

From CAS & CAE Members

When AI meets sustainable 6G110301(19)
Xiaohu YOU, Yongming HUANG, Cheng ZHANG, Jiaheng WANG, Hao YIN & Hequan WU

REVIEW

Privacy-preserving explainable AI: a survey111101(34)
Thanh Tam NGUYEN, Thanh Trung HUYNH, Zhao REN, Thanh Toan NGUYEN, Phi Le NGUYEN,
Hongzhi YIN & Quoc Viet Hung NGUYEN
Deep learning-based software engineering: progress, challenges, and opportunities111102(88)
Xiangping CHEN, Xing HU, Yuan HUANG, He JIANG, Weixing JI, Yanjie JIANG, Yanyan JIANG, Bo LIU, Hui LIU,
Xiaochen LI, Xiaoli LIAN, Guozhu MENG, Xin PENG, Hailong SUN, Lin SHI, Bo WANG, Chong WANG, Jiayi WANG,
Tiantian WANG, Jifeng XUAN, Xin XIA, Yibiao YANG, Yixin YANG, Li ZHANG, Yuming ZHOU & Lu ZHANG

RESEARCH PAPER

GPS: graph contrastive learning via multi-scale augmented views from adversarial pooling112101(14)
Wei JU, Yiyang GU, Zhengyang MAO, Ziyue QIAO, Yifang QIN, Xiao LUO, Hui XIONG & Ming ZHANG
Channel pruning on frequency response112102(12)
Hang LIN, Yifan PENG, Lin BIE, Chenggang YAN, Xibin ZHAO & Yue GAO
Domain generalization with semi-supervised learning for people-centric activity recognition.....112103(18)
Jing LIU, Wei ZHU, Di LI, Xing HU & Liang SONG
COMPrompter: reconceptualized segment anything model with multiprompt network for camouflaged object detection112104(15)
Xiaoqin ZHANG, Zhenni YU, Li ZHAO, Deng-Ping FAN & Guobao XIAO
Personalized federated few-shot node classification.....112105(15)
Yunfeng ZHAO, Xintong HE, Guoxian YU, Jun WANG, Yongqing ZHENG & Carlotta DOMENICONI
Inexact proximal gradient algorithm with random reshuffling for nonsmooth optimization112201(19)
Xia JIANG, Yanyan FANG, Xianlin ZENG, Jian SUN & Jie CHEN
Aperiodically semi-intermittent-based fixed-time stabilization and synchronization of delayed discontinuous inertial
neural networks112202(17)
Guodong ZHANG & Jinde CAO
Stabilities of delay stochastic McKean-Vlasov equations in the G-framework112203(23)
Haiyan YUAN & Quanxin ZHU
Exit options sustain altruistic punishment and decrease the second-order free-riders, but it is not a panacea112204(14)
Chen SHEN, Zhao SONG, Lei SHI, Jun TANIMOTO & Zhen WANG
Dynamic event-triggered data-driven iterative learning bipartite tracking control for nonlinear MASs with
prescribed performance112205(14)
Tao SHI & Wei-Wei CHE
Distributed optimal consensus control for multiagent systems based on event-triggered and prioritized experience
replay strategies112206(16)
Cuijuan ZHANG, Lianghao JI, Shasha YANG, Xing GUO & Huaqing LI
Decentralized fault diagnosis of discrete-event systems with unreliable sensors using linear temporal logic112207(20)
Wei jie DONG, Shaoyuan LI & Xiang YIN
Secure beamforming and deployment design for rate-splitting multiple access-based UAV communications112301(15)
Bing WANG, Xiaofeng TAO, Shujun HAN, Huici WU, Kai YANG & Zhu HAN
MoS₂ synaptic transistor with one-step manufacture112401(9)
Yihao GUO, Yang WANG, Wenjie DENG, Yi WU, Jingtao LI, Kexin LI, Yuehui ZHAO, Songlin YU,
Xiaoting WANG, Yongzhe ZHANG & Hui YAN
Software-defined process-near-memory architecture using 3D hybrid bonding integration112402(13)
Anlin XU, Chenchen DENG, Jianfeng ZHU, Yao WANG, Shaohui WEI & Leibo LIU
Achieving ultralow leakage current in Schottky-MIS cascode anode lateral field-effect diode based on AlGaIn/GaN HEMT112403(7)
Fangzhou WANG, Changhong GAO, Guojian DING, Cheng YU, Zhuocheng WANG, Xiaohui WANG, Qi FENG,
Ping YU, Peng ZUO, Wanjun CHEN, Yang WANG, Haiqiang JIA, Hong CHEN, Bo ZHANG & Zeheng WANG

MOOP

Experimental demonstration of 220-GHz terahertz signals wireless transmission over 4.6 km114301(3)
Yi WEI, Jianjun YU, Mingxu WANG, Xiongwei YANG, Qitong ZHANG, Jingwen TAN, Bing ZHANG,
Ying WU, Yang HAN, Peng TIAN, Wen ZHOU, Kaihui WANG & Feng ZHAO

PERSPECTIVE

The optimal control theory — a scientific approach to fundamentally solving control problems116201(3)
Huanshui ZHANG

LETTER

PS-CoT-Adapter: adapting plan-and-solve chain-of-thought for ScienceQA119101(2)
Qun LI, Haixin SUN, Fu XIAO, Yiming WANG, Xinping GAO & Bir BHANU
Multi-receptive field interaction network for shape from polarization.....119102(2)
Yini PENG, Rui LIU, Zhiyuan ZHANG, Zhongyuan WANG, Jiayi MA & Xin TIAN
Physics based circuit compatible model for hybrid antiferroelectric random access memory119401(2)
Qiuxia WU, Yue PENG, Wenwu XIAO, Wenxuan MA, Shuo ZHANG, Litao SUN, Chunfu ZHANG,
Xiaohua MA & Yue HAO
Orbitronics for energy-efficient magnetization switching119402(2)
Yuxuan YAO, Daoqian ZHU, Qingtao XIA, Jianing LIANG, Yuhao JIANG, Zhiyang PENG, Jiaxu LI, Chen XIAO,
Renyong XU, Wenwen WANG, Xiantao SHANG, Shiyang LU, Dapeng ZHU, Hong-Xi LIU, Kaihua CAO & Weisheng ZHAO
Dynamic performance enhancement in Ti/Au ohmic contacts on β -Ga₂O₃-on-SiC substrates: evidence from
pulsed measurements119403(2)
Chenyu LIU, Yibo WANG, Wenhui XU, Shuqi HUANG, Chunxiao YU, Zeyu YANG, Xiaole JIA, Xiaoxi LI, Bochang LI,
Zhengdong LUO, Cizhe FANG, Yan LIU, Tianguai YOU, Xin OU & Genquan HAN
Analysis and solution of streak effect in high dynamic range CMOS image sensors119404(2)
Wanbin ZHA, Jiangtao XU, Jinghua AO, Kaiming NIE & Zhiyuan GAO
Substrate bias effects in p-channel GaN-on-Si transistors119405(2)
Mengyao ZHAO, Jie MA, Lanlan YANG, Chuanqi PAN, Denggui WANG, Jianjun ZHOU, Sheng LI, Jiaying WEI,
Long ZHANG, Siyang LIU & Weifeng SUN