Table of Contents

220_MEMAT2022	**Dynamic Modeling and Simulation of Autonomous Underwater Vehicle with Vectored Thruster** *Jie Li, Feng Li, Xing Wei*
221_MEMAT2022	**Phenomenology of non-standard model decay of Higgs boson** *Yi Zhuang, Yu Liu, Yiqing Tang, Dawei Xiao*
222_MEMAT2022	**Attentional Group Convolution Neural Network for Light-weight Face Recognition on On-board Computer** *Zhihao Wang, Libiao Jiang, Siyu Jiang, Qin Wang, Yanming Li, Weilin Zhang, Chunyun Zheng*
223_MEMAT2022	**Research and Application of Unmanned Submersible Vehicle Facing Polar Ice Formation** *Tong Lu, Yinke Dou, Yuchen Wang*
224_MEMAT2022	**Establishment of mathematical model for indoor particle pollutant concentration change and suggestions on the use of air filters** *Qiong Dong, Enshen Long*
225_MEMAT2022	**CAE Analysis and Modeling of Material Lightweight Commercial Vehicle Cab** *Qiang Wu*
226_MEMAT2022	**Application Research of Kriging Model in Modeling and Simulation of Aircraft Industry Process** *Yuning Wang, Haijun Yin, Tianjiao Zhang, Mingang Yin*
227_MEMAT2022	**Analysis of methods for detecting seat temperature of smart toilet** *Fang Liu, Tianyu Chen, Minjun Tang, Qiaoxin Yang*
228_MEMAT2022	**Research on the detection technology of Medical Diagnostic X-ray Machine based on machine vision** *Lingning Zhou, Fanqiang Lin, Danlei Chen, Wenjun Luo, Yue Liu*
229_MEMAT2022	**Optimizing Artificial Intelligence Algorithms on Data Classification and Generation** *Daqian Zuo*
230_MEMAT2022	**Research on emotion perception model based on wearable devices** *Xu Xu, Lanfei Li, Dongyu Li*
231_MEMAT2022	**Design optimization of agricultural machinery cab based on behavior analysis** *Ruitong Gao, Bin Qi, He Zhu, Yanhao Li, Li Wang, Shuhang Zhao*
232_MEMAT2022	**User-driven design and control of lower limb exoskeleton: an overview** *Dongqing Shao, Yumeng Yao, Seyed Alireza Moezi*
233_MEMAT2022	**Study on quantitative optimization of working system of low production and low efficiency oil wells** *Xiaoling Meng, Xiaochuang Ye, Hongbo Zhang, Xuedong Meng, Min Yang*
234_MEMAT2022	**An improved three-step phase unwrapping method for phase-shifting based 3D reconstruction** *Yang Zhang, Yu Liang, Xingyu Gao, Yang Huang*
235_MEMAT2022	**iJTAG Layout Design Based on Improved Simulated Annealing Algorithm** *Ke Zeng, Shouhong Chen, Jun Ma, Cuifeng Xu, YiZhen Xu*
236_MEMAT2022	**A novel algorithm of detecting corner points for the contours of lines and arcs** *BoYuan Liu, Ming Chen, Xiao Zhang, NanHua Huang, ShengLian Lu*

253_MEMAT2022	**High-speed image processing-based camera measurement system** *Liuyuanzhi Han, Tao Liu, Zhaowei Zhou, Yutong Chen, Min Yan*
254_MEMAT2022	**Flow field analysis and structure optimization of non-contact labyrinth seal** *LuJi Wu, Kunlong Li, Linjie Y ang, Jingyuan Wang*
255_MEMAT2022	**A construction Method and Application of Judgment Matrix under the Condition of Mapping** *Wei Fan, Zhan li Li, Li Zhu, Hong'an Li*
256_MEMAT2022	**Research on control algorithm of aircraft real fire fire training system** *Jian-shui Gao, Qing-qiang Wang*
257_MEMAT2022	**Laser Stripe Center Extraction Based on Ridgeline Tracking Algorithm** *Gang Rao, Wang Zhang*
258_MEMAT2022	**Privacy issues involved in data mining and countermeasures** *Jing Liu*
259_MEMAT2022	**Investigation of Space Heat Flow Simulation Method for Infrared Camera on IGSO** *Feng Yu, Ping Zhang*
260_MEMAT2022	**Data collection system based on the printed circuit board drilling production line** *Hongyan Shi, Xupeng Hu, Jiaqi Huang, Siyuan Peng, Yonghui Li*
261_MEMAT2022	**The progress of Kaon Decay and C-P Violation** *Chenxi Liu, Jianing Hua, Pengbo Xia*
262_MEMAT2022	**Calculation method of spatial coordinates of shaft parts** *Yong Gan, Boqiao Zeng, Chenjian Rao*
263_MEMAT2022	**Structure Strength Calculation and Analysis for the Small Waterplane Area Twin Hull** *Pan Zhou, Lisha Gao*
264_MEMAT2022	**Realization and optimization of Sobel edge detection algorithm for Domestic DCU accelerators** *Hao Zhang, Lin Han, Jingming Xie, Ke Ma*
265_MEMAT2022	**Edge extraction algorithm of metal parts based on binarization** *Yong Gan, Chengjian Rao, Boqiao Zeng*
266_MEMAT2022	**Noise Robust High Resolution Range Profile Analysis in OFDM-Based RadCom Systems** *Xuanxuan Tian*
267_MEMAT2022	**Non-contact Taylor-Couette Flow Observation Based on Particle Image Velocimetry Technology** *Kai-Di Yang, Xi Chen, Min Wu, Peng Liu, Hu Li, Shao-Yu Hu, Hai-Dong Zhu*
268_MEMAT2022	**Experimental study of synchronous belt defect detection based on improved ICP algorithm** *Wusheng Tang, Yishi Bai, Jinhua Zhang, Zhiyuan Wei*
269_MEMAT2022	**An accurate location method of cargo pallets based on multi-line liDAR** *Bing Kuang, Yi Chu*
270_MEMAT2022	**Research on structural sound transmission based on acoustic black hole** *Yansheng Wen, Shiming He, Weiguang Zheng*

271_MEMAT2022	**Numerical simulation of Temperature field and stress distribution for Inconel 718 by selective electron beam melting** *Binjun Ma, Zhiguo Peng, Hailang Liu, Caimin Huang, Chuanshang Ji, Haiyang Liu*
272_MEMAT2022	**Research and application of cargo location optimization problem** *Yanxu Lei, Xiaojun Guo, Qiangqiang Liu, Miaomiao Wang*
273_MEMAT2022	**Calculation model of deformation and stress-resultants of cylindrical helical torsion spring with variable cross-section used in overrunning clutch** *Yuming Cao, Hongzhi Yan, Minghao Lin, Bo Wen*
274_MEMAT2022	**Signal Distortion Analyzer Based on C2000** *Lixiang Gao, Mingxin Yang, Xiayu Zhang, Tao Liu*
275_MEMAT2022	**Accelerated Defect Detection using Memory Vector Scaling** *Zhicong Zhu, Zhuliang Yu*
276_MEMAT2022	**Survey of Safety and Security Verification of Operating System Kernel Based on Formal Method** *Yingsheng Wang, Yongliang Ni, Juqiu Lin, Xiaoyu Yang*
277_MEMAT2022	**Analysis of research hotspots and trends of digital twins in the context of intelligent manufacturing** *Li Wang, Hui Chen, Qian Ye*
278_MEMAT2022	**Experimental investigation and numerical simulations of the cylindrical machining of a Ti-6Al-4V tree** *Mohamed Sahli1, David Bassir, Baohua Guo, Thierry Barrière, Gongfa Chen*
279_MEMAT2022	**Comparison of Four AI Algorithms in Connect Four** *Yiran Qiu, Zihong Wang, Duo Xu*
280_MEMAT2022	**A corner-point based online heuristic for the pallet loading problem in intelligent warehouse** *Yuxiao Zhang, Yaohua Wu, Mingjie Zhang*