

TEERAPONG PANBOONYUEN, PH.D.

MARS - Motor AI Recognition Solution, 86/1 Thai Virawat Building (15th Floor), Klongsan, BKK 10600
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RESEARCH INTERESTS

- AI, Machine learning (including Data Science), Deep learning: Computer Vision and Pattern Recognition
- **Tech Toolkit:** Python; PyTorch; AWS; GCP; GPT; HuggingFace; GenerativeAI; Kubernetes; API

EDUCATION

Postdoctoral Visiting Scholar in AI for Understanding Satellite Imagery 2022 - Present
Chulalongkorn University

Research Topic: Land Use and Land Cover (LULC) Using Sequence-to-Sequence Perspective with Transformers
Published a research paper in a Tier 1/Q1 journal

Postdoctoral Researcher in AI 2021 - 2022
Chulalongkorn University

Research Topic: Semantic Labeling in Remote Sensing Corpora Using Convolutional Neural Network
Published a research paper in a Tier 1/Q1 journal

Ph.D. in Computer Engineering 2017 - 2020
Chulalongkorn University (GPAX: 4.00/4.00)

Dissertation Title: Semantic Segmentation on Remotely Sensed Images Using Deep Convolutional Encoder-Decoder Neural Network (Evaluation: Very Good)

M.Eng. in Computer Engineering 2015 - 2016
Chulalongkorn University (GPAX: 4.00/4.00)

Thesis Title: Semantic Road Segmentation on Remotely-Sensed Images Using Deep Convolutional Neural Networks and Landscape Metrics (Evaluation: Very Good)

B.Eng. in Computer Engineering 2012 - 2015
KMUTNB (GPAX: 3.11/4.00)

Thesis Title: Lumbar Spinal Canal Stenosis Classification (Evaluation: Grade A)

PROFESSIONAL EXPERIENCE

AI/ML Team Lead (Senior) — Motor AI Recognition Solution (MARS) Jan 2022 - Present

- Developed an AI model called **MARS: Mask Attention Refinement with Sequential Quadtree Nodes** for the MARS company. The project was presented at the International Conference on Image Analysis and Processing, ICIAP 2023, held in Udine, Italy, from September 11-15, 2023, and published in the conference proceedings.
- New research starts with understanding, AI-model creating (in the tasks: Image Classification, Object Detection, Instance Segmentation, Domain Adaptation, Explainable AI (XAI), Interpretable AI, or Explainable Machine Learning (XML), etc.), reproducing, and verifying ai results in the auto insurance industry.
- Provides API to the service team (frontend and backend) to download and use our pre-trained models on car insurance and garage tasks, then transferred to production.
- Novel research (in the databases: CVPR, ICLR, ICCV, ECCV, NeurIPS, PAMI, etc.) involves inventing new models that will likely break the design assumptions of existing models.
- Spearhead the creation and refinement of cutting-edge deep learning architectures, leveraging your expertise to develop next-generation models that surpass current benchmarks.
- Drive the exploration and implementation of novel AI algorithms, pushing the boundaries of deep learning to solve complex challenges and optimize performance across diverse domains.
- Architect and deploy state-of-the-art deep learning solutions for autonomous systems, contributing significantly to the evolution of self-driving cars, drones, or robotics.

- Develop groundbreaking Machine Vision and NLP frameworks using deep learning methodologies, transforming language understanding and generation capabilities to empower innovative applications.

Visiting Faculty - College of Computing, Khon Kaen University

June 2023 - Present

- Teach undergraduate and postgraduate students the course: **SC320002 Business Intelligence, CP020001 Introduction to Computers and Programming**, and **SC310005 Artificial Intelligence and Machine Learning Application** delivering engaging and informative lectures.
- Develop and update course materials, including syllabi, assignments, and assessments, to ensure students receive a comprehensive education in Business Intelligence.
- Deliver high-quality instruction in the **AI and Machine Learning** course to undergraduate and graduate students, promoting a deep understanding of the subject matter.
- Instruct the **Big Data** course for undergraduate and postgraduate students, providing comprehensive and up-to-date education in the field.
- Ministerial Order on the Appointment of Academic Staff (**Order 5907-2566 Khon Kaen University**)

Dept. of Survey Engineering — Chulalongkorn University

July 2022 - Present

- My postdoc research focused on designing and providing an alternative perspective by treating LULC as a sequence-to-sequence prediction task on remote sensing corpora.
- Advisor: Chalermchon Satirapod and Chaiyut Charoenphon

AI Research Scientist (Department Manager) — CJ Express and TILDI

Nov 2020 - Aug 2021

- Apply Data Science and AI technology (PySpark, Deep Learning) in Barter for Demand Forecasting in Retail Grocery Stores.
- Working as Artificial Intelligence Researcher with Machine Learning, Big Data Solutions; Hadoop, PySpark for Demand Forecasting Project via Data Innovation Team.
- Fine-Grained Time Series Forecasting at Scale with PySpark, Deep Learning, and Visualizing Demand Seasonality.

Dept. of Computer Engineering — Chulalongkorn University

Sep 2015 - Apr 2022

Postdoctoral Researcher, Ph.D./M.Eng. Candidate

My research focused on designing and building deep encoder-decoder networks for semantic segmentation on satellite images. My academic interests mainly lie at the intersection of Remote Sensing, Computer Vision, and Machine Learning, and I work at the Machine Intelligence and Knowledge Discovery Lab (MIND Lab).

- My PostDoc Research (Full Paper, 2021): <https://www.mdpi.com/2072-4292/13/24/5100>
- My Publication Dissertation (Full Text, 2020): <http://cuir.car.chula.ac.th/handle/123456789/70297>
- My Publication Thesis (Full Text, 2016): <http://cuir.car.chula.ac.th/handle/123456789/55593>
- Advisor: Peerapon Vateekul, Siam Lawawirojwong, Kulsawasd Jitkajornwanich, and Panu Srestasathiern

Graduate Teaching Assistant — Chulalongkorn University

Sep 2015 - Apr 2022

Co-instructed the annual offering on machine learning to undergraduate/graduate students.

Revised the course content to include hands-on experience with Python programming.

- 2140101 Computer Programming (Java, ISE, Chulalongkorn University)
- 2110101 Computer Programming (Python, 1st year bachelor of Faculty of Engineering)
- 2110627 Big Data Tools (Master Student)
- 2110446 Data Science and Data Engineering (3rd-year bachelor of Computer Engineering)
- (Online Course, Head TA) Intro to Data Analytics and Big Data (<https://mooc.chula.ac.th>)
- (Online Course, Head TA) Practical Data Analytics Using Rapid Miner (<https://mooc.chula.ac.th>)

Artificial Engineer (Freelance) — GISTDA

Mar 2016 - Dec 2020

- AI research in the laboratory of Siam Lawawirojwong and Panu Srestasathiern
- 1st Project: Automated land-use/land-cover classification (LULC) Map Production using Deep Learning

- 2nd Project: A Multi-class Deep Learning Approach for LULC Classification of LANDSAT-8 Satellite Images
- 3rd Project: Deep Learning Based Forest Fire Classification in LANDSAT-8 Satellite Images

Data Technical Support (Freelance) — Bank of Thailand

Mar 2020

Writing python script to download for various data sources: Sentinel-2 L1C, Sentinel-2 L2A, Sentinel-1, Landsat 8, etc.

Create radiometrically terrain correct (RTC) on sentinel-1 data using python

Data Science (Freelance) — Centaco Farm Company Limited

2019 - 2020

Implement and design a hatchability prediction model of broiler chickens by using a regression model

Problem solving for a quadratic relationship between the predicted hatchability and the age of the breeders

Research Assistant (Freelance) — Digital Economy Promotion Agency

2019 - 2020

Creating the AI model and computer vision technique to segment multi-objects on aerial and satellite image

Pathway Assistant (Part-time) — Bangkok Innovation House

Dec 2018 - Jan 2020

Data science pathway team of Chula Mooc achieve with Volunteer Teaching (Practical Data Analytics)

- Metropolitan Electricity Authority (MEA) and Metropolitan

Computer Technical Support — Main Shipping Service

2017 - 2020

Design and deploy functional networks (WAN, LAN, WLAN), including configure and install software, servers, routers and other network devices. Maintain complete technical documentation and suggest network performance, capacity and scalability improvements.

AWARDS AND HONORS

- **H.M. the King Bhumibhol Adulyadej's** 72nd Birthday Anniversary Scholarship (Master)
- The 100th Anniversary Chulalongkorn University Fund for Doctoral Scholarship (Ph.D.)
- The 90th Anniversary of Chulalongkorn University Scholarship (Ph.D.)
- Ratchadapisek Somphot Fund for 2021 Postdoctoral Fellowship, Chulalongkorn University (PostDoc)
- Ratchadapisek Somphot Fund for 2022 Postdoctoral Fellowship, Chulalongkorn University (PostDoc)
- Ratchadapisek Somphot Fund for 2023 Postdoctoral Fellowship, Chulalongkorn University (PostDoc)
- **Best Student Paper Award** in International Conference on Computing and Information Technology 2017
- Reviewer for International Journals/Conferences (ISI, Scopus, DBLP, etc.)

REFEREED PUBLICATIONS

1. **Panboonyuen, Teerapong**, et al. MeViT: A Medium-Resolution Vision Transformer for Semantic Segmentation on Landsat Satellite Imagery for Agriculture in Thailand. *Remote Sensing* 15.21 (2023): 5124.
2. **Panboonyuen, Teerapong**, et al. MARS: Mask Attention Refinement with Sequential Quadtree Nodes for Car Damage Instance Segmentation. *International Conference on Image Analysis and Processing*. Cham: Springer Nature Switzerland, 2023.
3. **Panboonyuen, Teerapong**, et al. Object Detection of Road Assets Using Transformer-Based YOLOX with Feature Pyramid Decoder on Thai Highway Panorama. *Information* 13.1 (2022): 5.
4. **Panboonyuen, Teerapong**, et al. Transformer-Based Decoder Designs for Semantic Segmentation on Remotely Sensed Images. *Remote Sensing* 13.24 (2021): 5100.
5. **Panboonyuen, Teerapong**, et al. Semantic Labeling in Remote Sensing Corpora Using Feature Fusion-Based Enhanced Global Convolutional Network with High-Resolution Representations and Depthwise Atrous Convolution. *Remote Sensing* 12.8 (2020): 1233.
6. **Panboonyuen, Teerapong**, et al. Semantic Segmentation on Remotely Sensed Images Using an Enhanced Global Convolutional Network with Channel Attention and Domain Specific Transfer Learning. *Remote Sensing* 11.1 (2019): 83.
7. **Panboonyuen, Teerapong**, et al. Road segmentation of remotely-sensed images using deep convolutional neural networks with landscape metrics and conditional random fields. *Remote Sensing* 9.7 (2017): 680.

8. **Panboonyuen, Teerapong**, et al. An enhanced deep convolutional encoder-decoder network for road segmentation on aerial imagery. International Conference on Computing and Information Technology. Springer, Cham, 2017.
9. **Panboonyuen, Teerapong**, et al. Image Vectorization of Road Satellite Data Sets, Journal of Remote Sensing and GIS Association of Thailand (2017)
10. Wichakam, I., **Panboonyuen, T.**, Udomcharoenchaikit, C., and Vateekul, P. (2018, February). Real-Time Polyps Segmentation for Colonoscopy Video Frames Using Compressed Fully Convolutional Network. In International Conference on Multimedia Modeling (pp. 393-404). Springer, Cham.
11. Vajeethaveesin, T., **Panboonyuen, T.**, Lawawironjwong, S., Srestasathiern, P., Jaiyen, S., & Jitkajornwanich, K. (2022). A Performance Comparison between GIS-based and Neuron Network Methods for Flood Susceptibility Assessment in Ayutthaya Province. Trends in Sciences, 19(2), 2038-2038.
12. Jitkajornwanich, K., Vateekul, P., **Panboonyuen, T.**, Lawawirojwong, S., and Srisonphan, S. (2017, December). Road map extraction from satellite imagery using connected component analysis and landscape metrics. In 2017 IEEE International Conference on Big Data (Big Data) (pp. 3435-3442). IEEE.
13. Chantharaj, S., Pornratthanapong, K., Chitsinphayakun, P., **Panboonyuen, T.**, Vateekul, P., Lawavironjwong, S., ... & Jitkajornwanich, K. (2018, July). Semantic Segmentation On Medium-Resolution Satellite Images Using Deep Convolutional Networks With Remote Sensing Derived Indices. In 2018, the, the 15th International Joint Conference on Computer Science and Software Engineering (JCSSE) (pp. 1-6). IEEE.
14. Kantavat, P., Hayashi, Y., City, G. S., Kijisirikul, B., **Panboonyuen, T.**, Achariyaviriya, W., ... & Vateekul, P. Transportation Mobility Factor Extraction Using Image Recognition Techniques, First International Conference on Smart Technology & Urban Development (STUD 2019).
15. Intarat, K.; Rakwatin, P.; **Panboonyuen, T.** Enhanced Feature Pyramid Vision Transformer for Semantic Segmentation on Thailand Landsat-8 Corpus. Information 2022, 13, 259.
16. Thitisiriwech, K., **Panboonyuen, T.**, Kantavat, P., Iwahori, Y. and Kijisirikul, B., 2022. The Bangkok Urbanscapes Dataset for Semantic Urban Scene Understanding Using Enhanced Encoder-Decoder with Atrous Depthwise Separable A1 Convolutional Neural Networks. IEEE Access.
17. Thitisiriwech, K., **Panboonyuen, T.**, Kantavat, P., Kijisirikul, B., Iwahori, Y., Fukui, S., & Hayashi, Y. (2023). Quality of Life Prediction in Driving Scenes on Thailand Roads Using Information Extraction from Deep Convolutional Neural Networks. Sustainability, 15(3), 2847.

PROFESSIONAL SERVICE

- Invited Reviewer of **Pattern Recognition** (Elsevier) (Q1, ISI Journal)
- Invited Reviewer of **Neurocomputing** (Elsevier) (Q1, ISI Journal)
- Invited Reviewer of **Computer Vision and Image Understanding** (Elsevier) (Q1, ISI Journal)
- Invited Reviewer of **Computers and Geosciences** (Elsevier) (Q1, ISI Journal)
- Invited Reviewer of **PLOS ONE** (Q1, Public Library of Science, ISI Journal)
- Invited Reviewer of **Scientific Reports** (Q1, Nature)
- Invited Reviewer of **Remote Sensing** (Q1, MDPI, ISI Journal)
- Invited Reviewer of **Forests** (Q1, MDPI, ISI Journal)
- Invited Reviewer of **International Journal of Remote Sensing** (Tier1, Q1, ISI Journal)
- Invited Reviewer of International Journal of Image and Data Fusion
- Invited Reviewer of International Journal of Distributed Sensor Networks
- Invited Reviewer of International Journal of Imaging Systems and Technology (Q2, Journal)
- Invited Reviewer of International Journal of Digital Earth
- Invited Reviewer of International Journal of Pavement Engineering
- Invited Reviewer of International Journal of Food Properties

- Invited Reviewer of IEEE Transactions on Artificial Intelligence
- Invited Reviewer of IEEE Transactions on Geoscience and Remote Sensing (Tier1, Q1, ISI Journal)
- Invited Reviewer of IEEE Transactions on Industrial Informatics (Q1, ISI Journal)
- Invited Reviewer of IEEE Transactions on Emerging Topics in Computational Intelligence
- Invited Reviewer of IEEE Transactions on Radiation and Plasma Medical Sciences (Q1, ISI Journal)
- Invited Reviewer of IEEE Transactions on Vehicular Technology
- Invited Reviewer of IEEE Transactions on Human-Machine Systems
- Invited Reviewer of IEEE Transactions on Circuits and Systems for Video Technology
- Invited Reviewer of IEEE Access (Q1, ISI Journal)
- Invited Reviewer of IEEE Sensors Journal
- Invited Reviewer of IEEE Intelligent Systems (Q1, ISI Journal)
- Invited Reviewer of IET Image Processing (Q2, ISI Journal)
- Invited Reviewer of Geo-spatial Information Science
- Invited Reviewer of Sensors (Q2, Journal)
- Invited Reviewer of Computational Intelligence and Neuroscience (Journal, Hindawi)
- Invited Reviewer of Computer Methods in Biomechanics and Biomedical Engineering
- Invited Reviewer of Mathematical Problems in Engineering (Journal, Hindawi)
- Invited Reviewer of Journal of Spatial Science (Q2, Journal, Taylor, and Francis)
- Invited Reviewer of Journal of Healthcare Engineering (Q2, Journal, Hindawi Limited)
- Invited Reviewer of IETE Technical Review (Q2 Journal)
- Invited Reviewer of IETE Journal of Research (Q4 Journal)
- Invited Reviewer of Transactions in GIS (Wiley-Blackwell Publishing Ltd, Q1 Journal)
- Invited Reviewer of Transactions on Network Science and Engineering (Journal)
- Invited Reviewer of Connection Science (Q3, AI, Taylor and Francis AS, Journal)
- Invited Reviewer of Industrial Lubrication and Tribology (Q3, Emerald Group Publishing Ltd., Journal)
- Invited Reviewer of Transactions on Consumer Electronics (Q1, IEEE Transactions, Journal)
- Invited Reviewer of Industrial Lubrication and Tribology (Emerald Group Publishing Ltd., Q2, Journal)
- Invited Reviewer of Imaging Science Journal (Maney Publishing, Q2, Journal)
- Invited Reviewer of Cybernetics and Systems (Taylor and Francis Ltd.)
- Invited Reviewer of Open Geosciences
- Invited Reviewer of Geocarto International
- Invited Reviewer of Engineering Reports
- Invited Reviewer of Journal of Agricultural Engineering

SKILLS

Computer Languages

Tech Stack

Software & Tools

Machine Learning Libraries

Other Libraries

Model Evaluation

GitHub

Python, Java, Processing, R, C, MATLAB, Golang

Google Cloud Platform (GCP), AWS, SageMaker, S3, Flask, Docker, Streamlit

Git, RapidMiner Studio, Google Data Studio, Tableau, Power BI

Pytorch, TensorFlow and Keras, Theano, Pandas, Scikit-Learn

Hugging Face, Gradio, GDAL, Beautiful Soup and Selenium, Seaborn and Plotly

Weights and Biases (WandB), TensorBoard, Streamlit

<https://github.com/kaopanboonyuen>

Teerapong Panboonyuen

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Publication Metrics

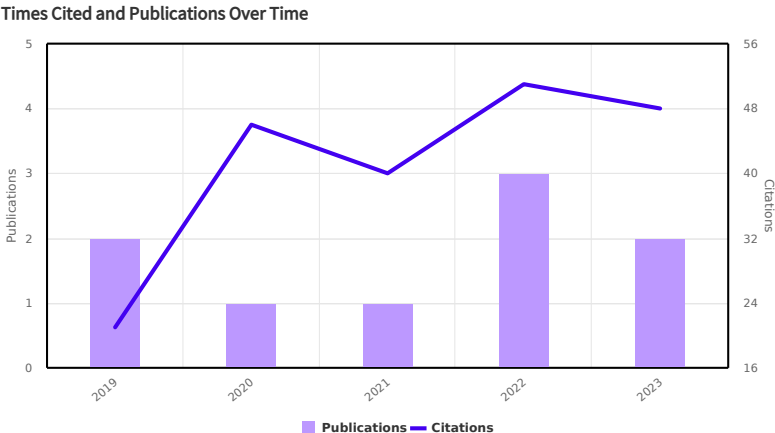
For manuscripts published from date range July 2019 - July 2024

4	63
H-index	Sum of Times Cited
9	8
Total Publications	Web of Science Core Collection Publications

For all time

6	245
H-index	Sum of Times Cited
14	13
Total Publications	Web of Science Core Collection Publications
1	
Sum of Times Cited by Patents	

Publication Impact Over Time



Publishing Summary

For manuscripts published from date range July 2019 - July 2024

(3) Remote Sensing	(2) Information
(1) Sustainability	(1) IEEE Access
(1) First International Conference on...	(1) ArXiv

Publications

For manuscripts published from date range July 2019 - July 2024 (8)

Times Cited
(All time)

MeViT: A Medium-Resolution Vision Transformer for Semantic Segmentation on Landsat Satellite Imagery for Agriculture in Thailand Published: Nov 2023 in Remote Sensing DOI: 10.3390/RS15215124	0
Quality of Life Prediction in Driving Scenes on Thailand Roads Using Information Extraction from Deep Convolutional Neural Networks Published: Feb 2023 in Sustainability DOI: 10.3390/SU15032847	2
Enhanced Feature Pyramid Vision Transformer for Semantic Segmentation on Thailand Landsat-8 Corpus Published: May 2022 in Information DOI: 10.3390/INFO13050259	1
Object Detection of Road Assets Using Transformer-Based YOLOX with Feature Pyramid Decoder on Thai Highway Panorama Published: Jan 2022 in Information DOI: 10.3390/INFO13010005	9
The Bangkok Urbanscapes Dataset for Semantic Urban Scene Understanding Using Enhanced Encoder-Decoder With Atrous Depthwise Separable A1 Convolutional Neural Networks Published: 2022 in IEEE Access DOI: 10.1109/ACCESS.2022.3176712	5
Transformer-Based Decoder Designs for Semantic Segmentation on Remotely Sensed Images Published: Dec 2021 in Remote Sensing DOI: 10.3390/RS13245100	34
Semantic Labeling in Remote Sensing Corpora Using Feature Fusion-Based Enhanced Global Convolutional Network with High-Resolution Representations and Depthwise Atrous Convolution Published: Apr 2020 in Remote Sensing DOI: 10.3390/RS12081233	8

Preprints

For preprints published from date range July 2019 - July 2024 (1)

Times Cited
(All time)

MARS: Mask Attention Refinement with Sequential Quadtree Nodes for Car
Damage Instance Segmentation

0

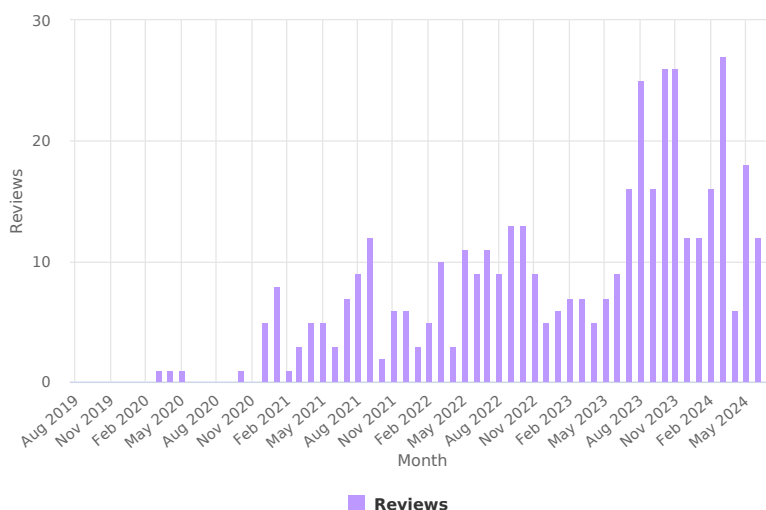
Authors (6): Panboonyuen, Teerapong; Nithisopa, Naphat ... Pornwiriyakul,
Naruepon

Published: May 2023

Accession Number: PPRN:68557093

Verified Reviews

Review Summary



Reviewer Summary

For manuscripts reviewed from date range July 2019 - July 2024

(79) International Journal of Remote...	(65) IEEE Access
(27) IET Image Processing	(18) IEEE Transactions on Emerging ...
(12) International Journal of Digital ...	(9) Canadian Journal of Remote Sen...
(9) IEEE Sensors Journal	(8) IET Computer Vision
(8) Plos One	(7) European Journal of Remote Sen...

(7) Connection Science	(6) Remote Sensing
(6) IEEE Transactions on Medical Im...	(6) IEEE Transactions on Industrial In...
(6) Expert Systems	(5) Forests
(5) Measurement Science and Techn...	(5) Journal of Spatial Science
(5) IEEE Transactions on Radiation a...	(5) Remote Sensing Letters
(4) Mathematics	(4) Nuclear Science and Techniques
(4) IEEE Transactions on Intelligent T...	(4) Geocarto International
(4) IET Intelligent Transport Systems	(3) IEEE Transactions on Very Large ...
(3) International Journal of Pattern R...	(3) IEEE Transactions on Image Proc...
(3) IEEE Transactions on Automation...	(3) Transactions in GIS
(3) IEEE Transactions on Information...	(3) International Journal of Imaging ...
(3) Electronics Letters	(3) International Journal of Image an...
(3) IEEE Sensors Letters	(2) Pest Management Science
(2) IEEE Transactions on Human-Ma...	(2) IEEE Transactions on Big Data
(2) IEEE Transactions on Power Deliv...	(2) The Imaging Science Journal
(2) IEEE Transactions on Medical Ro...	(2) ACM Transactions on Knowledge ...
(2) IEEE Transactions on Vehicular T...	(2) Structural Health Monitoring
(2) IEEE Transactions on Intelligent V...	(2) GIScience & Remote Sensing
(2) IEEE Intelligent Systems	(2) Digital Health
(2) Industrial Lubrication and Tribolo...	(2) Computer Methods in Biomecha...
(1) Symmetry	(1) IEEE Photonics Journal
(1) Canadian Journal of Civil Engine...	(1) Engineering Research Express
(1) Food Bioengineering	(1) Biomedical Physics & Engineerin...
(1) ACM Transactions on Intelligent S...	(1) Journal of Vibration and Control
(1) IEEE Transactions on Mobile Com...	(1) Concurrency and Computation: P...
(1) Ultrasonic Imaging	(1) Composites and Advanced Mater...
(1) IEEE Transactions on Fuzzy Syste...	(1) Geomatics, Natural Hazards and ...
(1) IEEE Internet of Things Journal	(1) Progress in Physical Geography
(1) Interpretation	(1) Network: Computation in Neural ...
(1) Computer Methods in Biomecha...	(1) IEEE Transactions on Pattern Ana...
(1) Artificial Intelligence for Enginee...	(1) Cybernetics & Systems

(1) CyTA - Journal of Food	(1) IEEE Transactions on Reliability
(1) Atmosphere	(1) Geo-Spatial Information Science
(1) Nondestructive Testing and Eval...	(1) Pertanika Journal of Science and ...
(1) China Geology	(1) Processes
(1) Engineered Science	(1) Engenharia Agricola
(1) International Journal of Food Pro...	(1) International Journal of Pavemen...
(1) IEEE Photonics Technology Letters	(1) Applied AI Letters
(1) IEEE Signal Processing Letters	(1) IEEE Transactions on Circuits and...
(1) IEEE Intelligent Transportation Sy...	(1) IEEE Transactions on Computatio...
(1) Applied Sciences	(1) IET Communications
(1) River	(1) Journal of Marine Science and En...
(1) Journal of Agricultural Engineeri...	(1) Land Degradation & Development
(1) CSEE Journal of Power and Energ...	(1) IET Signal Processing
(1) IEEE Transactions on Neural Net...	(1) IEEE Transactions on Neural Syst...
(1) IEEE Transactions on Consumer ...	(1) The Journal of Engineering
(1) Computational Intelligence	(1) IEEE Network Magazine
(1) IEEE Transactions on Network Sci...	(1) IETE Journal of Research
(1) IETE Technical Review	(1) International Journal of Distribut...
(1) IEEE Transactions on Geoscience...	

437 REVIEWS OF 317 MANUSCRIPTS

For manuscripts published from date range July 2019 - July 2024

LTSCD-YOLO : A Lightweight Algorithm for Detecting Typical Satellite Components Based on Improved YOLOv8

2 rounds from May 2024 to Jul 2024 for Remote Sensing

FMCNet : A Fuzzy Multiscale Convolution Network for Remote Sensing Image Segmentation

2 rounds from Mar 2024 to Jul 2024 for Canadian Journal of Remote Sensing

An attention-based multiscale few-shot network for water body extraction from GF-2 satellite imagery

Reviewed: Jul 2024 for Canadian Journal of Remote Sensing

Spherical Superpixel Segmentation with Context Identity and Contour Intensity

Reviewed: Jul 2024 for Symmetry

A Hybrid Attention Mechanism and RepGFPN Method for Detecting Wall Cracks in High-Altitude Cleaning Robots

Reviewed: Jul 2024 for IEEE Photonics Journal

Utilizing Deep Learning Models and LiDAR Data for Automated Semantic Segmentation of Infrastructure on Multilane Rural Highways

Reviewed: Jul 2024 for Canadian Journal of Civil Engineering

SarAdapter: Prioritizing Attention on Semantic-Aware Representative Tokens for Enhanced Medical Image Segmentation

Reviewed: Jul 2024 for IEEE Transactions on Medical Imaging

DLB-CNet: Difference Learning-Based Convolution Network for Building Change Detection

3 rounds from May 2024 to Jun 2024 for IEEE Transactions on Very Large Scale Integration (VLSI) Systems

Swin2Fill: Image Inpainting algorithm based on SwinV2 Transformer and Fast Fourier Convolution structure

Reviewed: Jun 2024 for International Journal of Pattern Recognition and Artificial Intelligence

Photoelasticity physical neural network for photoelastic stress field recovery

Reviewed: Jun 2024 for Engineering Research Express

Depth Prior-Guided 3D Voxel Feature Fusion for 3D Semantic Estimation from Monocular Video

Reviewed: Jun 2024 for Mathematics

High Precision Copper Grade Identification Via Vision Transformer with PGNAE Technique

2 rounds from May 2024 to Jun 2024 for Nuclear Science and Techniques

Attention for semantic segment networks for weed segmentation in lawn

2 rounds from May 2024 to Jun 2024 for Pest Management Science

Advanced Machine Learning for Subject-Oriented Web Content Classification: A Topic Modeling Approach

Reviewed: Jun 2024 for IEEE Transactions on Human-Machine Systems

Intelligent classification and identification method for Conger myriaster freshness based on DWG-YOLOv8 network model

Reviewed: Jun 2024 for Food Bioengineering

NCNet: Deformable medical image registration network based on neighborhood cross-attention combined with multi-resolution constraints

Reviewed: Jun 2024 for Biomedical Physics & Engineering Express

Dynamic Convolution Neural Networks with both Global and Local Attention for Image Classification

Reviewed: Jun 2024 for Mathematics

Mitosis Detection from Breast Histopathology Images Using a Transformer-Based Network: Mi-DETR

2 rounds from May 2024 to Jun 2024 for IEEE Transactions on Medical Imaging

PreCM: The Padding-based Rotation Equivariant Convolution Mode for Semantic Segmentation

Reviewed: May 2024 for IEEE Transactions on Image Processing

Chinese Character Recognition based on Swin Transformer-Encoder

Reviewed: May 2024 for IEEE Transactions on Big Data

Automatic extraction and 3D modeling of real road scenes using UAV imagery and deep learning semantic segmentation

Reviewed: May 2024 for International Journal of Digital Earth

MMNet: Multi-resolution and Multi-scale Attention Network for Underwater Image Enhancement and Super-resolution

Reviewed: May 2024 for ACM Transactions on Intelligent Systems and Technology

Transmission Line Equipment Multi-label Classification Based on Dual-mask Transformer

Reviewed: May 2024 for IEEE Transactions on Power Delivery

An Accurate Detection and Segmentation Model of Traction Substation Equipment for High-Speed Railway Based on Cascade Query Embedding

Reviewed: May 2024 for IEEE Transactions on Power Delivery

ME-Seg&DLS-Net: A dataset and a network for autonomous driving based on multi-element semantic segmentation of pavement

3 rounds from Dec 2023 to May 2024 for IEEE Transactions on Emerging Topics in Computational Intelligence

A hybrid network TEdgeNeXt for data-limited and resource-constrained fault diagnosis

Reviewed: May 2024 for Journal of Vibration and Control

Incorporating Convolutional and Transformer Architectures to Enhance Semantic Segmentation of Fine-Resolution Urban Images

2 rounds from Mar 2024 to May 2024 for European Journal of Remote Sensing

Multi-Feature Fusion and Multi-Attention Deep Network for Enhancing Road Extraction in Remote Sensing Images

3 rounds from Jan 2024 to May 2024 for European Journal of Remote Sensing

Multi-Task Semantic Communication With Graph Attention-Based Feature Correlation Extraction

Reviewed: May 2024 for IEEE Transactions on Mobile Computing

Enhancing Satellite View Images using Enhanced Super Resolution GANS

Reviewed: May 2024 for The Imaging Science Journal

A forest fire smoke detection model combining convolutional neural network and vision transformer

Reviewed: May 2024 for Concurrency and Computation: Practice and Experience

Advancing Segmentation of Ultrasound Images Using Customized Finetuning Strategies

Reviewed: Apr 2024 for Ultrasonic Imaging

FFEDet: Fine-Grained Feature Enhancement for Small Object Detection

Reviewed: Apr 2024 for Remote Sensing

Triple-Supervised Convolutional Transformer Aggregation for Robust Monocular Endoscopic Dense Depth Estimation

2 rounds from Dec 2023 to Apr 2024 for IEEE Transactions on Medical Robotics and Bionics

Forest Fires Smoke Recognition Algorithm Based on 4D-MENet

Reviewed: Apr 2024 for Forests

Surface defect detection and semantic segmentation with a novel lightweight deep neural network

5 rounds from Feb 2024 to Apr 2024 for Measurement Science and Technology

Star-Transformer based Semantic Enhanced Union Relationship Extraction

Reviewed: Apr 2024 for ACM Transactions on Knowledge Discovery from Data

Smoke Detection for Early Forest Fires Based on Improved Vision Transformer

Reviewed: Mar 2024 for Forests

Segmentation Studies on Al-Si-Mg Metallographic Images Using Various Different Deep Learning Algorithms and Loss Functions

Reviewed: Mar 2024 for Composites and Advanced Materials

Hybrid-Segmentor: A Hybrid Approach to Automated Damage Detection on Civil Infrastructure

Reviewed: Mar 2024 for IEEE Transactions on Automation Science and Engineering

A Foreground Prototype-Based Extraction Method for Interpretable Fine-Grained Image Classification

Reviewed: Mar 2024 for ACM Transactions on Knowledge Discovery from Data

Interagating Sentinel-2A, Sentinel 1A, and GF-2 imagery to improve the accuracy of forest aboveground biomass estimation in dry-hot valley

Reviewed: Mar 2024 for Forests

MCSiT: Multiple CNN-assisted signal transformer for multi-task parameter estimation with sparse MoE

2 rounds from Sep 2023 to Mar 2024 for IEEE Transactions on Vehicular Technology

Could Ordinary Satellite Optical Images Detect Landslides by Unsupervised Learning? A Case Study on Rainfall-induced Landslide Clusters

Reviewed: Mar 2024 for Geomatics, Natural Hazards and Risk

EDWNet: A Novel Encoder-Decoder Architecture Network for Water Body Extraction from Optical Images

Reviewed: Mar 2024 for International Journal of Digital Earth

Fuzzy Enhanced Feature Extraction for 3D Reconstruction: Applications in Biomedical Imaging with Neural Radiance Fields

Reviewed: Mar 2024 for IEEE Transactions on Fuzzy Systems

USTSeg: An Unsupervised U-Shaped Segmentation Model for Industrial Surface Defect Detection Using Swin Transformer Blocks

Reviewed: Mar 2024 for IEEE Internet of Things Journal

A Smart Machine Learning Method for Effective Discovery of Farm Parcels through High Resolution Satellite Imagery

Reviewed: Mar 2024 for Progress in Physical Geography

Semantic segmentation for multisource remote sensing images incorporating feature slice reconstruction and attention upsampling

Reviewed: Mar 2024 for International Journal of Remote Sensing

E-UNetFormer for High accuracy Semantic Segmentation of Urban Remote Sensing Images

Reviewed: Mar 2024 for IET Computer Vision

Automated instance segmentation of asphalt pavement patches based on deep learning

2 rounds from Jan 2024 to Mar 2024 for Structural Health Monitoring

FAULT-TRANSFORMER: AN AUTOMATIC FAULT DETECTION ALGORITHM ON SEISMIC IMAGES USING A TRANSFORMER ENHANCED NEURAL NETWORK

Reviewed: Mar 2024 for Interpretation

Research on the accuracy of different texture features in high resolution remote sensing image classification based on deep learning

Reviewed: Mar 2024 for Journal of Spatial Science

SeRNet: Segmentation helps Reconstruction for Anomaly Detection

Reviewed: Mar 2024 for IEEE Transactions on Industrial Informatics

Enhanced Satellite Imagery Analysis for Post-Disaster Building Damage Assessment Using Integrated ResNet-U-Net Model

Reviewed: Mar 2024 for Network: Computation in Neural Systems

RL-USRegi: Fully automated Ultrasound Registration for Radiation-Free Spine Navigation using Reinforcement Learning

Reviewed: Mar 2024 for IEEE Transactions on Automation Science and Engineering

Nested Transformer Decoder using dense skip-connection for remote sensing change detection
2 rounds from Jul 2023 to Mar 2024 for International Journal of Remote Sensing

WFormer: A Transformer-based Soft Fusion Model for Robust Image Watermarking

4 rounds from Aug 2023 to Mar 2024 for IEEE Transactions on Emerging Topics in Computational Intelligence

Unlocking visual attraction: The subtle relationship between image features and attractiveness

Reviewed: Feb 2024 for Mathematics

Recognition of Cardiac Arrhythmia based on Multimodal Data using Extended UNet based Hybrid Bio-inspired Deep Convolution Neural Network

Reviewed: Feb 2024 for Computer Methods in Biomechanics and Biomedical Engineering

InvPT++: Inverted Pyramid Multi-Task Transformer for Visual Scene Understanding

Reviewed: Feb 2024 for IEEE Transactions on Pattern Analysis and Machine Intelligence

Segmentation method of U-net sheet metal engineering drawing based on CBAM attention mechanism

Reviewed: Feb 2024 for Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM

MFE-MVSNet: Multi-scale Feature Enhancement Multi-view Stereo With Bi-directional Connections

Reviewed: Feb 2024 for IET Image Processing

HR_BMNet a boundary perception and multiresolution fusion network for semantic segmentation of remote sensing imagery

Reviewed: Feb 2024 for European Journal of Remote Sensing

Operation Assessment of a Hybrid Distribution Transformer Compensating Voltage and Power Factor Using Predictive Control

Reviewed: Feb 2024 for Mathematics

Vision Transformer-Based Sugarcane Disease Classification: Integrating Hybrid Shifted Windows for Enhanced Precision

Reviewed: Feb 2024 for Cybernetics & Systems

Towards Sustainable Agriculture: A Novel Approach for Rice Leaf Disease Detection Using dCNN and Enhanced Dataset

2 rounds from Nov 2023 to Feb 2024 for IEEE Access

Enhanced large-scale building extraction evaluation: Developing a two-level framework using proxy data and building matching

Reviewed: Feb 2024 for International Journal of Remote Sensing

Computer vision classification detection of chicken parts based on optimized Swin-Transformer

Reviewed: Feb 2024 for CyTA - Journal of Food

Semantic Segmentation of Nighttime Road Scene Based on Unsupervised Domain Adaptation

Reviewed: Feb 2024 for IEEE Transactions on Intelligent Vehicles

LowDDAWP-Net: Low-resolution Double Deep Audio Waveform Prior Network for Audio Systems Reliability Defence

Reviewed: Feb 2024 for IEEE Transactions on Reliability

Triple-View Knowledge Distillation for Semi-Supervised Semantic Segmentation

2 rounds from Nov 2023 to Feb 2024 for IEEE Transactions on Image Processing

EB-Net: an efficient balanced network for accuracy and speed of remote sensing detection

2 rounds from Nov 2023 to Jan 2024 for International Journal of Remote Sensing

Deep learning-based rooftop extraction method for high spatial resolution remote sensing image supported by sample optimization

Reviewed: Jan 2024 for Transactions in GIS

A nuclide identification method of γ spectrum and model building based on the Transformer

2 rounds from Nov 2023 to Jan 2024 for Nuclear Science and Techniques

Dugs-UNet: A Novel Deep Semantic Segmentation Approach to Convection Detection based on FY-4A Geostationary Meteorological Satellite

Reviewed: Jan 2024 for Atmosphere

SAFE: Unsupervised image feature extraction using self-attention based feature extraction network

2 rounds from Aug 2023 to Jan 2024 for Expert Systems

A Machine Learning-Based Digital Twin for Anti-Counterfeiting Applications With Copy Detection Patterns

3 rounds from Jul 2023 to Jan 2024 for IEEE Transactions on Information Forensics and Security

ADAC: An Active Domain Adaptive Network with Progressive Learning Strategy for Cloud Detection of Remote Sensing Imagery

Reviewed: Jan 2024 for Geo-Spatial Information Science

A Multifaceted Architecture to Automate Essay Scoring for Assessing English Article Writing: Integrating Semantic, Thematic, and Linguistic Representations

Reviewed: Jan 2024 for Plos One

An automated detection model of threat objects for X-Ray baggage inspection based on modified encoder-decoder model

Reviewed: Jan 2024 for Nondestructive Testing and Evaluation

A shape-aware enhancement Vision Transformer for building extraction from remote sensing imagery

2 rounds from Oct 2023 to Dec 2023 for International Journal of Remote Sensing

RTPSegNet: a Region to Patch Top-down Pyramid Framework for Semantic Segmentation of Large-format High-resolution Remote Sensing Images

Reviewed: Dec 2023 for Remote Sensing

Evaluating CNN Architecture for Analysing Historical Topographic Hardcopy Maps Analysis: A Study on Training and Validation Accuracy Variation

Reviewed: Dec 2023 for Pertanika Journal of Science and Technology

Improved SE-UNet network-based semantic segmentation and implied geological significance from geological map

Reviewed: Dec 2023 for China Geology

The System of Preliminary Road Diagnostics Based on Open Remote Sensing and Climatic Data

Reviewed: Dec 2023 for Engineered Science

An Effective Semantic Segmentation Networks with Multi-Path Attention for Industrial Meter Pointer Images

Reviewed: Dec 2023 for IEEE Transactions on Industrial Informatics

From Segmentation to Classification: A Deep Learning Scheme for Sintered Surface Images Processing

Reviewed: Dec 2023 for Processes

A Multi-Task Framework for Car Detection from High-Resolution UAV Imagery Focusing on Road Regions

Reviewed: Dec 2023 for IEEE Transactions on Intelligent Transportation Systems

Enhanced U-Net Algorithm for Typical Crop Classification using GF-6 WFV Remote Sensing Images

Reviewed: Dec 2023 for Engenharia Agricola

Automatic Radiology Report Generator Using Transformer With Contrast-Based Image Enhancement

3 rounds from Sep 2023 to Nov 2023 for IEEE Access

Study on visual localization and evaluation of automatic freshwater fish cutting system based on deep learning framework

Reviewed: Nov 2023 for International Journal of Food Properties

Crop field extraction from high resolution remote sensing images based on semantic edges and spatial structure map

Reviewed: Nov 2023 for Geocarto International

An Efficient Automated Image Caption Generation by the Encoder Decoder Model

2 rounds from Jul 2023 to Nov 2023 for International Journal of Pattern Recognition and Artificial Intelligence

Local-enhanced multi-scale aggregation swin transformer for semantic segmentation of high-resolution remote sensing images

2 rounds from Oct 2023 to Nov 2023 for International Journal of Remote Sensing

D-Unet: A symmetric architecture of convolutional neural network with two auxiliary outputs for dementia recognition

Reviewed: Nov 2023 for International Journal of Imaging Systems and Technology

Unmanned Aerial Vehicle-Based Ice Condition Assessment: Ice Concentration Extraction in Urban River, A Case Study of Harbin Section in Songhua River

Reviewed: Nov 2023 for International Journal of Remote Sensing

Deep hypersphere architectures to anomaly detection in high-dimensional space

Reviewed: Nov 2023 for Expert Systems

A new global multiplexing structure of original features for road crack detection

Reviewed: Nov 2023 for International Journal of Pavement Engineering

GuidNet: A Method for Laser Stripe Extraction under Reflection Interference

Reviewed: Nov 2023 for IEEE Photonics Technology Letters

Road Detection in High Resolution Aerial Images Using U-Net

Reviewed: Nov 2023 for IEEE Transactions on Intelligent Transportation Systems

Vegetation segmentation using oblique photogrammetry point clouds based on RSPT network

Reviewed: Nov 2023 for International Journal of Digital Earth

Deep Learning-based Integrated Circuit Surface Defect Detection: Addressing Information Density Imbalance for Industrial Application

Reviewed: Nov 2023 for Applied AI Letters

Boundary-enhanced dual-stream network for semantic segmentation of high-resolution remote sensing images

2 rounds from Aug 2023 to Nov 2023 for GIScience & Remote Sensing

A multiscale feature fusion enhanced CNN with the multiscale channel attention mechanism for efficient landslide detection (MS2LandsNet) using medium-resolution remote sensing data

2 rounds from Sep 2023 to Nov 2023 for International Journal of Digital Earth

Satellite image segmentation for landcover mapping using atrous spatial pyramid pooling and a lightweight self-attention mechanism

Reviewed: Nov 2023 for Journal of Spatial Science

Multi-stream pyramid collaborative network for spectral unmixing

2 rounds from Oct 2023 to Nov 2023 for International Journal of Remote Sensing

Research on meteorological recognition method based on improved spatio-temporal two-stream network model

Reviewed: Nov 2023 for Plos One

SOIF-DN: Preserving Small Object Information Flow with Improved Deep Learning Model

Reviewed: Nov 2023 for IEEE Access

Centre-loss - a preferred class verification approach over sample-to-sample in self-checkout products datasets

Reviewed: Nov 2023 for IET Computer Vision

UIE-Convformer: Underwater Image Enhancement Based on Convolution and Feature Fusion Transformer

3 rounds from Jul 2022 to Nov 2023 for IEEE Transactions on Emerging Topics in Computational Intelligence

BiSS-YOLOX: Steel Surface Defects Detection Using YOLOX Based on Bi-directional Separable Self-attention and Transfer Learning

Reviewed: Nov 2023 for Connection Science

Mixture-of-Experts and Semantic-Guided Network for Brain Tumor Segmentation with Missing MRI Modalities

Reviewed: Oct 2023 for IEEE Signal Processing Letters

A Pre-trained Data Deduplication Model based on Active Learning

Reviewed: Oct 2023 for IEEE Transactions on Human-Machine Systems

Leveraging Bounding Box Annotations for Fish Segmentation in Underwater Images

2 rounds from Aug 2023 to Oct 2023 for IEEE Access

Multimodal Medical Image Fusion Based on Dilated Convolution and Attention-Based Graph Convolutional Networks

Reviewed: Oct 2023 for IEEE Transactions on Circuits and Systems for Video Technology

Contextual Bands Addition and Multi-Look Inferencing to Improve Semantic Segmentation Model Performance on Satellite Images

Reviewed: Oct 2023 for Journal of Spatial Science

Pine wood nematode disease area identification based on multi-temporal multi-source remote sensing images and BIT model

Reviewed: Oct 2023 for Geocarto International

CMPF-UNet: a ConvNeXt multi-scale pyramid fusion U-shaped network for multi-category segmentation of remote sensing images

Reviewed: Oct 2023 for Geocarto International

Detection and Monitoring for Enhanced Prevention of Grain Plant Disease Using Classification-Based Deep Ensemble Neural Networks in Smart Agriculture

Reviewed: Oct 2023 for International Journal of Remote Sensing

Deep Learning-based Standard Sign Language Discrimination

Reviewed: Oct 2023 for IEEE Access

LoLTV: A Low Light Two-wheeler Violation Dataset with Anomaly Detection Technique

Reviewed: Oct 2023 for IEEE Access

Semantic Segmentation of Buildings from Multiscale High Spatial Resolution Aerial and Satellite Imagery Using Feature-Guided Deep Learning

Reviewed: Oct 2023 for Transactions in GIS

TransDoubleU-Net: Dual Scale Swin Transformer With Dual Level Decoder for 3D Multimodal Brain Tumor Segmentation

2 rounds from Oct 2023 to Oct 2023 for IEEE Access

FireViT: An Adaptive Lightweight Backbone Network for Fire Detection

Reviewed: Oct 2023 for Forests

Multiscale Feature Fusion Network for Monocular Complex Hand Pose Estimation

Reviewed: Oct 2023 for Electronics Letters

Multi Self-supervised Pre-fine-tuned Transformer Fusion for Better Intelligent Transportation Detection

Reviewed: Oct 2023 for IEEE Intelligent Transportation Systems Magazine

Semantic Face Segmentation Using Convolutional Neural Networks with a Supervised Attention Module

2 rounds from Aug 2023 to Oct 2023 for IEEE Access

Accurately 3D neuron localization using 2D conv-LSTM super-resolution segmentation network

2 rounds from Aug 2023 to Oct 2023 for IET Image Processing

Application of the YOLOv6 Combining CBAM and CloU in Forest Fire and Smoke Detection

Reviewed: Oct 2023 for Forests

A densely connected RL-Unet network for Semantic Segmentation of Synapse multi-organ CT images

Reviewed: Oct 2023 for IET Image Processing

YOLOv7-WFD: A Novel Convolutional Neural Network Model for Helmet Detection in High-Risk Workplaces

3 rounds from Aug 2023 to Oct 2023 for IEEE Access

EU-Net: Efficient Dense Skip-Connected Autoencoder for Medical Image Segmentation

Reviewed: Sep 2023 for IEEE Access

YOLO-Class: Detection and Classification of Aircraft Targets in Satellite Remote Sensing Images Based on YOLO-Extract

Reviewed: Sep 2023 for IEEE Access

Detecting Anomalies in System Logs With a Compact Convolutional Transformer

Reviewed: Sep 2023 for IEEE Access

Learning Dynamic Spatial-temporal Dependence in Traffic Forecasting

Reviewed: Sep 2023 for IEEE Access

FCOSR: A Simple Anchor-Free Rotated Detector for Aerial Object Detection

Reviewed: Sep 2023 for Remote Sensing

Reconstruction-Comparison Deep Learning for Defect Detection in Small-Batch Electronics

Reviewed: Sep 2023 for IEEE Transactions on Computational Imaging

Adaptive Weighted Feature Fusion for Multiscale Atrous Convolution Based 1DCNN with Dilated LSTM-aided Fake News Detection Using Regional Language Text Information

Reviewed: Sep 2023 for Expert Systems

Complex Natural Resonance-Based Chipless RFID Multi-Tag Detection Using One-Dimensional Convolutional Neural Networks

Reviewed: Sep 2023 for IEEE Access

High spatial resolution remote sensing image building hierarchy extraction based on superpixels

Reviewed: Sep 2023 for International Journal of Image and Data Fusion

Semantic segmentation of remote sensing images combined with attention mechanism and feature enhancement U-Net

2 rounds from Jul 2023 to Sep 2023 for International Journal of Remote Sensing

Highly Reliable Robust Mining of Educational Data Features in Universities Based on Dynamic Semantic Memory Networks

Reviewed: Sep 2023 for IEEE Transactions on Big Data

Few-shot segmentation for esophageal OCT images based on self-supervised vision transformer

Reviewed: Sep 2023 for International Journal of Imaging Systems and Technology

A Robust Lightweight Network for Pedestrian Detection Based on YOLOv5-x

Reviewed: Aug 2023 for Applied Sciences

Research on Unsupervised Abnormal Sound Detection Based on Auto-encoder Model

Reviewed: Aug 2023 for IET Communications

A Novel Dense Generative Net Based on Satellite Remote Sensing Images for Vehicle Classification

Reviewed: Aug 2023 for IEEE Transactions on Intelligent Transportation Systems

Fast PCB defect detection method based on FasterNet backbone network and CBAM attention mechanism integrated with feature fusion module in improved YOLOv7

Reviewed: Aug 2023 for IEEE Access

Yolo-ARIA: Multi-Scale Convolutional Neural Networks for Detecting and Classification Vehicles

Reviewed: Aug 2023 for IEEE Access

Study on Improving Semantic Segmentation Using Gradient Information and High-Pass Filter

Reviewed: Aug 2023 for IEEE Access

Transformer-based Integrated Framework for Joint Accelerated MRI Reconstruction and Segmentation

Reviewed: Aug 2023 for IEEE Access

Robust Visual-based Ego-lane Estimation in Urban Environment : Datasets and Algorithms

Reviewed: Aug 2023 for IET Intelligent Transport Systems

Decomposing and Coupling Saliency Map for Lesion Segmentation in Ultrasound Images

Reviewed: Aug 2023 for IEEE Transactions on Medical Imaging

CoupleUNet: Swin Transformer coupling CNNs makes strong contextual encoders for VHR image road extraction

2 rounds from Jul 2023 to Aug 2023 for International Journal of Remote Sensing

Multimodal Deep Learning-based Feature Fusion for Object Detection in Remote Sensing Images

Reviewed: Aug 2023 for IEEE Intelligent Systems

A NOVEL WATER LEVEL RECOGNITION METHOD IN COMPLEX SCENES

Reviewed: Aug 2023 for River

A Segment-Aware Contrastive Learning Approach to Improved Action Segmentation

Reviewed: Aug 2023 for IEEE Access

Geometry-preserving Perceptual Feature Selection for Categorizing LR Aerial Photographs

Reviewed: Aug 2023 for IEEE Access

Hybrid Cross-Feature Interaction Attention Module for Object Detection in Intelligent Mobile Scenes

Reviewed: Aug 2023 for Remote Sensing

CrackTinyNet: A Novel Deep Learning Model Specifically Designed for Superior Performance in Tiny Road Surface Crack Detection

Reviewed: Aug 2023 for IET Intelligent Transport Systems

STransU2Net: Transformer based hybrid model for building segmentation in detailed satellite imagery

Reviewed: Aug 2023 for Plos One

Enhancing Tunnel Crack Detection using Mixed Stride Convolution and Attention Mechanism

Reviewed: Aug 2023 for IET Image Processing

DuckSegformer: A segmentation model based on the AnYue Hemp Duck Dataset

Reviewed: Jul 2023 for IET Image Processing

Night construction site detection based on ghost-YOLOX

Reviewed: Jul 2023 for Connection Science

Smoke Detection of Marine Engine Room Based on CWC-YOLOv5s Model

Reviewed: Jul 2023 for Journal of Marine Science and Engineering

Illuminating the darkness: A pyramid-based approach with lightness attention and noise suppression

Reviewed: Jul 2023 for Electronics Letters

Deep object segmentation and classification networks for building damage detection using the xBD dataset

Reviewed: Jul 2023 for International Journal of Digital Earth

IMG2HEIGHT: height estimation from single remote sensing image using a deep convolutional encoder-decoder network

2 rounds from Apr 2023 to Jul 2023 for International Journal of Remote Sensing

Optimal trained ensemble of classification model for satellite image classification

Reviewed: Jul 2023 for International Journal of Remote Sensing

SegHR: A Semantic Segmentation Model Combining Transformer and CNN for High-Resolution Input Remote Sensing Image

Reviewed: Jul 2023 for International Journal of Digital Earth

DSH-Net: A Dual-Segmentation Head Perception Network Focusing on Traffic Pavement Information

Reviewed: Jul 2023 for IEEE Transactions on Intelligent Vehicles

MDSNet: A Multiscale Decoupled Supervision Network for Semantic Segmentation of Remote-Sensing Images

2 rounds from May 2023 to Jul 2023 for International Journal of Digital Earth

Dense Connected Edge Feature Enhancement Network for Building Edge Detection from High Resolution Remote Sensing Imagery

Reviewed: Jul 2023 for Canadian Journal of Remote Sensing

ABANet: Attention boundary-aware network for image segmentation

Reviewed: Jun 2023 for Expert Systems

Improvement and application of Unet network for avoiding the effect of urban dense high-rise buildings and other feature shadows on water body extraction

2 rounds from May 2023 to Jun 2023 for International Journal of Remote Sensing

Target detection of high-resolution remote sensing images based on convolutional neural network with salient features

Reviewed: Jun 2023 for Canadian Journal of Remote Sensing

Bidirectional Mutual Guidance Transformer for Salient Object Detection in Optical Remote Sensing Images

2 rounds from Mar 2023 to Jun 2023 for International Journal of Remote Sensing

Multi-class segmentation of navel orange surface defects based on improved DeepLabv3+

Reviewed: Jun 2023 for Journal of Agricultural Engineering

PET: Parameter-efficient Knowledge Distillation on Transformer

2 rounds from Mar 2023 to Jun 2023 for Plos One

Robust Joint RGB-D Camera Pose Estimation using Adaptive Feature Selection

Reviewed: Jun 2023 for Electronics Letters

SiamixFormer: a fully-transformer Siamese network with temporal Fusion for accurate building detection and change detection in bi-temporal remote sensing images

3 rounds from Feb 2023 to Jun 2023 for International Journal of Remote Sensing

Class-Guidance network based on Pyramid Vision Transformer for efficient Semantic segmentation of high-resolution remote sensing images

Reviewed: Jun 2023 for International Journal of Remote Sensing

A Dual Phase Approach for Addressing Class Imbalance in Land-use and Land-cover Mapping from Remotely Sensed Images

2 rounds from Mar 2023 to May 2023 for International Journal of Remote Sensing

Remote Sensing Building Damage Assessment with Multi-head Neighbourhood Attention Transformer

4 rounds from Nov 2022 to May 2023 for International Journal of Remote Sensing

Dcsnn: Pre/post Flooding Classification of Landsat 8 Oli Images of Florida in Usa with Low Time Complexity

Reviewed: May 2023 for Land Degradation & Development

Multimodal fusion semantic segmentation of remote sensing image based on Transformer

Reviewed: May 2023 for IET Image Processing

A Dual-Ways Feature Fusion Mechanism Enhancing Active Learning Based on TextCNN

Reviewed: Apr 2023 for Plos One

Medical Aid Diagnosis System Based on Progressive Multilayer Pooling Transformer

Reviewed: Apr 2023 for IEEE Transactions on Medical Imaging

Deep hierarchical transformer for change detection in high-resolution remote sensing images

Reviewed: Mar 2023 for European Journal of Remote Sensing

An object detection model for power line inspection using Transformer and convolutional neural networks

Reviewed: Mar 2023 for CSEE Journal of Power and Energy Systems

The Fused Image Harmonisation Method in Integrated Sensing, Communication, and Computation System

Reviewed: Mar 2023 for IET Signal Processing

MSCNet: Multi-scale Cascaded Network for Semantic Segmentation of High-Resolution Remote Sensing Images

Reviewed: Mar 2023 for Canadian Journal of Remote Sensing

MFDS-GI: Multi-scale Feature Depth-supervised Network using Global Semantic Information for Remote Sensing Change Detection

Reviewed: Feb 2023 for International Journal of Digital Earth

Combustion State Identification of Municipal Solid Waste Incineration Process Based on Vision Transformer and Improved Deep Forest Classification

Reviewed: Feb 2023 for IEEE Transactions on Automation Science and Engineering

Spatial-specific Transformer with involution for semantic segmentation of high-resolution remote sensing images

3 rounds from Oct 2022 to Feb 2023 for International Journal of Remote Sensing

Embedding Swin Transformer Block Context Aggregation Network for Remote Sensing Image Semantic Segmentation

Reviewed: Feb 2023 for IET Image Processing

Parallel matters: Efficient polyp segmentation with parallel structured feature augmentation modules

2 rounds from Oct 2022 to Feb 2023 for IET Image Processing

DeepCloudNet: A Convolutional Neural Network for Cloud Image Segmentation

2 rounds from Sep 2022 to Feb 2023 for Plos One

LaneTD: Lane Feature Aggregator Base on Transformer and Dilated Convolution

3 rounds from Sep 2022 to Jan 2023 for IEEE Sensors Journal

An efficient change detection method for disaster-affected buildings based on a lightweight residual block in high-resolution remote sensing images

Reviewed: Jan 2023 for International Journal of Remote Sensing

IS-Net: Automatic Ischemic Stroke Lesion Segmentation on CT Images

2 rounds from Sep 2022 to Jan 2023 for IEEE Transactions on Radiation and Plasma Medical Sciences

HEAT: Incorporating hierarchical enhanced attention transformation into urban road detection

2 rounds from Nov 2022 to Jan 2023 for IET Intelligent Transport Systems

Sensitivity Analysis of Parameters of U-Net Model for Semantic Segmentation of Silt Storage Dams from Remote Sensing Images

2 rounds from Sep 2022 to Jan 2023 for Canadian Journal of Remote Sensing

GCN-based multi-scale dual fusion for remote sensing building change detection

2 rounds from Oct 2022 to Dec 2022 for International Journal of Remote Sensing

BCD-Net: building change detection based on fully scale connected U-Net and subpixel convolution

Reviewed: Dec 2022 for International Journal of Remote Sensing

PDFFormer: Efficient Vision Transformer for Photovoltaic Defects Detection

Reviewed: Dec 2022 for IEEE Transactions on Industrial Informatics

Semantic segmentation for remote sensing images based on an AD-HRNet model

2 rounds from Oct 2022 to Dec 2022 for International Journal of Digital Earth

Attention-aware spatio-temporal learning for multi-view gait-based age estimation and gender classification

2 rounds from Sep 2022 to Nov 2022 for IET Computer Vision

RSCDNet: A Robust Deep Learning Architecture for Change Detection From Bi-Temporal High Resolution Remote Sensing Images

5 rounds from Aug 2021 to Nov 2022 for IEEE Transactions on Emerging Topics in Computational Intelligence

Deeply supervised vestibule segmentation network for CT images with global context-aware pyramid feature extraction

2 rounds from Aug 2022 to Nov 2022 for IET Image Processing

Multi-view short-term photovoltaic power prediction combining satellite images feature learning and graph mutual information feature representation

2 rounds from Aug 2022 to Nov 2022 for IET Computer Vision

Small insulator target detection based on multi-feature fusion

Reviewed: Nov 2022 for IET Image Processing

ARE-DRNNST: Adaptive Road Extraction Based on Deep ResNet Model Using Nonlinear Structure Tensors for the Intelligent Transportation Systems

Reviewed: Nov 2022 for IEEE Transactions on Intelligent Transportation Systems

Ultra-Lightweight Spatial-Spectral Feature Cooperation Network for Change Detection in Remote Sensing Images

Reviewed: Oct 2022 for IEEE Transactions on Neural Networks and Learning Systems

FPGA-oriented lightweight multi-modal free-space detection network

Reviewed: Oct 2022 for Connection Science

Multiscale depthwise separable convolution based network for high-resolution image segmentation

2 rounds from Sep 2022 to Oct 2022 for International Journal of Remote Sensing

Object detection method for offshore aquaculture based on improved YOLOv5

Reviewed: Oct 2022 for IET Image Processing

Video frame interpolation via residual blocks and feature pyramid networks

3 rounds from May 2022 to Oct 2022 for IET Image Processing

A Semantic Segmentation Network for Remote Sensing Images Based on Dual-Path Supervision and Attention Filtering

Reviewed: Oct 2022 for Geocarto International

RAFF-Net: An improved tongue segmentation algorithm based on residual attention network and multiscale feature fusion

2 rounds from Jul 2022 to Oct 2022 for Digital Health

Efficient hand segmentation for rehabilitation tasks using a convolution neural network with attention

Reviewed: Oct 2022 for IEEE Transactions on Neural Systems and Rehabilitation Engineering

NRTR: Neuron Reconstruction with Transformer from 3D Optical Microscopy Images

Reviewed: Oct 2022 for IEEE Transactions on Medical Imaging

An unsupervised multi-focus image fusion method based on Transformer and U-Net

2 rounds from Jun 2022 to Sep 2022 for IET Image Processing

JSH-Net: joint semantic segmentation and height estimation using deep convolutional networks from single high-resolution remote sensing imagery

3 rounds from Jun 2022 to Sep 2022 for International Journal of Remote Sensing

Lane detection based on IBN deep neural network and attention

2 rounds from May 2022 to Sep 2022 for Connection Science

Modified Double U-Net Architecture for Medical Image Segmentation

3 rounds from Apr 2022 to Sep 2022 for IEEE Transactions on Radiation and Plasma Medical Sciences

A Transformer-Based Hierarchical Hybrid Encoder Network for Semantic Segmentation

Reviewed: Sep 2022 for IET Image Processing

Vision Transformer with Convolutional Encoder-Decoder for Hand Gesture Recognition using 24 GHz Doppler Radar

3 rounds from May 2022 to Sep 2022 for IEEE Sensors Letters

A Simple and Effective Cross-modal Dense Cooperative Fusion Network for RGB-D SOD

Reviewed: Aug 2022 for IET Computer Vision

An Efficient Encoder-Decoder Network for the Capacitated Vehicle Routing Problem

2 rounds from May 2022 to Aug 2022 for IEEE Transactions on Industrial Informatics

A cross-channel multi-scale gated fusion network for recognizing construction and demolition waste from high-resolution remote sensing images

2 rounds from Jul 2022 to Aug 2022 for International Journal of Remote Sensing

Extraction of High Voltage Transmission Line using Pixel-Wise Segmentation from UAV Images

Reviewed: Aug 2022 for IET Image Processing

Edge-enhanced efficient network for remote sensing image super-resolution
2 rounds from May 2022 to Aug 2022 for International Journal of Remote Sensing

Self-Supervised Pretraining Based on Noise-Free Motion Reconstruction and Semantic-Aware Contrastive Learning for Human Motion Prediction
Reviewed: Jul 2022 for IEEE Transactions on Emerging Topics in Computational Intelligence

Deep Mutual Learning for Semantic Segmentation with the Fusion Network
Reviewed: Jul 2022 for IEEE Intelligent Systems

Adaptive Context Exploration Network for Polyp Segmentation in Colonoscopy Images
Reviewed: Jul 2022 for IEEE Transactions on Emerging Topics in Computational Intelligence

Image Processing Technology-based Environmental Foreign Object Feature Detection Algorithm
Reviewed: Jul 2022 for Connection Science

Recognition of fatigue and severe sliding wear particles using a CNN model with multi-scale feature extractor
2 rounds from May 2022 to Jul 2022 for Industrial Lubrication and Tribology

Vector data partition correction method supported by deep learning
2 rounds from Dec 2021 to Jun 2022 for International Journal of Remote Sensing

A Discriminative Channel Diversification based Gastrointestinal Disease Classification using Endoscopic Images
Reviewed: Jun 2022 for The Imaging Science Journal

Grsnet: gated residual supervision network for pixel-wise building segmentation in remote sensing imagery
2 rounds from Mar 2022 to Jun 2022 for International Journal of Remote Sensing

Semantic Segmentation using EfficientNet-based UNet: Improving Class Imbalance Issue in Remote Sensing Images
Reviewed: Jun 2022 for International Journal of Remote Sensing

Riparian Strip Characterization in Agricultural Environments Using Multi-View Deep Convolutional Networks (MVDCNN) and Satellite Images
Reviewed: Jun 2022 for Canadian Journal of Remote Sensing

Vision Transformer with Reversed Order Residual Blocks and Multi-Layer Perceptron Mixer for Image-based Diagnostic Solution
Reviewed: Jun 2022 for IEEE Transactions on Emerging Topics in Computational Intelligence

Improvement of Medical Image Segmentation Based on Deep Learning Using Multi-Scale Feature Extractor Block
Reviewed: Jun 2022 for Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization

Construction of index system of children and youth sports environment characteristics assessment based on BiLSTM model
Reviewed: May 2022 for Connection Science

RBorderNet: Rider Border Collie Optimization-based Deep Convolutional Neural Network for road scene segmentation and road intersection classification
Reviewed: May 2022 for Expert Systems

A Hybrid CNN-Transformer Architecture for Image and Video Parental Control
Reviewed: May 2022 for IEEE Transactions on Consumer Electronics

Characteristics Based Fire Detection System Under the Effect of Electric Fields With Improved Yolo-v4 and ViBe

Reviewed: May 2022 for The Journal of Engineering

Semi-automatic Road Extraction from High Resolution Satellite Images by Template Matching Using Kullback–Leibler Divergence as a Similarity Measure

Reviewed: Apr 2022 for International Journal of Image and Data Fusion

An Attention Encoder-Decoder Network Based on Generative Adversarial Network for Remote Sensing Image Dehazing

2 rounds from Feb 2022 to Apr 2022 for IEEE Sensors Journal

Introduction

Reviewed: Mar 2022 for Computational Intelligence

End-to-End Large-Scale Image Retrieval Network with Convolution and Vision Transformers

Reviewed: Mar 2022 for IET Computer Vision

A Convolutional Encoder-Decoder for Channel Frequency Response synthetization from Calibrated Echo Response in G.fast

Reviewed: Mar 2022 for IEEE Network Magazine

Multi-scale translation method from SAR to optical remote sensing images

2 rounds from Feb 2022 to Mar 2022 for International Journal of Remote Sensing

GCN-Geo: A Graph Convolution Network-based Fine-grained IP Geolocation Framework

Reviewed: Mar 2022 for IEEE Transactions on Network Science and Engineering

Informal Settlement Extraction from High resolution Remotely Sensed Images using MShMSiMP-DC-CNN Hybrid Framework

Reviewed: Mar 2022 for Transactions in GIS

Field road segmentation network based on PraNet

2 rounds from Nov 2021 to Mar 2022 for Journal of Spatial Science

CloudRaednet: residual attention-based encoder-decoder network for ground-based cloud images segmentation in nychthemeron

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Deep Learning Enabled Road Segmentation and Edge-centerline Extraction from High-resolution Remote Sensing Images

Reviewed: Mar 2022 for Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization

Vision-Based Power Line Segmentation With an Attention Fusion Network

Reviewed: Feb 2022 for IEEE Sensors Journal

Recognizing construction and demolition waste using attention boosted convolutional neural networks

Reviewed: Feb 2022 for International Journal of Remote Sensing

Automated Road Extraction from Remotely Sensed Imagery using ConnectNet

Reviewed: Jan 2022 for IETE Journal of Research

A Self-Attentive Hybrid Coding Network for 3D Change Detection in High-Resolution Optical Stereo Images

Reviewed: Jan 2022 for International Journal of Remote Sensing

A2-FPN for Semantic Segmentation of Fine-Resolution Remotely Sensed Images

3 rounds from Nov 2021 to Jan 2022 for International Journal of Remote Sensing

Dual Pre-trained Encoder-decoder Architecture with Effective Receptive Fields for Road Segmentation

Reviewed: Dec 2021 for IETE Technical Review

Land type authenticity check of vector patches using a self-trained deep learning model

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Improvement of Medical Image Segmentation Based on Deep Learning Using Multi-Scale Feature Extractor Block

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Semantic Segmentation of High-Resolution Remote Sensing Images Using Multiscale Skip Connection Network

3 rounds from Jul 2021 to Dec 2021 for IEEE Sensors Journal

Multiscale Recognition of Building Rooftops from High Spatial Resolution Remote Sensing Imagery

Reviewed: Nov 2021 for International Journal of Remote Sensing

Multiscale residual fusion network for image denoising

2 rounds from Sep 2021 to Nov 2021 for IET Image Processing

GPCNet: Global-context Pyramidal and Class-balanced Network for High-Resolution SAR Image Classification

Reviewed: Nov 2021 for Remote Sensing Letters

Gradient convolutional neural network for classification of agricultural fields with contour levee

2 rounds from Aug 2021 to Oct 2021 for International Journal of Remote Sensing

Semantic reasoning model based on deep fusion matching network

2 rounds from Sep 2021 to Sep 2021 for IEEE Access

GH-DeeplabV3+: Greenland Climate-High Resolution-DeeplabV3+ for Semantic Segmentation of Road HAO FANG

Reviewed: Sep 2021 for IEEE Access

Sea ice detection from SSMI data based on improved U-Net convolution neural network

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Road Extraction from Vague Aerial Images By Maximum Between-classes Cross Entropy and Improved Retinex with Fractional Differential

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Exploring RAU-net for semantic segmentation of Philippines satellite images in identification of building density

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Exponentially-Krill Herd Algorithm-Based Hybrid Deep Architecture for Semantic Image Segmentation

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Extraction of Landslide Information and Analysis Using Remote Sensing Technology

Reviewed: Sep 2021 for IEEE Access

Learning Multi-granularity Neural Network Encoding Image Classification Using DCNNs for Easter Africa Community Countries MUSABE Jean Bosco¹, Wang Guoyin¹

Reviewed: Sep 2021 for IEEE Access

Semantic segmentation for remote sensing images via dense feature extraction and companion loss neural network

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Detection of plane in remote sensing images using super-resolution

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Stereo Matching Method of Fusion Features

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High resolution representation-based Siamese network for remote sensing image change detection

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Road Extraction From High Resolution Remote Sensing Image via a Deep Residual and Pyramid Network

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NAS-HRIS: Automatic Design Neural Network for Semantic Segmentation in High-Resolution Remote Sensing Images

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