

Special Topic: Large Multimodal Models

Motion-aware generative frame interpolation	150101(14)
Guozhen ZHANG, Yuhan ZHU, Yutao CUI, Xiaotong ZHAO, Kai MA & Limin WANG	
Gelm: graph-based Tanimoto similarity grouping pretraining and entropy-guided conformer selection finetuning for large language models ...	150102(15)
Zhuo CHEN, Sihan WANG, Linjiang CHEN, Wenjie DU & Yang WANG	
Shenbi: accelerating video diffusion models with INT8-attention.....	150103(20)
Haishuang FAN, Ao LV & Guihai YAN	
MNAFT: modality neuron-aware fine-tuning of multimodal large language models for image translation	150104(17)
Bo LI, Ningyuan DENG, Tianyu DONG, Shaobo WANG, Shaolin ZHU & Lijie WEN	
Multimodal prior-augmented text-driven 3D human-object interaction generation.....	150105(15)
Yin WANG, Ziyao ZHANG, Zhiying LENG, Haitian LIU, Frederick W.B. LI, Mu LI & Xiaohui LIANG	
Multimodal 3D object detection for autonomous driving under vision-language supervision: a contrastive-learning perspective.....	150106(14)
Chunmian LIN, Wenze ZHANG, Yanyan CHEN, Lei YANG, Han JIANG, Daxin TIAN, Xuting DUAN, Jianshan ZHOU & Dongpu CAO	
CT-Agent: a multimodal-LLM agent for 3D CT radiology question answering.....	150107(20)
Yuren MAO, Wenyi XU, Yuyang QIN & Yunjun GAO	

Special Topic: Millimeter-Wave and Terahertz Phased-Array and System-Integration Technologies

Design of a wideband phased array using true-time-delay and phase-shifter (TTD-PS) hybrid beamforming for beam squint mitigation	150301(13)
Shan JIANG, Peigen YU, Huiqi LIU, Jingjuan HU & Dixian ZHAO	
A circular-polarization high-efficiency wide-angle-AR four-beam AIP phased array for commercial aerospace communication	150302(16)
Aihu SONG, Jian DAI, Kun YANG, Jingang ZHANG, Ruiying ZHANG & Yujian CHENG	
Silicon-based MEMS hybrid packaging approach for terahertz front-end integration: architecture, design, and prototype validation.....	150303(16)
Sen LU, Yizhu SHEN, Fang HOU, Jiapeng WAN, Yifan DING, Zhen LIN & Sanming HU	
Terahertz on-chip non-diffractive OAM metasurface antenna based on silicon microfabrication technology.....	150304(18)
Shu-Yan ZHU, Yilong CAI, Yunchu LI & Geng-Bo WU	
One-dimensional planar multi-beam dual-polarized transmitarray for large-scale hybrid beamforming system.....	150305(2)
Meicheng LIU, Yuefeng HOU & Kaixue MA	
Demonstration of tracking and communication based on sub-terahertz phased-array system for next-generation intelligent mobile scenarios ...	150306(2)
Haoyi CAO, Zheng WANG, Weipeng WANG, Jiancong WEI, Yaxin ZHANG, Wenbo LI, Xinkang ZHANG, Kai HUANG, Ziming XU, Hongxin ZENG, Lin HUANG, Ziqiang YANG & Yaxin ZHANG	
An H-band sliding-IF transmitter and receiver chipset in 130-nm SiGe BiCMOS	150307(2)
Shouqing FU, Shuyang LI, Shunhua HU, Quanqin LIAO, Huibo WU & Wenhua CHEN	

REVIEW

A literature review of literature reviews in pattern analysis and machine intelligence	151101(25)
Penghai ZHAO, Xin ZHANG, Jiayue CAO, Ming-Ming CHENG, Jian YANG & Xiang LI	
Continuous representation methods, theories, and applications: an overview and perspective.....	151102(44)
Yisi LUO, Xile ZHAO & Deyu MENG	
Cognitive navigation	151201(34)
Yi YANG, Tao WANG, Miaoxin PAN, Yiqing ZHANG, Yufeng YUE & Mengyin FU	
Multi-agent embodied AI: advances and future directions	151202(31)
Zhaohan FENG, Ruiqi XUE, Lei YUAN, Yang YU, Ning DING, Meiqin LIU, Bingzhao GAO, Jian SUN, Xinhu ZHENG & Gang WANG	

RESEARCH PAPER

Trend virtual adversarial training for semi-supervised time series classification.....	152101(18)
Qingyi PAN, Liyuan WANG, Jingyi ZHANG, Jun ZHU & Ning CHEN	
Tackling data heterogeneity in federated time series forecasting.....	152102(15)
Wei YUAN, Chaoqun YANG, Xiangyu ZHAO, Quoc Viet Hung NGUYEN, Yang CAO, Tieke HE & Hongzhi YIN	

Graph-based topology reasoning for driving scenes	152103(12)
Tianyu LI, Li CHEN, Huijie WANG, Yang LI, Jiazhi YANG, Xiangwei GENG, Hang XU, Chunjing XU, Junchi YAN, Ping LUO & Hongyang LI	
Improving image-text alignment with an optimal feature sub-space-aware similarity learning framework.....	152104(17)
Kun ZHANG, Jingyu LI, Zhe LI, Huatian ZHANG, Lei ZHANG, Zhendong MAO & Yongdong ZHANG	
TrackSSM: a general motion predictor using a state space model.....	152105(13)
Bin HU, Run LUO, Zelin LIU, Cheng WANG & Wenyu LIU	
FPP-Former: a transformer-based end-to-end architecture for semantic and structural reconstruction of large-scale floor plate plans.....	152106(13)
Jing WANG, Haoran XIONG, Zihao YAN, Qizhi YU, Minglun GONG & Hui HUANG	
Anamorphic commitment: robust privacy under coercion and parameter tampering.....	152107(16)
Weiqi WANG, Yubo ZHENG, Peng XU, Wei WANG, Rongmao CHEN, Yifan YANG & Moti YUNG	
Monotonically-increasing-function-based event-triggered sampling scheme for stabilization of networked nonlinear systems	152201(15)
Xian-Ming ZHANG, Qing-Long HAN, Baolin ZHANG & Xiaohua GE	
Observer-based active fault/disturbance compensation control for fully actuated systems	152202(17)
Weijie REN, Guang-Ren DUAN, Ping LI & He KONG	
Structure of finite games with symmetric potential functions.....	152203(16)
Yaqi HAO & Daizhan CHENG	
Optimized stochastic resource allocation using graph neural networks.....	152204(14)
Qing WANG, Yujue WANG, Bin XIN, Haoran WANG & Jia ZHANG	
Distributed fault-tolerant control for multi-agent pursuit-evasion games under communication link faults	152205(20)
Wenjing HOU, Li LIANG & Youqing WANG	
Dynamic-event-based distributed cooperative learning of unknown nonlinear systems over directed connected graphs	152206(19)
Shi-Lu DAI, Penghai WEN & Min WANG	
Exploring Hannan limitation for 3D antenna array	152301(21)
Ran JI, Chongwen HUANG, Xiaoming CHEN, Wei E. I. SHA, Zhaoyang ZHANG, Jun YANG, Kun YANG, Chau YUEN & Mérouane DEBBAH	
DRL-based scheduling for spatiotemporal dependent tasks in industrial wireless control system	152302(18)
Sha LI, Lei SUN, Jianquan WANG, Wanli NI, Hui TIAN, Yuntian Brian BAI & Haijun ZHANG	

POSITION PAPER

Large processor chip model	153401(32)
Kaiyan CHANG, Mingzhi CHEN, Yunji CHEN, Zhirong CHEN, Dongrui FAN, Junfeng GONG, Nan GUO, Yinhe HAN, Qinfen HAO, Shuo HOU, Xuan HUANG, Pengwei JIN, Changxin KE, Cangyuan LI, Guangli LI, Huawei LI, Kuan LI, Naipeng LI, Shengwen LIANG, Cheng LIU, Hongwei LIU, Jiahua LIU, Junliang LV, Jianan MU, Jin QIN, Bin SUN, Chenxi WANG, Duo WANG, Mingjun WANG, Ying WANG, Chenggang WU, Peiyang WU, Teng WU, Xiao XIAO, Mengyao XIE, Chenwei XIONG, Ruiyuan XU, Mingyu YAN, Xiaochun YE, Kuai YU, Rui ZHANG, Shuoming ZHANG & Jiacheng ZHAO	

MOOP

Experimental demonstration of forward distortion compensation based on amplitude-phase block modulation for nonlinear wireless communications	154301(3)
Min FAN, Cheng YI, Haiming WANG, Wei XU, Bensheng YANG & Xiaohu YOU	

PERSPECTIVE

Entity-centric data management for the ubiquitous computing era.....	156101(3)
Yanyan SHEN, X. Sean WANG, Xiaoyong DU, Beng Chin OOI & Hong MEI	

LETTER

Prototype-guided diffusion alignment for few-shot unsupervised domain adaptation	159101(2)
Heyang SUN, Chuanxing GENG & Songcan CHEN	
Foresighted real-time hierarchical resource scheduling in dynamic multi-domain satellite networks.....	159301(2)
Hongmei HE, Di ZHOU, Min SHENG, Jiandong LI & Chau YUEN	
A novel novel polar-coded multipath-cluster-alignment receiver for high-data-rate long-range deep-sea acoustic communications.....	159302(2)
Yanfeng ZHAO, Feng TONG, Xiaoyu YANG, Weihua JIANG & Yuehai ZHOU	
A sensing-memory-computing integrated optoelectronic synaptic device based on Ag/PtTe ₂ /FTO for artificial vision information processing..	159401(2)
Xin ZHANG, Xiaojuan LIAN, Shiyu LI, Nan HE, Chaoyi BAN, Junyuan CHEN, Xiaoyan LIU, Dapeng YAN, Wen HUANG, Zhikuang CAI & Lei WANG	
High threshold voltage and enhanced threshold voltage stability of Schottky p-GaN gate HEMT by p-GaN bridge engineering.....	159402(2)
Kuo ZHANG, Kai LIU, Yunlong HE, Chong WANG, Wentao ZHANG, Xuefeng ZHENG, Xiaohua MA & Yue HAO	