

The 26th International Conference on Automation and Computing (ICAC'21) Programme																							
3rd September 2021																							
Opening Ceremony & Keynote speech		Speakers		Zoom ID [Click here to join the meeting]																			
9:00-09:10		Opening Remark		Yu, Hui		Titles																	
9:10-10:00		Keynote Speech 1		Wang, Fei-Yue		Industries 5.0 and Knowledge Automation: From CPS to CPSS via Parallel Intelligence																	
10:10-11:00		Keynote Speech 2		Gu, Dongbing		From SLAM to 3D perception																	
11:10-11:20		Break																					
11:20-16:55		Session Report																					
Session 1		Coordinator: Ma, Hongjie/Jiang, Jingjing		Zoom ID[Click here to join the meeting]		Session 2		Coordinator: Huang, Ya		Zoom ID[Click here to join the meeting]		Session 3		Coordinator: Si, Welyong		Zoom ID[Click here to join the meeting]		Session 4		Coordinator: Huang, Darong		Zoom ID[Click here to join the meeting]	
Session 1 (A)		Chair: Duan, Wenbo Co-chair: Ma, Hongjie		Topic: Computer vision		Session 2 (A)		Chair: Dai, Xuewu Co-chair: Zhang, Qichun		Topic: Control Engineering		Session 3 (A)		Chair: Liu, Cunjia Co-chair: Ma, Xiandong		Topic: Control Engineering		Session 4 (A)		Chair: Hu, Liang Co-chair: Yang, Chenguang		Topic: Manufacturing System	
Time	Paper ID	Authors		Paper title		Time	Paper ID	Authors		Paper title		Time	Paper ID	Authors		Paper title		Time	Paper ID	Authors		Paper title	
11:20-11:35	1	Hu, Shuo; Sun, Linna; Yu, Hui*		Accurate Visual Tracking with Attention Feature Fusion		11:20-11:35	48	Ma, Honglong*; Liu, Yefeng; Sun, Weitang; Liu, Yiming; Zhang,		Research on machining accuracy of workpiece oriented to autonomous behavior of equipment		11:20-11:35	6	Koyama, Ryo*		Rapid Determination of Transportation Line Layout by Combination of AGV's Line Searching and Conveyor's Neighbor Recognition		11:20-11:35	3	Huang, Darong; Jiang, Yiming; Yang, Chenguang*		Single-Leader-Dual-Follower Teleoperation in Object-Holding Task with Internal Force Regulation	
11:35-11:50	40	Zhang, Jing*; Wu, Jun; wang, yuchen; Wang, Hui; Li, Yunsong		Cloud Detection Method Using Convolutional Neural Network Based On Cascaded Color And Texture Feature Attention		11:35-11:50	89	Ma, Qianxia*; Zhang, Ming; Xu, Yuchun; Song, Jingyan; Zhang, Tao		Remaining Useful Life Estimation for Turbopan Engine with Transformer-based Deep Architecture		11:35-11:50	25	Fan, Yuheng; Luo, Jing; Zuo, Lei; Wang, Ning*		A Regulable Linear Guidance Flexible Virtual Fixture Based on EMG in Teleoperation System		11:35-11:50	19	Shah, Satya R*; Goh, Chaw		Application of Value Stream Mapping in Global Manufacturing Environment	
11:50-12:05	30	Xu, Caorong*; Xu, Yuanping		Fall Detection in Elevator Cages Based on XGBoost and LSTM		11:50-12:05	56	Lu, Zhaolun*; Jiang, Junning; Chen, Wen-hua		Automatic Lane Merge based on Model Predictive Control		11:50-12:05	43	Shi, Yang*; Zhao, Wenhao; Wang, Jie; Li, Jian; Gerontitis, Dimitrios		Solving discrete time-varying complex division using recurrent neural network with disturbance suppression		11:50-12:05	20	Shah, Satya R*; Hong, Hen Wong		Load Optimisation and its influence on Automotive Supply Chain	
12:05-12:20	3	Tang, Jianfeng*; Xu, Yuanping		Local Phase Correction Method Based on Multi-Frequency Phase Heterodyne		12:05-12:20	70	Zhang, Qichun*		Variance Assignment for a Class of Stochastic Non-linear Systems		12:05-12:20	44	kebbati, yasmine m*		Optimized self-adaptive PID speed control for autonomous vehicles		12:05-12:20	22	Zhou, Guangbing*; Luo, Jing; Li, Ruiqing; Xiang, Kui; Xu, Shuozong; Pang, Muze; Tang, Berndt; Maximilian*; Fischer, Christoph; Krummacker, Dennis; Schotten, Hans D.		A framework of industrial operations for hybrid robots	
12:20-12:35	26	Sun, Hao*; Cheng, Yujuan; wang, yang; Wang, Bin; Yin, Shuyi		Learnable Quantization Loss Function Based on Expectation		12:20-12:35	71	Zhang, Qichun*; Yin, Xin		State Estimation for Stochastic Non-linear Systems via Backstepping Design		12:20-12:35	124	Wang, Shengkai*; Zhang, Jie		Enhanced Data-Driven Fault Diagnosis of Chemical Process via Information Fusion in Multiple Neural Networks and Andrews Plot		12:20-12:35	35			Deterministic Planning for Flexible Intralogistics	
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Session 1(B)		Chair: Wang, Jing Co-chair: Jiang, Jingjing		Topic: Computer Vision		Session 2(B)		Chair: Zhang, Qichun Co-chair: Yu, Hui		Topic: Computer vision		Session 3(B)		Chair: Yue, Hong Co-chair: Si, Welyong		Topic: Control Engineering		Session 4 (B)		Chair: Tian, Yingtao Co-chair: Huang, Darong		Topic: Manufacturing System	
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13:50-14:05	29	Wang, Wanting*; Xu, Yuanping		A Detection Method of Electro-bicycle in Elevators Based on Improved YOLO v4		13:50-14:05	159	Yajuan, Wei*; Dai, Chuan; Chen, Minxi; Xu, Zhiqie; Liu, Ying; Fan, Jiulun		Prohibited Items Detection in X-ray Images in YOLO Network		13:50-14:05	4	welyong si; Ning Wang ; Chenguang Yang*		Reactive and constrained motion primitive merging and adaptation		13:50-14:05	45	Hu, Youxi*		Review of The Optimization Algorithms for Remanufacturing Disassembly Line	
14:05-14:20	29	Shi, Yajing*; Xu, Yuanping		Recognition of Abnormal Human Behavior in Elevators based on CNN		14:05-14:20	116	Lu, Xiangwei*; Jian, Muwei; Wang, Rui; Liu, Xianyu; Lin, peibuan;		Video saliency detection based on temporal difference and pixel gradient		14:05-14:20	82	Moyron, Ierónimo*; Moreno-Valeuzuela, Javier; Sandoval, Jesús		Orbital stabilization for linear mechanical systems via a speed gradient algorithm		14:05-14:20	50	Blumberg, Julian*; Blumberg, Julian		Deformation error compensation of industrial robots in single point incremental forming by means of data-driven stiffness model	
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15:20-15:35	28	Hussain, Ambreen*; Barua, Bidushi; Osman, Ahmed; Abozariba, Raouf; Asyhar, A.		Performance of MobileNetV3 Transfer Learning on Handheld Device-based Real-Time Tree Species Identification		15:20-15:35	122	Chen, Tao*; Gu, Dongbing		6D Object Pose Estimation with Attention Network		15:20-15:35	164	Wei Huang *; Aziz Anees		Flight Delay Prediction: Data Analysis and Model Development		15:20-15:35	120	Loellger, Andrew D; Erfu Yang*; Iain Bomphray		An overview of automated manufacturing with composite materials	
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