Conference Program

The 11th International Conference on Simulated Evolution and Learning
(SEAL 2017)

Shenzhen, China
10-13 November 2017
Day 1 -- 10 November 2017

8:00 – 17:00: Registration

8:00 – 17:00: Registration

SUSTech Library

8:30 – 11:30am: First SUSTech-VUW Joint Workshop on Evolutionary Optimisation and Learning

Room 1

8:30-8:40am: Workshop Opening Address (Xin Yao)

8:40-8:55am: Overview of SUSTech Research Team and Topics on Evolutionary Optimisation and Learning (Yuhui Shi)

8:55-9:10am: Overview of VUW Research Team and Topics on Evolutionary Optimisation and Learning (Mengjie Zhang)

9:10-9:20am: Logic Mapping in Crossbar-based Nano-architectures, SUSTech, (Bo Yuan)

9:20-9:30am: LCS and Reinforcement Learning, VUW (Will Browne, Aaron Chen)

9:30-9:40am: Multi-class SVMs: From Tighter Data-Dependent Generalization Bounds to Novel Algorithms, SUSTech (Yunwen Lei)

9:40-9:50am: Evolutionary Feature Selection/Construction/Extraction, VUW (Bing Xue)

9:50-10:00am: Parallel and Distributed Implementation of Large-Scale Optimization, SUSTech (Qiqi Duan)

10:00-10:10am: Evolutionary Scheduling and Combinatorial Optimisation, VUW (Yi Mei, Aaron Chen, Hui Ma)

10:10-10:30am Photograph and Morning Tea break

10:30-10:40am: Univariate Model for Multimodal Nonseparable Problems, SUSTech (Geng Zhang)

10:40-10:50am: Evolutionary Computer Vision and Image Programming, Pattern Recognition, VUW (Harith Al-Sahaf, Bing Xue, Mengjie Zhang)

10:50-11:00am: Cooperative Coevolution based Design Optimisation: A Concurrent Engineering Perspective, SUSTech (Xiaofen Lu)

11:00-11:10am: Evolutionary Deep Learning and Transfer Learning, VUW (Mengjie Zhang, Will Browne and Bing Xue)

11:10-11:30am: Discussions on Potential Collaborations

11:30am—1:00pm: Lunch
1:00-5:45pm Tutorials

1:00-2:30pm Tutorial 1 (Room 1) --- Evolutionary Computation: A Unified Approach (by Prof. Kenneth A. De Jong)

Session Chair: Yuhui Shi

1:00-2:30pm Tutorial 2 (Room 2) --- Hybrid Metaheuristics for Semiconductor Scheduling (by Prof. Mitsuo Gen)

Session Chair: Han Huang

2:30-2:45pm: Afternoon Tea

2:45-4:15pm Tutorial 3 (Room 1) --- Genetic Programming: Recent Developments and Applications (by Prof. Mengjie Zhang)

Session Chair: Hisao Ishibuchi

2:45-4:15pm Tutorial 4 (Room 2) --- Evolutionary Computation and Complex Networks (by Prof. Jing Liu)

Session Chair: Xiaodong Li

4:15-5:45pm Tutorial 5 (Room 1) --- Evolutionary Large-Scale Global Optimization: An Introduction (by Prof. Xiaodong Li)

Session Chair: Mengjie Zhang

4:15-5:45pm Tutorial 6 (Room 2) --- Algorithm Selection – Online + Offline Techniques (by Prof. Mustafa MISIR)

Session Chair: Zexuan Zhu

6:30-9:00pm: Reception, Venue: SUSTech Chinese Restaurant (beside the SUSTech Guest House) (专家公寓 2 号楼一楼中餐厅)
Day 2 -- 11 November 2017

8:00 – 17:00: Registration

8:00-8:30am Conference Opening

Chair: Kay Chen Tan
Opening Address: Xin Yao
Conference organising: Yuhui Shi
Group Photograph

8:30-9:20am: Keynote Speech 1

Session Chair: Prof Xin Yao
Title: Co-evolutionary Algorithms: Theory and Practice
Speaker: Prof. Kenneth De Jong

9:20-10:10am: Keynote Speech 2

Session Chair: Prof Kay Chen Tan
Title: Multi-Objective Optimiztaion and Decision Making in Dynamic Environments
Speaker: Prof. Sanaz Mostaghim

10:10-10:30am: Morning Tea

Oral Session 1 (10:30—11:30am, Room 1): Evolutionary Feature Selection and Construction

Session Chairs: Bing Xue, Kourosh Neshatian
10:30-10:50am: New Representations in Genetic Programming for Feature Construction in k-means Clustering
Andrew Lensen, Bing Xue and Mengjie Zhang

10:50-11:10am: Kernel Construction and Feature Subset Selection in Support Vector Machines

Shinichi Yamada and Kourosh Neshatian

11:10-11:30am: A Multitree Genetic Programming Representation for Automatically Evolving Texture Image Descriptors

Harith Al-Sahaf, Bing Xue and Mengjie Zhang

Oral Session 2 (10:30—11:30am, Room 2) : Evolutionary Multi-Objective Optimisation

Session Chairs: Ran Cheng, Hailin Liu

10:30-10:50am: Adjusting Parallel Coordinates for Investigating Multi-Objective Search

Liangli Zhen, Miqing Li, Ran Cheng, Dezhong Peng and Xin Yao.

10:50-11:10am: A constraint partitioning method based on minimax strategy for constrained multiobjective optimization problems

Xueqiang Li, Shen Fu and Han Huang.

11:10-11:30am: A Fast Objective Reduction Algorithm based on Dominance Structure for Many Objective Optimization

Fangqing Gu, Hai-Lin Liu and Yiu-Ming Cheung.

11:30am--1:00pm: Lunch

Oral Session 3 (1:00—3:00pm, Room 1): Evolutionary Learning 1

Session Chairs: Will Browne, Zexuan Zhu

1:00-1:20pm: Transductive Transfer Learning in Genetic Programming for Document Classification

Wenlong Fu, Bing Xue, Mengjie Zhang and Xiaoying Gao.

1:20-1:40pm: Adaptive Memetic Algorithm Based Evolutionary Multi-tasking Single-objective Optimization

Qunjian Chen, Xiaoliang Ma, Yiwen Sun and Zexuan Zhu.
1:40-2:00pm: A Study on Pre-Training Deep Neural Networks Using Particle Swarm Optimisation
   Angus Kenny and Xiaodong Li.

2:00-2:20pm: Dynamic and Adaptive Threshold for DNN Compression from Scratch
   Chunhui Jiang, Guiying Li and Chao Qian.

   Xumiao Zou and Jing Liu.

2:40-3:00pm: A Bayesian Restarting Approach to Algorithm Selection
   Yaodong He, Shiu Yin Yuen and Yang Lou.

**Oral Session 4 (1:00—3:00pm, Room 2): Evolutionary Optimisation 1**

**Session Chairs: Xiaodong Li, Bin Li**

1:00-1:20pm: KW-Race and Fast KW-Race: Racing-based Frameworks for Tuning Parameters of Evolutionary Algorithms on Black-box Optimization Problems
   Mang Wang, Xin Tong and Bin Li.

1:20-1:40pm: Generalized Hybrid Evolutionary Algorithm Framework with a Mutation Operator Requiring no Adaptation
   Yong Wee Foo, Cindy Goh, Lipton Chan, Lin Li and Yun Li.

1:40-2:00pm: Evolving Directional Changes Trading Strategies with a New Event-based Indicator
   Michael Kampouridis, Adesola Adegboye and Colin Johnson.

2:00-2:20pm: An Evolutionary Vulnerability Detection Method for HFSWR Ship Tracking Algorithm
   Pengju Zhang, Kun Wang, Ling Zhang, Zexiao Xie and Liqin Zhou.

2:20-2:40pm: Study of an adaptive control of aggregate functions in MOEA/D
   Shinya Watanabe and Takanori Sato.

2:40-3:00pm: Evolutionary Computation Theory for Remote Sensing Image Clustering: A Survey
   Yuting Wan, Yanfei Zhong and Ailong Ma.

**3:00-3:30pm: Afternoon Tea**
3:30-4:20pm: Keynote Speech 3  
Session Chair: Prof Yuhui Shi

Title: Why restrict to one task or problem? From Transfer to Multitask Optimization
Speaker: Prof Yew Soon Ong

4:30-6:00pm: Poster Session  
Corridor of SUSTech Library

2. Kaizhou Gao, Peiyong Duan, Rong Su and Junqing Li. Bi-objective water cycle algorithm for solving remanufacturing rescheduling problem
4. Kai Wu and Jing Liu. Evolutionary Games Network Reconstruction by Memetic Algorithm with 1/2 Regularization
5. Yangyang Li, Xiaoyu Bai, Xiaoxu Liang and Licheng Jiao. Sparse Restricted Boltzmann Machine Based on Multiobjective Optimization
6. Baolei Li, Jing Liang, Caitong Yue and Boyang Qu. Multivariant optimization algorithm with bimodal-gauss
7. Xiang Yu, Yunan Liu, Xiangsheng Feng and Genhua Chen. Enhanced Comprehensive Learning Particle Swarm Optimization with Exemplar Evolution
9. Muhammad Sulaman, Xinye Cai, Mustafa Misir and Zhun Fan. Simulated Annealing with an Improvement Heuristic for Ready-mix Concrete Delivery
10. Wenxue Sun, Xinye Cai, Chao Xia, Muhammad Sulaman, Mustafa Misir and Zhun Fan. Greedy based Pareto Local Search for Bi-objective Robust Airport Gate Assignment Problem
11. Yang Lou and Shiu Yin Yuen. A Sequential Learnable Evolutionary Algorithm with a Novel Knowledge Base Generation Method
13. Leilei Cao, Lihong Xu, Erik Goodman and Hui Li. A first-order difference model-based MOEA/D algorithm for dynamic multiobjective optimization problems
16. Qingling Zhu, Quizhen Lin and Jianyong Chen. An Elite Archive-based MOEA/D Algorithm
17. Yuanlong Qin and Bo Yuan. ACO-iRBA: A Hybrid Approach to TSPN with Overlapping Neighborhoods
18. Yi Chen and Aimin Zhou. An Evolutionary Algorithm with New Coding Scheme for Multi-objective Portfolio Optimization
19. Junhua Wu, Markus Wagner, Sergey Polyakovskiy and Frank Neumann. Exact Approaches for the Travelling Thief Problem
22. Jiajie Mo, Zhun Fan, Wenji Li, Yi Fang, Yugen You and Xinye Cai. Multi-Factorial Evolutionary Algorithm Based on M2M Decomposition
23. Tran Binh, Stjepan Picek and Bing Xue. Automatic Feature Construction for Network Intrusion Detection
25. Satoru Iwasaki, Heng Xiao, Takeshi Uchitane and Toshiharu Hatanaka. A general swarm intelligence model for continuous function optimization
26. Hemant Singh and Xin Yao. Improvement of reference points for decomposition based multi-objective evolutionary algorithms
27. Mengmeng Li, Zhigang Shang and Caitong Yue. A Feature Subset Evaluation Method based on Multi-objective Optimization
28. Wenjian Luo, Bin Yang, Chenyang Bu and Xin Lin. A Hybrid Particle Swarm Optimization for High-Dimensional Dynamic Optimization
29. Adam Ghandar. Evolutionary Computation to Determine Product Builds in Open Pit Mining
31. Hongyue Wu, Han Huang, Shuling Yang and Yushan Zhang. Running-time Analysis of Particle Swarm Optimization with a Single Particle Based on Average Gain
32. Karoon Suksonghong and Kittipong Boonlong. Particle Swarm Optimization with Winning Score Assignment for Multi-objective Portfolio Optimization
33. Ken Doi, Ryo Imada, Yusuke Nojima and Hisao Ishibuchi. Use of Inverted Triangular Weight Vectors in Decomposition-Based Many-Objective Algorithms
35. Hoai Bach Nguyen, Bing Xue and Peter Andreae. A Hybrid GA-GP Method for Feature Reduction in Classification
36. Zhaolin Lai, Xiang Feng and Huiqun Yu. A competitive social spider optimization with learning strategy for PID controller optimization
37. Shanfeng Wang, Maoguo Gong and Xiaolei Qin. Parallel particle swarm optimization for community detection in large-scale networks
38. Yi Liu, Will Browne and Bing Xue. Visualisation and Optimisation of Learning Classifier Systems for Multiple Domain Learning
39. Li Kuang, Feng Wang and Yuanxiang Li. Statistical Analysis of Social Coding in GitHub Hypernetwork
40. Yanming Yang, Xiaoliang Ma, Zexuan Zhu and Yiwen Sun. Three-dimentional dynamic request prediction based multi-objective memetic algorithm for pickup-and-delivery problem with time windows accept?

41. Xin Du, Youcong Ni, Xiaobin Wu, Peng Ye and Yao Xin. Surrogate Model Assisted Multi-Objective Differential Evolution Algorithm for Performance Optimization at Software Architecture Level

42. Lei Liu, Chengshan Pang, Weiming Liu and Bin Li. Learning to Describe Collective Search Behavior of Evolutionary Algorithms in Solution Space

43. Shi Cheng and Yuhui Shi. Rank Based Particle Swarm Optimizer for Many Objective Optimization

44. Fangqing Gu, Ziquan Liu and Yiu-Ming Cheung. Optimization of Spectrum-Energy Efficiency in Heterogeneous Communication Network

45. Yazhen Zhang and Wei Fang. Large scale WSN deployment based on an improved cooperative coevolutionary PSO with global differential grouping
Day 3 -- 12 November 2017

8:00 – 17:00: Registration

8:30-9:20am: Keynote Speech 4

Session Chair: Prof Mengjie Zhang

Title: Evolutionary Many-Objective Optimization and Performance Evaluation.

Speaker: Prof. Hisao Ishibuchi

9:20-10:10am: Keynote Speech 5

Session Chair: Prof Ke Tang

Title: Broad Learning System: An effective and efficient incremental learning system without the need for deep architecture

Speaker: Prof. Philip C. L. Chen

10:10-10:30am: Morning Tea

Oral Session 5 (10:30—11:30am, Room 1): Evolutionary Combinatorial Optimisation

Session Chairs: Yi Mei, Li Gang

10:30-10:50am: Constrained Dimensionally Aware Genetic Programming for Evolving Interpretable Dispatching Rules in Dynamic Job Shop Scheduling

Yi Mei, Su Nguyen and Mengjie Zhang

10:50-11:10am: A Construction Graph-based Evolutionary Algorithm For Traveling Salesman Problem

Li Gang, Hao Zhi-Feng, Wei Hang and Huang Han

11:10-11:30am: A memetic algorithm based on decomposition and extended search for Multi-Objective Capacitated Arc Routing Problem

Ronghua Shang, Bingqi Du and Licheng Jiao
Oral Session 6 (10:30—11:30am, Room 2): Real-World Applications to Wireless Networks

Session Chairs: Gang Chen, Liang Feng

10:30-10:50am: Cooperative Design of Two Level Fuzzy Logic Controllers for Medium Access Control in Wireless Body Area Networks
   Seyed Mohammad Nekooei, Gang Chen and Ramesh Rayudu

10:50-11:10am: Constrained Differential Evolution for Cost and Energy Efficiency Optimization in 5G Wireless Networks
   Rawaa Al-Dabbagh and Ahmed Jabur

11:10-11:30am: Genetic Programming for Lifetime Maximization in Wireless Sensor Networks with Mobile Sink
   Ying Li, Zhixing Huang, Jinghui Zhong and Liang Feng

11:30am--1:00pm: Lunch

Oral Session 7 (1:00—3:00pm, Room 1): Evolutionary Learning 2

Session Chairs: Bo Yuan, Bing Xue

1:00-1:20pm: Effective Policy Gradient Search for Reinforcement Learning through NEAT based Feature Extraction
   Yiming Peng, Gang Chen, Mengjie Zhang and Yi Mei

1:20-1:40pm: A New Method for Constructing Ensemble Classifier in Privacy-Preserving Distributed Environment
   Yan Shao, Zhanjun Li and Ming Li

1:40-2:00pm: Learning of Sparse Fuzzy Cognitive Maps Using Evolutionary Algorithm with Lasso Initialization
   Kai Wu and Jing Liu

2:00-2:20pm: A Probabilistic Learning Algorithm for the Shortest Path Problem
   Yiya Diao, Changhe Li, Yebin Ma, Junchen Wang and Xingang Zhou

2:20-2:40pm: Geometric Semantic Genetic Programming with Perpendicular Crossover and Random Segment Mutation for Symbolic Regression
   Qi Chen, Mengjie Zhang and Bing Xue
Oral Session 8 (1:00—3:00pm, Room 2): Evolutionary Optimisation 2

Session Chairs: Jing Liang, Ben Niu

1:00-1:20pm: A Knee Point Driven Particle Swarm Optimization Algorithm for Sparse Reconstruction

Caitong Yue, Jing Liang, Boyang Qu, Hui Song, Guang Li and Yuhong Han

1:20-1:40pm: A new precedence-based Ant Colony Optimization for permutation problems

Marco Baioletti, Alfredo Milani and Valentino Santucci

1:40-2:00pm: Conservatism and Adventurism in Particle Swarm Optimization Algorithm

Guangzhi Xu, Rui Li, Xinchao Zhao and Xingquan Zuo

2:00-2:20pm: Recommending PSO variants using meta-learning framework for global optimization

Xianghua Chu, Fulin Cai, Jiansheng Chen and Li Li

2:20-2:40pm: Augmented Brain Storm Optimization with Mutation Strategies

Xianghua Chu, Jiansheng Chen, Fulin Cai, Chen Chen and Ben Niu

2:40-3:00pm: Visualizing the Search Dynamics in a High-dimensional Space for a Particle Swarm Optimizer

Qiqi Duan, Chang Shao, Yuhui Shi and Xiaodong Li

3:00-3:30pm: Afternoon Tea

3:30-4:20pm: Keynote 6 (Room 1)

Session Chair: Prof Xiaodong Li

Title: Neurodynamic approaches to distributed, global, and multi-objective optimization

Speaker: Prof Jun Wang

Oral Session 9 (4:30—5:30pm, Room 1): Evolutionary Optimisation 3

Session Chairs: Hui Ma, Shi Cheng

4:30-4:50pm: Matrix Factorization based Benchmark Set Analysis: A Case Study on HyFlex

Mustafa Misir
4:50-5:10pm: GP-Based Approach to Comprehensive Quality-Aware Automated Semantic Web Service Composition
Chen Wang, Hui Ma, Aaron Chen and Sven Hartmann

5:10-5:30pm: A Simple Brain Storm Optimization Algorithm via Visualizing Confidence Intervals
Yingying Cao, Wei Chen, Shi Cheng, Yifei Sun, Qunfeng Liu, Yun Li and Yuhui Shi

**Oral Session 10 (4:30—5:30pm, Room 2): Local Search in EC**

**Session Chairs: Qingfu Zhang, Bo Yuan**

4:30-4:50pm: Using Parallel Strategies to Speed Up Pareto Local Search
Jialong Shi, Qingfu Zhang, Bilel Derbel, Arnaud Liefooghe and Sébastien Verel

4:50-5:10pm: An Efficient Local Search Algorithm for Minimum Weighted Vertex Cover on Massive Graphs
Yuanjie Li, Shaowei Cai and Wenying Hou

**Conference Dinner and Best Paper Awards (6:30—10:00pm)**

**Chairs: Yuhui Shi, Kay Chen Tan**
Day 4 -- 13 November 2017

9:20-10:10am: Keynote Speech 7  Room 1

Session Chair: Prof Mengjie Zhang

Title: On Learning from Imbalanced Data for Classification

Speaker: Prof Yiu-ming Cheung

10:10-10:30am: Morning Tea

Panel Session and EiC Forum (10:30-12:00)  Room 1

Session Chair: Xin Yao

Panelists:

- Prof Philip Chen, EiC, IEEE Transactions on SMC: Systems
- Prof Hisao Ischibuchi, EiC, IEEE Computational Intelligence Magazine
- Prof Yew Soon Ong, EiC, IEEE Transactions on Emergent Topics in Computational Intelligence
- Prof Kay Chen Tan, EiC, IEEE Transactions on Evolutionary Computation
- Prof Jun Wang, EiC, IEEE Transactions on Cybernetics

12:00-1:00pm: Lunch

1:00pm Conference Close
Conference Committees

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Albert Y.S. Lam, The University of Hong Kong, China
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Per Kristian Lehre, University of Birmingham, UK
Andrew Lensen, Victoria University of Wellington, New Zealand
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Bingdong Li, University of Science and Technology of China, China
Jinlong Li, University of Science and Technology of China, China
Miqing Li, University of Birmingham, UK
Tianrui Li, Southwest Jiaotong University, China
Xiaodong Li, RMIT University, Australia
Jing Liang, Zhengzhou University, China
Qiuzhen Lin, Shenzhen University, China
Ying Lin, Sun Yat-sen University, China
Cong Liu, University of Shanghai for Science and Technology, China
Jialin Liu, Queen Mary University of London, UK
Jing Liu, Xidian University, China
Qunfeng Liu, Dongguan University of Technology, China
Wenjian Luo, University of Science and Technology of China, China
Hui Ma, Victoria University of Wellington, New Zealand
Lianbo Ma, Northeastern University, China
Syahaheim Marzukhi, National Defence University Malaysia, Malaysia
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Kourosh Neshatian, University of Canterbury, New Zealand
Frank Neumann, The University of Adelaide, Australia
Hoai Bach Nguyen, Victoria University of Wellington, New Zealand
Su Nguyen, Victoria University of Wellington, New Zealand
Yew-Soon Ong, Nanyang Technological University, Singapore
Vasile Palade, Coventry University, UK
Xingguang Peng, Northwestern Polytechnical University, China
Yiming Peng, Victoria University of Wellington, New Zealand
Chao Qian, University of Science and Technology of China, China
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Marcus Randall, Bond University, Australia
Tapabrata Ray, University of New South Wales, Australia
Ramesh Rayudu, Victoria University of Wellington, New Zealand
Zhilei Ren, Dalian University of Technology, China
Patricia Riddle, University of Auckland, New Zealand
Ramon Sagarna, Nanyang Technological University, Singapore
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Ronghua Shang, Xidian University, China
Yuhui Shi, Southern University of Science and Technology, China
Shinichi Shirakawa, Yokohama National University, Japan
Hemant Singh, University of New South Wales, Australia
Andy Song, RMIT University, Australia
Chaoli Sun, University of Surrey, UK
Yifei Sun, Shaanxi Normal University, China
Yu Sun, University of Science and Technology of China, China
Kay Chen Tan, City University of Hong Kong, China
Ke Tang, Southern University of Science and Technology, China
Yiming Tang, Hefei University of Technology, China
Chuan-Kang Ting, National Chung Cheng University
Binh Tran, Victoria University of Wellington, New Zealand
Krzysztof Trojanowski, Cardinal Stefan Wyszyński University in Warsaw, Poland
Markus Wagner, The University of Adelaide, Australia
Feng Wang, Wuhan University, China
Handing Wang, University of Surrey, China
Lipo Wang, Nanyang Technological University, Singapore
Rui Wang, National University of Defense Technology, China
Xianpeng Wang, Northeastern University, China
Yong Wang, Central South University, China
Yuping Wang, Xidian University, China
Shinya Watanabe, Muroran Institute of Technology, Japan
Peter Whigham, University of Otago, New Zealand
John Woodward, University of Stirling, UK
Jason Xie, Oracle NZ, New Zealand
Jian Xiong, National University of Defense Technology, China
Xin Xu, Wuhan University of Science and Technology, China
Bing Xue, Victoria University of Wellington, New Zealand
Sun Yanan, Sichuan University, China
Ming Yang, Nanjing Normal University, China
Peng Yang, University of Science and Technology of China, China
Shengxiang Yang, De Montfort University, UK
Yubin Yang, Nanjing University, China
Lean Yu, Academy of Mathematics and Systems Sciences, Chinese Academy of Sciences, China
Tina Yu, Memorial University of Newfoundland, Canada
Yang Yu, Nanjing University, China
Bo Yuan, Southern University of Science and Technology, China
Defu Zhang, Xiamen University, China
Mengjie Zhang, Victoria University of Wellington, New Zealand
Qingfu Zhang, City University of Hong Kong, China
Shichao Zhang, Guangxi Normal University, China
Sihai Zhang, University of Science and Technology of China, China
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Zhaopin Su, Hefei University of Technology, China
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Kang Zhou, Wuhan Polytechnic University, China
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