zhang
	
	   ○ *Livelihood Oriented Urban Planning Management through Computing*
	     Jiafeng Zhou and Tian Liu
	
	   ○ *Ranking Service Products Based on Customer Ratings*
	     Pingping Cao, Xiaojie Zhao, and Mingyang Li

10:40 – 11:00	Coffee Break

11:00 – 12:15	• Session V-A: Applications
	Chair: Zhilei Ren
	Room: No.1 Conference Room
	
	   ○ *Solving Team Making Problem for Crowdsourcing with Evolutionary Strategy*
	     Han Wang, Zhilei Ren, Xiaochen Li, and He Jiang
	
	   ○ *Comparative Study on Online Review of Different Types of Hotel*
	     Tianjiao Niu, Yusi Ding, and Jianzheng Yang
	
	   ○ *Indoor Positioning System Based on Zigbee and Inertial System*
	     Chenghao Han, Zhongtao Wang, and Longxu Wang
	
	   ○ *Interval Estimation of Process Capability Indices Based on the Weibull Distributed Quality Data of Supplier Products*
	     Yanhe Cui and Jun Yang
	
	   ○ *Process Capability Evaluation of Product Development Based on Information Entropy*
	     Lixiang Wang, Wei Dai, and Yubing Huang

11:00 – 12:15	• Session V-B: International Symposium on Creative Computing (2)
	Room: No.2 Conference Room
	
	   ○ *A Creative-Computing based Model for Film Story Construction*
	     Hongwei Liu, Hongji Yang, Hongrui Liu, and Enze Yu

	o *A Creative Approach to Transplanting Legacy System to MapReduce Model* Junfeng Zhao and Wenmeng Wang o *Mega Medical Data: An Invisible Bridge Links Common Disease and Daily Diet* Delin Jing, Yingchun Tian, Changchun Yang, and Shiren Ye o *A Study on World Cultural Heritage Sites Resource Allocation and Supervising System Based on Artificial Intelligence Algorthm and Creative Computing methods - A Case on Hailongtun Tusi Site* Meiyu Shi, Wei Ren, and Qinyun Liu o *Research on Educational Data Exchange Based on Big Data Stream Technology* Zhen Li, Dongdai Zhou, and Mengqi Li
12:15 – 13:30	Lunch Break
13:30 – 15:35	• Session VI-A: International Symposium on Smart Tourism (1) Room: No.1 Conference Room o *A Research on Polarimetric Visual Simulation based on PG models* Junhua Yue and Yan Li o *Protection and Utilisation of Industrial Heritage of Changchun City as Creative Tourism Resource* Wei Mo, Meng Zhang, and Jianqiao Zhang o *An Analysis to Sustainability of Heritage Craftsmanship based on Computing-Aided Abstraction Techniques* Sicong Ma, Lin Zou, Mark Loon, and Fengbao Ma o *An Approach to Eliciting Data Relations of Internetware* Lin Zou, Qinyun Liu, and Sicong Ma, and Qing Duan o *Competition Between Creative Enterprises: Game Model and Numerical Simulation* Lingzhu Kong and Weisheng Yu
13:30 – 15:35	• Session VI-B: International Symposium on Emerging Fashion Room: No.2 Conference Room o *Research on Style of Popular Qipao based on A Search Engine* Wei Liu, Ran Zhang, and Qingbo Yu o *Innovation Strategies and Future Development Possibilities for Smart Jewelry* Yi Song o *Application and Trends of Virtual Bodies in Modern Fashion from the Perspective of Post Human Era* Wei Chang o *Technological Influences on Fashion Typography* Luran Xiao
15:35 – 16:00	Coffee Break
16:00 – 17:40	• Session VII-A: International Symposium on Smart Tourism (2) Room: No.1 Conference Room o *Cultural Heritage Tourism Site Value Improvement by Using Back Propagation Neural Network Algorithm and Creative Computing Theory* Qinyun Liu, Sicong Ma, Wei Ren, and Yuqing Qi o *Big Data and Tourism Statistics* Ying Li, Lu Zhang, and Ling Wen

	○ *Research Hotspots and Trend Analysis of Wisdom Tourism in China* Gongpeng Zhang (Beijing Union University, China), Yuncai Ning (School of Management, China), and Chi Zhang ○ *Comparison of Quality of Tourism Reviews on Different Chinese Platforms Using LDA* Nao Li, Chunjie Zhou, and Chi Zhang
16:00 – 17:40	• Session VII-B: International Symposium on Business Wisdom Room: No.2 Conference Room ○ *Research on Supply Chain Trustworthy Data Management Based on Blockchain* Yuxiang Huang, Zhihong Liang, Bi Huang, and Yongke Sun ○ *Prefabricated Building Strategy Cost Risk Management* Xiaoxin Ding, Kai Liu, and Shujun Shi ○ *Enterprise Strategy Logic and Strategic Choice in the Context of Big Data: An Empirica Research Based on Baidu Company* Hua Zhang, Liang Liu, and Codjo Barthelemy Tossenou ○ *Handwriting VS Word Processing* Hongji Yang and Tian Liu ○ *Destination Marketing Performance Assessment of Beijing-Tianjin-Hebei Region Based on Online Review Data* Heng Wang, Zhicheng Hao, and Yun Li
17:40	Adjourn