

Program of BIC-TA 2019 (November 22-25, Zhengzhou, China)

Day 1—November 22 (中州皇冠假日酒店大厅)				
13:00—18:00				
Registration				
Day 2--November 23 (中州智选假日酒店 14 楼紫荆阁)				
Time	Content	Subject	Speaker	Chair
8:30-9:00	Opening Ceremony	Welcome Speech	Prof. Zongmin Wang (President of ZUT)	Prof. Zhoufeng Liu
	Opening Ceremony	Welcome Speech	Prof. Xiangke Liao (Academician)	
9:00-9:20	Photo Time			
9:20-10:05	Keynote Speech	Using AI and Machine Learning Tools to Solve Optimal Control Problems	Prof. Derong Liu	Prof. Linqiang Pan
10:05-10:50	Keynote Speech	Data-driven Evolutionary Optimization-main Challenges and Recent Advances	Prof. Yaochu Jin	
10:50-11:10	Tea Break			
11:10-11:55	Keynote Speech	Advances in Artificial Intelligence for Identification of Autism Spectrum Disorder	Prof. Kaychen Tan	Prof. Lining Xing
11:55-14:00	Lunch			
14:00-14:45	Keynote Speech	Data-driven Intelligent Engineering Optimization Scheduling	Prof. Ling Wang	Prof. Xingyi Zhang
14:45-15:30	Keynote Speech	Evolutionary Deep Learning and Applications to Image Classification	Prof. Mengjie Zhang	
15:30-15:50	Tea Break			
15:50-16:40	Tutorial	Differential Evolutionary for Numerical Optimization	Prof. P.N. Suganthan	Prof. Yinan Guo
16:40-17:30	Tutorial	Hybrid Evolutionary Algorithms with ML and GPU for Intelligent Scheduling Problems	Prof. Mitsuo Gen	
18:30	Banquet			

Session I（中州皇冠假日酒店 5 楼东岳厅）			
Day 3--November 24			
Time	Title	Speaker	Chair
8:30-8:45	Many-objective Evolutionary Optimization based Economic Dispatch of Integrated Energy System with Multi-microgrid and CHP	XiaoyanSun	Shi Cheng
8:45-9:00	Research on Emotional Classification of EEG Based on Convolutional Neural Network	Huiping Jiang	
9:00-9:15	Multi-Objective Feature Selection Based on Artificial Bee Colony for Hyperspectral Images	Chunlin He	
9:15-9:30	Experimental Analysis of Selective Imitation for Multifactorial Differential Evolution	Deming Peng	
9:30-9:45	Brain Storm Optimization Algorithm with Estimation of Distribution	Jiahui Luo	
9:45-10:00	Tentative Study on Solving Impulse Control Equations of Plant-pest-predator Model with Differential Evolution Algorithm	Huichao Liu	
10:00-10:40	Tea Break & Poster		
10:40-10:55	Using Multi-objective Particle Swarm Optimization to Solve Dynamic Economic Emission Dispatch Considering Wind Power and Electric Vehicles	Baihao Qiao	Xiaoyan Sun
10:55-11:10	Using of Processed Data to Design Genetic Circuits in Geno CAD	Mingzhu Li	
11:10-11:25	Hybrid Bacterial Forging Optimization Based on Artificial Fish Swarm Algorithm and Gaussian Disturbance	Ruozhen Zheng	
11:25-11:40	Classification of Tongue Color Based on Convolution Neural Network	Yifan Shang	
11:40-11:55	An Improved Pigeon-Inspired Optimization Combining Adaptive Inertia Weight with A One-Dimension Modification Mechanism	Meiwen Chen	
11:55-14:30 Lunch			
14:30-14:45	Risk Prediction of Esophageal Cancer Using SOM Clustering, SVM and GA-SVM	Yuli Yang	Weiwei Zhang
14:45-15:00	Physical Constitution Discrimination Based on Pulse Characteristics	Nan Li	
15:00-15:15	A Multi-objective Bat Algorithm for Software Defect Prediction	Di Wu	
15:15-15:30	ESAE: Evolutionary Strategy-based Architecture Evolution	Chunguo Wu	
15:30-15:45	Species-based Differential Evolution with Migration for Multimodal Optimization	Wei Li	
15:45-16:00	An Enhanced Bacterial Foraging Optimization Based on Levy Flight and Improved Roulette Wheel Selection	Xinzheng Wu	
16:00-16:20	Tea Break		
16:20-16:35	Adaptive Synchronization of Nonlinear Complex Dynamical Networks with Time-Delays and Sampled-Data	Jiahui Bai	Lianbo Ma
16:35-16:50	Controllability of Some Special Topologies with Time-delays	Yaoyao Ping	
16:50-17:05	Controllability of Second-order Discrete-time Multi-agent Systems with Switching Topology	Ningsheng Xu	
17:05-17:20	Research on EEG Emotional Recognition Based on LSTM	Huiping Jiang	
17:20-17:35	Multi-subpopulation Algorithm with Ensemble Mutation Strategies for Protein Structure Prediction	Chunxiang Peng	
17:35-20:00 Dinner			

Session II（中州皇冠假日酒店 5 楼南岳厅）			
Day 3--November 24			
Time	Title	Speaker	Chair
8:30-8:45	Mutation Strategy Selection Based on Fitness Landscape Analysis : A Preliminary Study	Yaxin Li	Yong Zhang
8:45-9:00	Ensemble Learning Based on Multimodal Multi-objective Optimization	Panpan Wei	
9:00-9:15	The Recognition of Adult Insects of <i>Helicoverpa Armigera</i> and <i>Helicoverpa Assulta</i> Based on SAA-ABC-SVM Technology	Hongtao Zhang	
9:15-9:30	Predictive Values of Preoperative Index Analysis in Patients with Esophageal Squamous Cell Carcinoma	Zhenzhen Zhang,	
9:30-9:45	Univariate Analysis and Principal Component Analysis of Preoperative Blood Indicators in Patients with Esophageal Squamous Cell Carcinoma	Enhao Liang	
9:45-10:00	A Developmental Model of Behavioral Learning for the Autonomous Robot	Dongshu Wang	
10:00-10:40	Tea Break & Poster		
10:40-10:55	Design of A Four-Person Voter Circuit Based on Memristor Logic	Qinfei Yang	Dongshu Wang
10:55-11:10	Efficient Evolutionary Deep Neural Architecture Search (NAS) by Noisy Network Morphism Mutation	Yiming Chen	
11:10-11:25	Estimating Approximation Errors of Elitist Evolutionary Algorithms	Cong Wang	
11:25-11:40	Survival Time Prediction Model of Esophageal Cancer Based on Hierarchical Clustering and Random Neural Network	Huifang Guo	
11:40-11:55	Applying of Adaptive Threshold Non-maximum Suppression to Pneumonia Detection	Hao Teng	
11:55-14:30 Lunch			
14:30-14:45	An Improved Squirrel Search Algorithm with Reproduction and Competition Mechanisms	Xuncaizhang	Ben Niu
14:45-15:00	Structure and Parameter Search for Classification with Feature Selection Based on The Brain Storm Optimization	Yu Xue	
15:00-15:15	Modified Self-adaptive Brain Storm Optimization Algorithm for Multimodal Optimization	Zeyu Dai	
15:15-15:30	Recent Bio-inspired Algorithms for Solving Flexible Job Shop Scheduling Problem: A Comparative Study	Xianyu Zhou	
15:30-15:45	A Cell Potential and Motion Pattern driven Multi-Robot Coverage Path Planning Algorithm	Meng Xu,	
15:45-16:00	Task Set Scheduling of Airport Freight Station Based on Parallel Artificial Bee Colony Algorithm	Haiquan Wang	
16:00-16:20	Tea Break		
16:20-16:35	Water Wave Optimization With Self-adaptive Directed Propagation	Chenxin Wu	Kunjie Yu
16:35-16:50	Mechanical Properties Prediction for Hot Roll Steel Using Convolutional Neural Network	Xu Hao	
16:50-17:05	Reference Point based Multi-objective Evolutionary Algorithm for DNA Sequence Design	Haozhi Zhao	
17:05-17:20	The Neutrophil's Morphology Classification Using Convolutional Neural Network	Xiliang Zhang	
17:20-17:35	An Unbiased Butterfly Optimization Algorithm	G. A. Bahgat	
17:35-20:00 Dinner			

Session III（中州皇冠假日酒店 5 楼西岳厅）			
Day 3--November 24			
Time	Title	Speaker	Chair
8:30-8:45	Multi-AGV Collision Avoidance Path Optimization Strategy for Unmanned Warehouse Based on Improved Ant Colony Algorithm	Yang Yang	Guohua Wu
8:45-9:00	An Improved Competitive Swarm Optimizer for Large Scale Optimization	Zhenzu Liu	
9:00-9:15	MEAPCA: A Multi-population Evolutionary Algorithm Based on PCA for Multi-objective Optimization	Nanjiang Dong	
9:15-9:30	Meta-heuristic Hybrid Algorithmic Approach for Solving Combinatorial Optimization Problem(TSP)	Usman Ashraf	
9:30-9:45	An Effective Two-stage Optimization Method Based on NSGA-II for Green Multi-objective Integrated Process Planning and Scheduling Problem	Xiaoyu Wen	
9:45-10:00	Multi-objective Particle Swarm Optimization with Directional Search for Distributed Permutation Flow Shop Scheduling Problem	WenQiang Zhang	
10:00-10:40	Tea Break & Poster		
10:40-10:55	An Improved Multi-objective Particle Swarm Optimization with Adaptive Penalty Value for Feature Selection	Wentao Chen	Xuesong Yan
10:55-11:10	An Adaptive Brain Storm Optimization Algorithm Based on Heuristic Operators for TSP	Yali Wu	
11:10-11:25	A Modified JAYA Algorithm for Optimization in Brushless DC Wheel Motor	Chuang Zhang	
11:25-11:40	Genetic Action Sequence for Integration of Agent Actions	Man Je Kim	
11:40-11:55	SlimResNet:A Lightweight Convolutional Neural Network for Fabric Defect Detection	Xiaohui Liu	
11:55-14:30 Lunch			
14:30-14:45	Self-Attention Deep Saliency Network for Fabric Defect Detection	Jinjin Wang	Pengwei Wen
14:45-15:00	Identifying Disease Modules Based on Connectivity and Semantic Similarities	YansenSu	
15:00-15:15	KnEA with Ensemble Approach for Parameter Selection for Many-objective Optimization	Vikas Palakonda	
15:15-15:30	Path Planning for Messenger UAV in Air-Ground Collaborative System with Uncertainty Constraints	Hao Zhang,	
15:30-15:45	A Bacterial Foraging Framework for Agent Based Modeling	MijatKustudic	
15:45-16:00	Parametric Method for Designing Discrete-time Periodic Controller of UAV	LinglingLv	
16:00-16:20	Tea Break & Poster		
16:20-16:35	A Modified Memetic Algorithm for Multi-depot Green Capacitated Arc Routing Problem	Bin Cao	Bin Cao
16:35-16:50	An Adaptive Learning Rate Q-learning Algorithm Based on Kalman Filter Inspired by Pigeon Pecking-color Learning	Zhihui Li	
16:50-17:05	Multi-objective Pick-up Point Location Optimization Based on A Modified Genetic Algorithm	Shuai Chen	
17:05-17:20	Efficient Evolutionary Neural Architecture Search (NAS) by Modular Inheritable Crossover	Hao Tan	
17:20-17:35	Fabric Defect Detection Based on Total Variation Regularized Double Low-Rank Matrix Representation	Ban Jiang	
17:35-20:00 Dinner			
Day 4--November 25			
Group Discussion			