

ดร.ธีรพงศ์ ปานบุญยืน

Teerapong Panboonyuen, Ph.D.

Head of AI at Motor AI Recognition Solution, **PostDoc Fellow** at Chula

teerapong.panboonyuen@gmail.com | teerapong.pa@chula.ac.th

All about me: <https://kaopanboonyuen.github.io>

งานวิจัยที่สนใจ

Computer Vision and Pattern Recognition; Large Language Models (LLMs)

การศึกษา

นักวิจัยหลังปริญญาเอกด้าน AI เพื่อความเข้าใจภาพถ่ายดาวเทียม	2022 - ปัจจุบัน
จุฬาลงกรณ์มหาวิทยาลัย (สังกัด: ภาควิชาวิศวกรรมสำรวจ)	
นักวิจัยหลังปริญญาเอกด้าน AI	2021 - 2022
จุฬาลงกรณ์มหาวิทยาลัย (สังกัด: ภาควิชาวิศวกรรมคอมพิวเตอร์)	
ปริญญาเอก วิศวกรรมคอมพิวเตอร์	2017 - 2020
จุฬาลงกรณ์มหาวิทยาลัย (เกรดเฉลี่ย: 4.00/4.00)	
ปริญญาโท วิศวกรรมคอมพิวเตอร์	2015 - 2016
จุฬาลงกรณ์มหาวิทยาลัย (เกรดเฉลี่ย: 4.00/4.00)	
ปริญญาตรี วิศวกรรมคอมพิวเตอร์	2012 - 2015
พระจอมเกล้าพระนครเหนือ (โควตาเรียนดีเข้าปริญญาตรี)	
โรงเรียนเตรียมวิศวกรรมศาสตร์ (PET21)	2010 - 2012
พระจอมเกล้าพระนครเหนือ (Senior High School, 10th - 12th Grade)	

ประวัติการทำงาน

Head of AI (Senior) — Motor AI Recognition Solution (MARS)	2022 - ปัจจุบัน
อาจารย์พิเศษ — วิทยาลัยการคอมพิวเตอร์ มหาวิทยาลัยขอนแก่น	2023 - ปัจจุบัน
นักวิจัยหลังปริญญาเอก — จุฬาลงกรณ์มหาวิทยาลัย	2021 - ปัจจุบัน
AI Research Scientist (Dept. Manager) — CJ Express and TILDI	2020 - 2021
Graduate Teaching Assistant — จุฬาลงกรณ์มหาวิทยาลัย	2015 - 2022

รางวัล

- 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.)
 - Global Young Scientists Summit (GYSS) Scholarship from Her Royal Highness Princess Maha Chakri Sirindhorn
 - 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)
 - Ratchadapisek Somphot Fund for 2024 Postdoctoral Fellowship, Chulalongkorn University (PostDoc)
 - Reviewer for International Journals/Conferences: More reviews can be found under my WoS ID AAO-4985-2020.
 - 2017 Best Student Paper Award in International Conference on Computing and Information Technology (IC2IT)
 - 2019 Best Young Researcher Paper Award in First International Conference on Smart Technology & Urban Development (STUD)
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TEERAPONG PANBOONYUEN, PH.D.

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teerapong.panboonyuen@gmail.com ◇ teerapong.pa@chula.ac.th

All about me: <https://kaopanboonyuen.github.io>

RESEARCH INTERESTS

- Computer Vision and Pattern Recognition; Large Language Model (LLM); Diffusion Models
- **Tech Toolkit:** Python; PyTorch; TensorFlow; GCP; AWS; GPT; HuggingFace; GenerativeAI; 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 Architectures

Published a research paper in a Tier 1/Q1 journal

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

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

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

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

B.Eng. in Computer Engineering 2012 - 2015
KMUTNB (Merit-based Admission Quota)

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

Pre-Engineering School in Pre-Electrical Engineering (PET21) 2010 - 2012
KMUTNB (Senior High School: 10th - 12th Grade)

PROFESSIONAL EXPERIENCE

Senior Research Scientist — Motor AI Recognition Solution (MARS) Jan 2022 - Present

- Pioneered the development of the **MARS** AI model: **M**ask **A**ttention **R**efinement with **S**equential Quadtree Nodes, showcased at ICIAP 2023 in Udine, Italy, and featured in the conference proceedings.
- Initiate and drive new research projects involving AI model development for tasks such as Image Classification, Object Detection, Instance Segmentation, and Explainable AI (XAI). Focus on creating, reproducing, and validating cutting-edge solutions for the auto insurance sector.
- Facilitate the integration of pre-trained models into production by providing APIs for frontend and backend service teams, enhancing car insurance and garage-related operations.
- Explore and create novel models with potential to challenge and redefine existing design paradigms, drawing from top research databases like CVPR, ICLR, ICCV, ECCV, NeurIPS, and PAMI.
- Architect and deploy advanced deep learning solutions for autonomous systems, making significant contributions to the development of self-driving cars, drones, and robotics.
- Develop innovative Pattern Recognition and NLP frameworks using deep learning techniques, revolutionizing language understanding and generating applications with a transformative impact.
- Lead research efforts in creating and authoring influential papers, actively submitting to high-impact journals and conferences, and contributing to the advancement of AI technologies.

- Deliver lectures in the following courses:
 - **SC310005 Artificial Intelligence and Machine Learning Application:** Covering foundational AI and ML concepts along with their practical applications.
 - **CP020002 Smart Process Management:** Focusing on strategies for optimizing and automating business processes.
 - **SC320002 Business Intelligence:** Teaching techniques for data analysis and decision-making in business contexts.
 - **CP020001 Introduction to Computers and Programming:** Introducing students to computer systems and fundamental programming skills.
- Develop and refine course materials, including syllabi, assignments, and assessments, to ensure a comprehensive educational experience in each subject.
- Contributed to the academic community through the Ministerial Order on the Appointment of Academic Staff (**Order 5907-2566**) and received two Invitation Letters for Special Lecturer Positions (**Orders 660301.26/24844 and 660101.26/13320**).

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.
- Supervisors: Chalermchon Satirapod and Chaityut 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.
- Artificial Intelligence Research Scientist (Department Manager), C.J. Express Group Co., Ltd., Office Silom

Dept. of Computer Engineering — Chulalongkorn University*Sep 2015 - Apr 2022*

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

- I focus on designing deep encoder-decoder networks for semantic segmentation of satellite imagery. My passion is at the intersection of Remote Sensing, Computer Vision, and Machine Learning. Proud member of 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>
- Supervisors: Peerapon Vateekul and Siam Lawawirojwong

Graduate Teaching Assistant — Chulalongkorn University*Sep 2015 - Apr 2022*

Co-taught the annual machine learning course for undergrads and grads.

- Updated the syllabus to feature hands-on Python programming experience.

- 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>)

- Conducted cutting-edge AI research under Siam Lawawirojwong's laboratory.
- Led the development of an automated land-use/land-cover (LULC) classification map production system using deep learning.
- Pioneered a multi-class deep learning approach for LULC classification of LANDSAT-8 satellite images.
- Developed a deep learning-based system for forest fire classification in LANDSAT-8 satellite imagery.

I served as the Head TA for the data science pathway team at Chula MOOC, where I spearheaded Volunteer Teaching in Practical Data Analytics. I utilized RapidMiner and Python to deliver hands-on learning experiences, helping students gain practical skills and knowledge in the field.

AWARDS AND HONORS

- Best Student Paper Award in International Conference on Computing and Information Technology 2017
- Best Young Researcher Paper Award in First International Conference on Smart Technology and Urban Development (STUD 2019)
- 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)
- Ratchadapisek Somphot Fund for 2024 Postdoctoral Fellowship, Chulalongkorn University (PostDoc)
- Ratchadapisek Somphot Fund for 2025 Postdoctoral Fellowship, Chulalongkorn University (PostDoc)
- 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 Srisophonphan, 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 *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*
- Invited Reviewer of *IEEE Transactions on Geoscience and Remote Sensing* (Publisher: IEEE)
- Invited Reviewer of *IEEE Transactions on Industrial Informatics* (Publisher: IEEE)
- Invited Reviewer of *IEEE Transactions on Artificial Intelligence* (Publisher: IEEE)
- Invited Reviewer of *IEEE Transactions on Emerging Topics in Computational Intelligence* (Publisher: IEEE)
- Invited Reviewer of *Pattern Recognition* (Publisher: Elsevier)
- Invited Reviewer of *Neurocomputing* (Publisher: Elsevier)
- Invited Reviewer of *Scientific Reports* (Publisher: Nature)
- Invited Reviewer of *Computer Vision and Image Understanding* (Publisher: Elsevier)
- Invited Reviewer of *Remote Sensing* (Publisher: MDPI)
- Invited Reviewer of *PLOS ONE* (Publisher: Public Library of Science)
- Invited Reviewer of *Computers and Geosciences* (Publisher: Elsevier)
- Invited Reviewer of *Forests* (Publisher: MDPI)
- Invited Reviewer of *International Journal of Remote Sensing* (Publisher: Taylor and Francis)
- Invited Reviewer of *IEEE Access* (Publisher: IEEE)
- Invited Reviewer of *International Journal of Image and Data Fusion* (Publisher: Taylor and Francis)
- Invited Reviewer of *International Journal of Distributed Sensor Networks* (Publisher: Hindawi)
- Invited Reviewer of *International Journal of Imaging Systems and Technology* (Publisher: Wiley)

- Invited Reviewer of International Journal of Digital Earth (Publisher: Taylor and Francis)
- Invited Reviewer of International Journal of Pavement Engineering (Publisher: Taylor and Francis)
- Invited Reviewer of International Journal of Food Properties (Publisher: Taylor and Francis)
- Invited Reviewer of IEEE Transactions on Radiation and Plasma Medical Sciences (Publisher: IEEE)
- Invited Reviewer of IEEE Transactions on Vehicular Technology (Publisher: IEEE)
- Invited Reviewer of IEEE Transactions on Human-Machine Systems (Publisher: IEEE)
- Invited Reviewer of IEEE Transactions on Circuits and Systems for Video Technology (Publisher: IEEE)
- Invited Reviewer of IEEE Sensors Journal (Publisher: IEEE)
- Invited Reviewer of IEEE Intelligent Systems (Publisher: IEEE)
- Invited Reviewer of IET Image Processing (Publisher: IET)
- Invited Reviewer of Geo-spatial Information Science (Publisher: Taylor and Francis)
- Invited Reviewer of Sensors (Publisher: MDPI)
- Invited Reviewer of Computational Intelligence and Neuroscience (Publisher: Hindawi)
- Invited Reviewer of Computer Methods in Biomechanics and Biomedical Engineering
- Invited Reviewer of Mathematical Problems in Engineering (Publisher: Hindawi)
- Invited Reviewer of Journal of Spatial Science (Publisher: Taylor and Francis)
- Invited Reviewer of Journal of Healthcare Engineering (Publisher: Hindawi Limited)
- Invited Reviewer of IETE Technical Review (Publisher: IETE)
- Invited Reviewer of IETE Journal of Research (Publisher: IETE)
- Invited Reviewer of Transactions in GIS (Publisher: Wiley-Blackwell)
- Invited Reviewer of Transactions on Network Science and Engineering (Publisher: IEEE)
- Invited Reviewer of Connection Science (Publisher: Taylor and Francis)
- Invited Reviewer of Industrial Lubrication and Tribology (Publisher: Emerald Group Publishing Ltd.)
- Invited Reviewer of Transactions on Consumer Electronics (Publisher: IEEE)
- Invited Reviewer of Imaging Science Journal (Publisher: Maney Publishing)
- Invited Reviewer of Cybernetics and Systems (Publisher: Taylor and Francis)
- Invited Reviewer of Open Geosciences (Publisher: De Gruyter)
- Invited Reviewer of Geocarto International (Publisher: Taylor and Francis)
- Invited Reviewer of Engineering Reports (Publisher: Wiley)
- Invited Reviewer of Journal of Agricultural Engineering (Publisher: Springer)

SKILLS

Computer Languages	Python, Java, Processing, C, R, MATLAB, Golang
Tech Stack	GCP, AWS, Docker-Compose, Streamlit
Software & Tools	Git, RapidMiner Studio, Looker Studio, Tableau, Power BI
Machine Learning Libraries	Pytorch, TensorFlow and Keras, Theano, Pandas, Scikit-Learn
Other Libraries	Hugging Face, Gradio, GDAL, Beautiful Soup and Selenium, Plotly
Model Evaluation	Weights and Biases (WandB), TensorBoard, Streamlit
GitHub	https://github.com/kaopanboonyuen

WHO AM I

©2024 I'm Teerapong Panboonyuen, but you can also call me Kao Panboonyuen or simply Kao.

in Thai: ธีรพงศ์ ปานบุญยืน (เก้า)

Teerapong Panboonyuen

<https://www.webofscience.com/wos/author/rid/AAO-4985-2020>
Web of Science ResearcherID: [AAO-4985-2020](#)
ORCID: 0000-0001-8464-4476

Publication Metrics

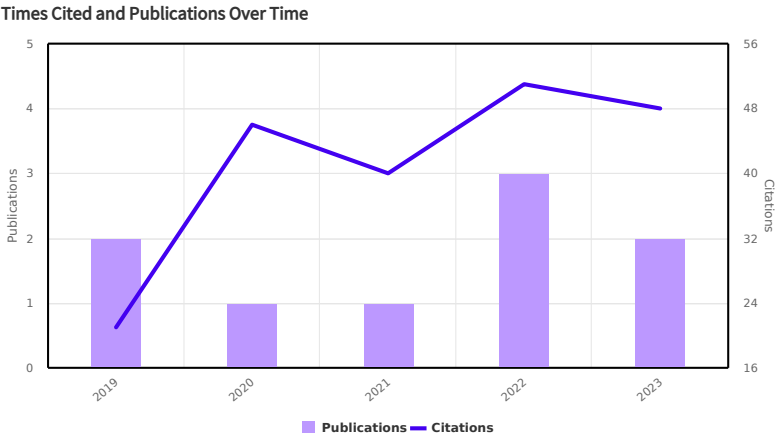
For manuscripts published from date range August 2019 - August 2024

4	66
H-index	Sum of Times Cited
9	8
Total Publications	Web of Science Core Collection Publications

For all time

6	251
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 August 2019 - August 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 August 2019 - August 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	37
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 August 2019 - August 2024 (1)

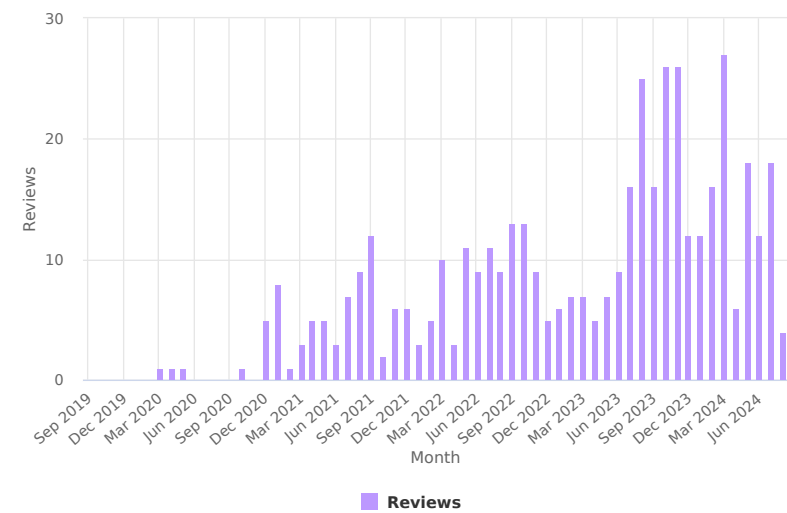
Times Cited
(All time)

MARS: Mask Attention Refinement with Sequential Quadtree Nodes for Car Damage Instance Segmentation
Authors (6): Panboonyuen, Teerapong; Nithisopa, Naphat ... Pornwiriyakul, Naruepon
Published: May 2023
Accession Number: PPRN:68557093

0

Verified Reviews

Review Summary



Reviewer Summary

For manuscripts reviewed from date range August 2019 - August 2024

(80) International Journal of Remote...	(65) IEEE Access
(27) IET Image Processing	(18) IEEE Transactions on Emerging ...
(12) International Journal of Digital ...	(10) IEEE Sensors Journal
(9) Canadian Journal of Remote Sen...	(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) IEEE Transactions on Very Large ...
(5) Nuclear Science and Techniques	(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) IEEE Transactions on Intelligent T...
(4) Geocarto International	(4) IET Intelligent Transport Systems
(3) ACM Transactions on Knowledge ...	(3) International Journal of Pattern R...
(3) IEEE Transactions on Image Proc...	(3) IEEE Transactions on Power Deliv...
(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) Network: Computation in Neural ...
(2) IEEE Intelligent Transportation Sy...	(2) Pest Management Science
(2) IEEE Transactions on Human-Ma...	(2) IEEE Transactions on Big Data
(2) The Imaging Science Journal	(2) IEEE Transactions on Medical Ro...
(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) Agronomy	(1) Machine Intelligence Research
(1) Journal of Medical Engineering a...	(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: ...	(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) 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 Transactions on Computatio...	(1) Applied Sciences
(1) IET Communications	(1) River
(1) Journal of Marine Science and E...	(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) Big Data and Cognitive Computi...
(1) Robotica	(1) Microscopy Research and Techni...
(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...	

452 REVIEWS OF 329 MANUSCRIPTS

For manuscripts published from date range August 2019 - August 2024

A Hybrid Segmentation Algorithm for Rheumatoid Arthritis Diagnosis Using X-Ray Images
Reviewed: Aug 2024 for Big Data and Cognitive Computing

Substation Safety Distance Monitoring Based on Keypoint Detection and Perspective Geometry
Reviewed: Aug 2024 for IEEE Transactions on Power Delivery

An Enhanced Deep Learning Approach for Intelligent Healthcare Emotion Analysis Using Facial Expressions and Feature Analysis to Identify Pain
Reviewed: Aug 2024 for Robotica

OccFaçade: Enabling Precise Building Façade Parsing in Large Urban Scenes with Occlusion
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CellSAM: Advancing Pathologic Image Cell Segmentation via Asymmetric Large-Scale Vision Model Feature Distillation Aggregation Network

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DLB-CNet: Difference Learning-Based Convolution Network for Building Change Detection
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Extraction of crop row navigation lines for soybean seedlings based on calculation of average pixel point coordinates

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AFOcc: Multi-Modal Semantic Occupancy Prediction with Accurate Fusion

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MammoSegNet: A Convolutional Network Analysis for Segmenting Tumor Tissue Masses in Digital Mammograms of Breast Cancer Patients

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

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Defect characterization of x-ray micro-CT images of PBX using CNN and image processing method

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ECG waveform components' delineation utilizing an encoder-decoder architecture and a post-process algorithm

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Image Processing of Signature Verification using Multitask Multi Attention Residual Shrinkage Convolutional Neural Network

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

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

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

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

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

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

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Photoelasticity physical neural network for photoelastic stress field recovery

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

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High Precision Copper Grade Identification Via Vision Transformer with PGNAE Technique

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Attention for semantic segment networks for weed segmentation in lawn

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

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

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

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Chinese Character Recognition based on Swin Transformer-Encoder

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

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

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

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

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

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

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

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

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

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

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Enhancing Satellite View Images using Enhanced Super Resolution GANS

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

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Advancing Segmentation of Ultrasound Images Using Customized Finetuning Strategies

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Star-Transformer based Semantic Enhanced Union Relationship Extraction

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

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

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

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

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

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

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

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

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

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

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

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

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Nested Transformer Decoder using Dense Skip-Connections for Change Detection in High-Resolution Remote Sensing Image

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

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Land Cover Classification in High-Resolution Remote Sensing: Using Swin Transformer Deep Learning with Texture Features

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SeRNet: Segmentation helps Reconstruction for Anomaly Detection

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Automated instance segmentation of asphalt pavement patches based on deep learning
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WFormer: A Transformer-based Soft Fusion Model for Robust Image Watermarking
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Unlocking visual attraction: The subtle relationship between image features and attractiveness
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Recognition of Cardiac Arrhythmia based on Multimodal Data using Extended UNet based Hybrid Bio-inspired Deep Convolution Neural Network
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InvPT++: Inverted Pyramid Multi-Task Transformer for Visual Scene Understanding
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MFE-MVSNet: Multi-scale Feature Enhancement Multi-view Stereo With Bi-directional Connections
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Segmentation method of U-net sheet metal engineering drawing based on CBAM attention mechanism
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HR_BMNet a boundary perception and multiresolution fusion network for semantic segmentation of remote sensing imagery
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Operation Assessment of a Hybrid Distribution Transformer Compensating Voltage and Power Factor Using Predictive Control
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Computer vision classification detection of chicken parts based on optimized Swin-Transformer
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LowDDAWP-Net: Low-resolution Double Deep Audio Waveform Prior Network for Audio Systems Reliability Defence
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Deep learning-based rooftop extraction method for high spatial resolution remote sensing image supported by sample optimization
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ADAC: An Active Domain Adaptive Network with Progressive Learning Strategy for Cloud Detection of Remote Sensing Imagery
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RTPSegNet: a Region to Patch Top-down Pyramid Framework for Semantic Segmentation of Large-format High-resolution Remote Sensing Images
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An Effective Semantic Segmentation Networks with Multi-Path Attention for Industrial Meter Pointer Images
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The System of Preliminary Road Diagnostics Based on Open Remote Sensing and Climatic Data
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Study on visual localization and evaluation of automatic freshwater fish cutting system based on deep learning framework

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GuidNet: A Method for Laser Stripe Extraction under Reflection Interference

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

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Deep hypersphere architectures to anomaly detection in high-dimensional space

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

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Road Detection in High Resolution Aerial Images Using U-Net

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

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Vegetation segmentation using oblique photogrammetry point clouds based on RSPT network

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- A multiscale feature fusion enhanced CNN with the multiscale channel attention mechanism for efficient landslide detection (MS2LandsNet) using medium-resolution remote sensing data
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- Boundary-enhanced dual-stream network for semantic segmentation of high-resolution remote sensing images
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- 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
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- Multi-stream pyramid collaborative network for spectral unmixing
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- SOIF-DN: Preserving Small Object Information Flow with Improved Deep Learning Model
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- Centre-loss - a preferred class verification approach over sample-to-sample in self-checkout products datasets
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- UIE-Convformer: Underwater Image Enhancement Based on Convolution and Feature Fusion Transformer
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- BiSS-YOLOX: Steel Surface Defects Detection Using YOLOX Based on Bi-directional Separable Self-attention and Transfer Learning
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- 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
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- CMPF-UNet: a ConvNeXt multi-scale pyramid fusion U-shaped network for multi-category segmentation of remote sensing images
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- Pine wood nematode disease area identification based on multi-temporal multi-source remote sensing images and BIT model
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Contextual Bands Addition and Multi-Look Inferencing to Improve Semantic Segmentation Model Performance on Satellite Images

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Decomposing and Coupling Saliency Map for Lesion Segmentation in Ultrasound Images

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Geometry-preserving Perceptual Feature Selection for Categorizing LR Aerial Photographs

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

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

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Night construction site detection based on ghost-YOLOX

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

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

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Optimal trained ensemble of classification model for satellite image classification

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

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

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

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

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

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

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ABANet: Attention boundary-aware network for image segmentation

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

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

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

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

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

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

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

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

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

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Multimodal fusion semantic segmentation of remote sensing image based on Transformer

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

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

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Medical Aid Diagnosis System Based on Progressive Multilayer Pooling Transformer

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

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

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

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

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

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

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

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

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

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DeepCloudNet: A Convolutional Neural Network for Cloud Image Segmentation

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LaneTD: Lane Feature Aggregator Base on Transformer and Dilated Convolution

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

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

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HEAT: Incorporating hierarchical enhanced attention transformation into urban road detection
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Sensitivity Analysis of Parameters of U-Net Model for Semantic Segmentation of Silt Storage Dams from Remote Sensing Images
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GCN-based multi-scale dual fusion for remote sensing building change detection
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BCD-Net: building change detection based on fully scale connected U-Net and subpixel convolution
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PDFormer: Efficient Vision Transformer for Photovoltaic Defects Detection
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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

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

Reviewed: Oct 2022 for Geocarto International

Video frame interpolation via residual blocks and feature pyramid networks

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

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

Lane detection based on IBN deep neural network and attention

2 rounds from May 2022 to Sep 2022 for Connection Science

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

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

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 Transformer-Based Hierarchical Hybrid Encoder Network for Semantic Segmentation

Reviewed: Sep 2022 for IET Image Processing

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

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

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

2 rounds from Nov 2021 to Dec 2021 for International Journal of Remote Sensing

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

Reviewed: Dec 2021 for International Journal of Imaging Systems and Technology

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

3 rounds from Aug 2021 to Sep 2021 for Remote Sensing Letters

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

Reviewed: Sep 2021 for International Journal of Distributed Sensor Networks

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

2 rounds from Jul 2021 to Sep 2021 for International Journal of Remote Sensing

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

Reviewed: Sep 2021 for International Journal of Remote Sensing

Attention Mechanism Cloud Detection With Modified FCN for Infrared Remote Sensing Images

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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

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

Detection of plane in remote sensing images using super-resolution

Reviewed: Aug 2021 for IEEE Access

Stereo Matching Method of Fusion Features

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An Improved Deeplabv3+ Urban Road Semantic Segmentation Algorithm with Multiple Loss Constraints

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

Reviewed: Aug 2021 for IEEE Access

Learning Multi-Granularity Neural Network Encoding Image Classification Using DCNNs for Easter Africa Community Countries

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Multi Dimension Attention U-Net For Building Extraction From Remote Sensing Image

Reviewed: Jul 2021 for IEEE Access

GH-deeplabV3+: Greenland Climate-High Resolution-DeeplabV3+ for Semantic Segmentation of Road

Reviewed: Jul 2021 for IEEE Access

Remote Sensing Ore-prospecting Using the Improved Computer Vision Methodology in the Northern Altun Mountain,China

Reviewed: Jul 2021 for IEEE Access

Automated Assessment of Thalassemia from Haemoglobin Electrophoresis Images Using Convolutional Neural Network

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Development of a deep wavelet pyramid scene parsing semantic segmentation network for scene perception in indoor environments

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Detection of environment damage along road based on convolutional neural networks

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Advancements in satellite image classification : methodologies, techniques, approaches and applications

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

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Sea ice detection based on improved U-Net convolutional neural network

Reviewed: May 2021 for Remote Sensing Letters

Two Extended Versions of the UNet Network for Multi-object Segmentation from Aerial Imagery

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Road Extraction from a High Spatial Resolution Remote Sensing Image Based on Multi-task Key Point Constraints

2 rounds from Jan 2021 to Apr 2021 for IEEE Access

Improved Convolutional Neural Network Based on U-Net Structure for semantic segmentation of Multispectral remote sensing Imagery

Reviewed: Apr 2021 for IEEE Transactions on Geoscience and Remote Sensing

LR-RoadNet: A long-range context-aware neural network for road extraction via high-resolution remote sensing images

Reviewed: Apr 2021 for IET Image Processing

Improving Road Semantic Segmentation Using Generative Adversarial Network (GAN) Approach

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Semantic Segmentation Network of Remote Sensing Images With Dynamic Loss Fusion Strategy

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Multi-Stream Semantics-Guided Dynamic Aggregation Graph Convolution Networks to Extract Overlapping Relations

Reviewed: Feb 2021 for IEEE Access

DBRN: A Deep Convolutional Regression Network for Building Orientation Angle Estimation In High-Resolution Satellite Imagery

2 rounds from Dec 2020 to Jan 2021 for IEEE Access

Duplex Restricted Network With Guided Upsampling for the Semantic Segmentation of Remotely Sensed Images

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Learn to Colorize Panchromatic Imagery for Accurate Building Extraction

Reviewed: Jan 2021 for IEEE Access

3D Reconstruction of Laparoscope Images with Contrastive Learning Methods

Reviewed: Jan 2021 for IEEE Access

Deep High-Resolution Representation Learning for Automated Crack Detection

Reviewed: Jan 2021 for IEEE Access

Automated Assessment of Thalassaemia from Haemoglobin Electrophoresis Images using Convolutional Neural Network

Reviewed: Jan 2021 for IEEE Access

HighRes-MVSNet: A Fast Multi-View Stereo Network for Dense 3D Reconstruction From High-Resolution Images

Reviewed: Dec 2020 for IEEE Access

Unsupervised Urban Building Extraction Based on Information Fusion-oriented Deep Encoder-Decoder Network in Remote Sensing Imagery

Reviewed: Dec 2020 for International Journal of Image and Data Fusion

Duplex Restricted Network with Guided Upsampling for semantic segmentation of Remotely Sensed Images

Reviewed: Dec 2020 for IEEE Access

Dual attention deep fusion semantic segmentation networks of large-scale satellite remote-sensing images

2 rounds from Oct 2020 to Dec 2020 for International Journal of Remote Sensing

A Shore Extraction Method From High-Resolution Images

Reviewed: May 2020 for IEEE Access
