



JOURNAL OF IMAGE AND GRAPHICS

主办: 中国科学院空天信息创新研究院
中国图象图形学学会
北京应用物理与计算数学研究所

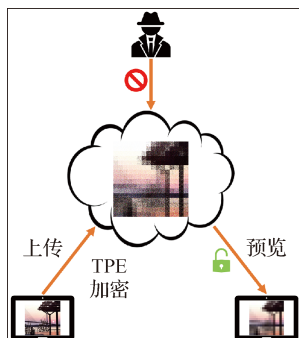
中国图象 图形学报

2023
03
VOL.28

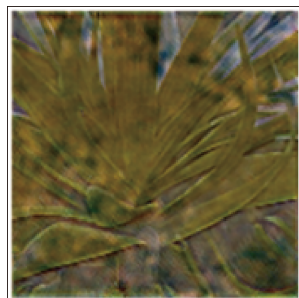
ISSN1006-8961
CN11-3758/TB



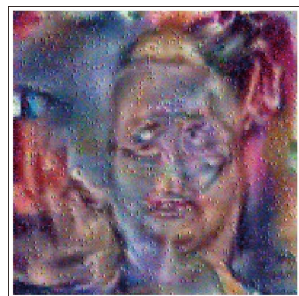
智能图像安全



云存储图像缩略图保持的加密研究进展(第0645页)



发送方可否认图像隐写(第0760页)



面向轻量级深度伪造检测的无数据模型压缩(第0820页)

《中国图象图形学报》智能图像安全专刊简介

钱振兴, 张卫明, 李晓龙, 秦川, 卢伟, 陈秀妍 0643

综述

云存储图像缩略图保持的加密研究进展

赵若宇, 叶茜, 周文韬, 张玉书, 柴秀丽 0645

图像处理

融合2D压缩感知的缩略图格式保留加密隐私保护

匡琳, 邹孟雷, 温文嫒 0666

利用功能图形的防伪码图像盲去模糊

刘畅, 郑宏, 王田玉, 周承卓 0680

边缘加强的超高清视频质量评估

滕建新, 何杰锋, 袁锦春, 邢凤闯, 王捍贫 0691

信息隐藏

利用运动向量差值改善深度学习视频隐写分析

胡永健, 黄雄波, 王宇飞, 刘琲贝, 刘烁炜 0702

面向医学图像加密域大容量信息隐藏与认证方法

温文嫒, 邹孟雷, 方玉明, 张玉书, 左一帆 0716

全体变长编码映射的JPEG可逆信息隐藏

王可, 吴绍武, 尹晓琳, 付婧巧, 陈兵, 卢伟 0734

面向可逆图像处理网络的可证安全自然隐写

王健, 陈可江, 张卫明, 俞能海 0749

发送方可否认图像隐写

徐勇, 夏志华 0760

图像取证

语义一致性引导的多任务拼接篡改检测

张玉林, 王宏霞, 张瑞, 张婧媛 0775

结合面部纹理和前/背景差异的人脸活体检测

朱建秋, 华阳, 宋晓宁, 吴小俊, 冯振华 0789

CNN结合Transformer的深度伪造高效检测

李颖, 边山, 王春桃, 卢伟 0804

面向轻量级深度伪造检测的无数据模型压缩

卓文琦, 李东泽, 王伟, 董晶 0820

模型安全

抑制图像非语义信息的通用后门防御策略

郭钰生, 钱振兴, 张新鹏, 柴洪峰 0836

基于多质量因子压缩误差的对抗样本攻击方法识别

赵俊杰, 王金伟, 吴俊凤 0850

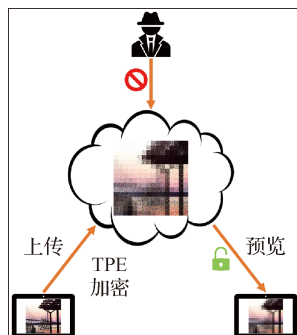
隐蔽图像后门攻击

朱淑雯, 罗戈, 韦平, 李晟, 张新鹏, 钱振兴 0864

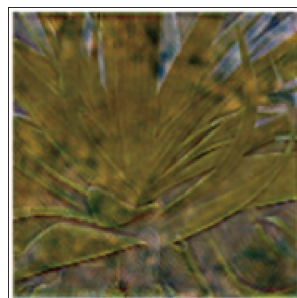
封面素材由中国科学技术大学网络空间安全学院俞能海和张卫明团队提供。

CONTENTS

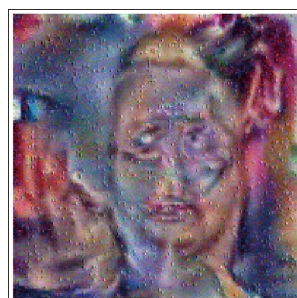
JOURNAL OF IMAGE AND GRAPHICS



Cloud-stored image thumbnail-preserving encryption(P0645)



Sender-deniable image steganography(P0760)



Data-free model compression for light-weight DeepFake detection (P0820)

Review

Cloud-stored image thumbnail-preserving encryption

Zhao Ruoyu, Ye Xi, Zhou Wentao, Zhang Yushu, Chai Xiuli 0645

Image Processing

Two dimensional compressed-sensing-relevant thumbnail-preserving encryption method

Kuang Lin, Zou Menglei, Wen Wenying 0666

Functional patterns-relevant blind-deblurring method for anti-counterfeiting code images

Liu Chang, Zheng Hong, Wang Tianyu, Zhou Chengzhuo 0680

Edge-enhanced ultra high definition video quality assessment

Teng Jianxin, He Jiefeng, Yuan Jinchun, Xing Fengchuang, Wang Hanpin 0691

Information Hiding

Improving deep learning-based video steganalysis with motion vector differences

Hu Yongjian, Huang Xiongbo, Wang Yufei, Liu Beibei, Liu Shuowei 0702

Large-capacity data hiding and authentication method in encrypted domain for medical image

Wen Wenying, Zou Menglei, Fang Yuming, Zhang Yushu, Zuo Yifan 0716

General variable-length code mapping relevant reversible data hiding in JPEG bitstream

Wang Ke, Wu Shaowu, Yin Xiaolin, Fu Jingqiao, Chen Bing, Lu Wei 0734

Image processing network-inverted identifiable secure natural steganography

Wang Jian, Chen Kejiang, Zhang Weiming, Yu Nenghai 0749

Sender-deniable image steganography

Xu Yong, Xia Zhihua 0760

Image Forensics

Semantic consistency-relevant multitask splicing-tampered detection

Zhang Yulin, Wang Hongxia, Zhang Rui, Zhang Jingyuan 0775

Human facial texture and fore-background differences-relevant anti-spoofing detection

Zhu Jianqiu, Hua Yang, Song Xiaoning, Wu Xiaojun, Feng Zhenhua 0789

CNN and Transformer-coordinated deepfake detection

Li Ying, Bian Shan, Wang Chuntao, Lu Wei 0804

Data-free model compression for light-weight DeepFake detection

Zhuo Wenqi, Li Dongze, Wang Wei, Dong Jing 0820

Model Security

Non-semantic information suppression relevant backdoor defense implementation

Guo Yusheng, Qian Zhenxing, Zhang Xinpeng, Chai Hongfeng 0836

Adversarial attack method identification model based on multi-factor compression error

Zhao Junjie, Wang Jinwei, Wu Junfeng 0850

Image-imperceptible backdoor attacks

Zhu Shuweng, Luo Ge, Wei Ping, Li Sheng, Zhang Xinpeng, Qian Zhenxing 0864