

Article List

Type of Products	Quantity
(1) Peer-reviewed Academic Articles by Thai and Japanese Co-authors (In International Academic Journals) (In Proceedings)	16 (12) (4)
(2) Peer-reviewed Academic Articles by Japanese Authors (In International Academic Journals) (In Proceedings)	22 (14) (8)
Total	38

(1) Peer-reviewed Academic Articles by Thai and Japanese Co-authors (16)

2023, 3 papers
<p>Quality of Life Prediction on Walking Scenes Using Deep Neural Networks and Performance Improvement Using Knowledge Distillation</p> <p>Thanasit Rithanasophon, Kitsaphon Thitisiriwech, Pittipol Kantavat, Boonserm Kijsirikul, Yuji Iwahori, Shinji Fukui, Kazuki Nakamura, and Yoshitsugu Hayashi <i>Electronics</i> 12, no. 13 (July 2, 2023): 2907. https://doi.org/10.3390/electronics12132907</p>
<p>Quality of Life Prediction in Driving Scenes on Thailand Roads Using Information Extraction from Deep Convolutional Neural Networks</p> <p>Kitsaphon Thitisiriwech, Teerapong Panboonyuen, Pittipol Kantavat, Boonserm Kijsirikul, Yuji Iwahori, Shinji Fukui, and Yoshitsugu Hayashi <i>Sustainability</i> 15, no. 3 (February 3, 2023): 2847. https://doi.org/10.3390/su15032847</p>
<p>Exploring the Spatial Effects of Built Environment on Quality of Life Related Transportation by Integrating GIS and Deep Learning Approaches</p> <p>Pawinee Iamtrakul, Sararad Chayphong, Pittipol Kantavat, Yoshitsugu Hayashi, Boonserm Kijsirikul, and Yuji Iwahori <i>Sustainability</i> 15, no. 3 (February 3, 2023): 2785. https://doi.org/10.3390/su15032785</p>
2022, 3 papers
<p>The Bangkok Urbanscapes Dataset for Semantic Urban Scene Understanding Using Enhanced Encoder-Decoder with Atrous Depthwise Separable A1 Convolutional Neural Networks</p> <p>Kitsaphon Thitisiriwech, Teerapong Panboonyuen, Pittipol Kantavat, Yuji Iwahori, and Boonserm Kijsirikul <i>IEEE Access</i> 10 (May 20, 2022): 59327-59349.</p>

<https://doi.org/10.1109/ACCESS.2022.3176712>

Extraction and Calculation of Roadway Area from Satellite Images Using Improved Deep Learning Model and Post-Processing

Varun Yerram, Hiroyuki Takeshita, Yuji Iwahori, Yoshitsugu Hayashi, M. K. Bhuyan, Shinji Fukui, Boonserm Kijirikul, and Aili Wang

Journal of Imaging 8, no. 5 (April 25, 2022): 124.

<https://doi.org/10.3390/jimaging8050124>

Deep Neural Network for Estimating Value of Quality of Life in Driving Scenes

Shinji Fukui, Naoki Watanabe, Yuji Iwahori, Pittipol Kantavat, Boonserm Kijirikul, Hiroyuki Takeshita, Yoshitsugu Hayashi, and Akihiko Okazaki

In *Proceedings of the 11th International Conference on Pattern Recognition Applications and Methods: Volume 1*, 616-62, SciTePress, 2022.

<http://dx.doi.org/10.5220/0010870600003122>

2021, 6 papers

Urban Rail Transit in Bangkok: Chronological Development Review and Impact on Residential Property Value

Varameth Vichiensan, Vasinee Wasuntarasook, Yoshitsugu Hayashi, Masanobu Kii, and Titipakorn Prakayaphun

Sustainability 14, no. 1 (December 28, 2021): 284.

<https://doi.org/10.3390/su14010284>

Impact of Decentralization and Rail Network Extension on Future Traffic in the Bangkok Metropolitan Region

Masanobu Kii, Varameth Vichiensan, Carlos Llorca, Ana Moreno, Rolf Moeckel, and Yoshitsugu Hayashi

Sustainability 13, no. 23 (November 29, 2021): 13196.

<https://doi.org/10.3390/su132313196>

COVID-19 Countermeasures and Passengers' Confidence of Urban Rail Travel in Bangkok

Varameth Vichiensan, Yoshitsugu Hayashi, and Sudarat Kamnerdsap

Sustainability 13, no. 16 (August 20, 2021): 9377.

<https://doi.org/10.3390/su13169377>

Walkability Perception in Asian Cities: A Comparative Study in Bangkok and Nagoya

Varameth Vichiensan, and Kazuki Nakamura

Sustainability 13, no. 12 (June 16, 2021): 6825.

<https://doi.org/10.3390/su13126825>

Assessment of Spatiotemporal Peak Shift of Intra-Urban Transportation Taking a Case in Bangkok, Thailand

Masanobu Kii, Yuki Goda, Varameth Vichiensan, Hiroyuki Miyazaki, and Rolf Moeckel

Sustainability 13, no. 12 (June 15, 2021): 6777.

<https://doi.org/10.3390/su13126777>

Can Space-Time Shifting of Activities and Travels Mitigate Hyper-Congestion in an Emerging Megacity, Bangkok? Effects on Quality of Life and CO2 Emission

Witsarut Achariyaviriya, Yoshitsugu Hayashi, Hiroyuki Takeshita, Masanobu Kii, Varameth Vichiensan, and Thanaruk Theeramunkong

Sustainability 13, no. 12 (June 8, 2021): 6547.

<https://doi.org/10.3390/su13126547>

2020, 3 papers

A Grid-Based Spatial Analysis for Detecting Supply-Demand Gaps of Public Transports: A Case Study of the Bangkok Metropolitan Region

Apantri Peungnumesai, Hiroyuki Miyazaki, Apichon Witayangkurn, and Sohee Minsun Kim

Sustainability 12, no. 24 (December 11, 2020): 10382.

<https://doi.org/10.3390/su122410382>

Automatic Construction of Dataset with Automatic Annotation for Object Detection

Naoki Watanabe, Shinji Fukui, Yuji Iwahori, Yoshitsugu Hayashi, Witsarut Achariyaviriya, and Boonserm Kijssirikul

In *Procedia Computer Science: Knowledge-Based and Intelligent Information & Engineering Systems: Proceedings of the 24th International Conference KES2020: Volume 176*, 1763-1772, Elsevier, 2020.

<https://doi.org/10.1016/j.procs.2020.09.215>

Interdependent Multi-task Learning for Simultaneous Segmentation and Detection

Mahesh Reginthala, Yuji Iwahori, M. K. Bhuyan, Yoshitsugu Hayashi, Witsarut Achariyaviriya, and Boonserm Kijssirikul

In *Proceedings of 9th International Conference on Pattern Recognition Applications and Methods-ICPRAM: Volume 1*, 167-174, SciTePress, 2020.

<https://doi.org/10.5220/0008949501670174>

2019, 1 paper**A Method of Data Augmentation for Classifying Road Damage Considering Influence on Classification Accuracy**

Haruki Tsuchiya, Shinji Fukui, Yuji Iwahori, Yoshitsugu Hayashi, Witsarut Achariaviria, and Boonserm Kijsirikul

In *Procedia Computer Science: Knowledge-Based and Intelligent Information & Engineering Systems: Proceedings of the 23rd International Conference KES2019 Volume 159*, 1449-1458, Elsevier, 2019.

<https://doi.org/10.1016/j.procs.2019.09.315>

(2) Peer-reviewed Academic Articles by Japanese Authors (22)**2023, 1 paper****Estimating Urban Spatial Structure Based on Remote Sensing Data**

Masanobu Kii, Tetsuya Tamaki, Tatsuya Suzuki, and Atsuko Nonomura
Scientific Reports 13 (May 31, 2023): 8804.

<https://doi.org/10.1038/s41598-023-36082-8>

2022, 1 paper**The Relationship Between Walkability and QOL Outcomes in Residential Evaluation**

Kazuki Nakamura

Cities 131 (October 4, 2022): 104008.

<https://doi.org/10.1016/j.cities.2022.104008>

2021, 3 papers**Digital Earth: A Platform for the SDGs and Green Transformation at the Global and Local Level, Employing Essential SDGs Variables**

Hiromichi Fukui, Duc Chuc Man, and Ahn Phan

Big Earth Data 5, no. 4 (August 28, 2021): 476-496.

<https://doi.org/10.1080/20964471.2021.1948677>

Street Design for Hedonistic Sustainability Through AI and Human Co-Operative Evaluation

Kanyou Sou, Hiroya Shiokawa, Kento Yoh, and Kenji Doi

Sustainability 13, no. 16 (August 13, 2021): 9066.

<https://doi.org/10.3390/su13169066>

Projecting Future Populations of Urban Agglomerations Around the World and Through the 21st Century

Masanobu Kii

npj Urban Sustainability 1 (February 23, 2021): 10.

<https://doi.org/10.1038/s42949-020-00007-5>

2020, 11 papers

Experimental Analysis of Walkability Evaluation Using Virtual Reality Application

Kazuki Nakamura

Environment and Planning B: Urban Analytics and City Science 48, no.8 (December 21, 2020): 2481–2496.

<https://doi.org/10.1177/2399808320980747>

Normalization of VIIRS DNB Images for Improved Estimation of Socioeconomic Indicators

Chuc Man Duc, Tsubasa Hirakawa, and Hiromichi Fukui

International Journal of Digital Earth 14, no. 5 (November 28, 2020): 540-554.

<https://doi.org/10.1080/17538947.2020.1849438>

Correction of Seasonal Effects on VIIRS DNB Monthly Composites by Using Stable Lit Data and Regression Convolutional Neural Network

Chuc Man Duc, Tsubasa Hirakawa, and Hiromichi Fukui

In *Proceedings of IGRASS 2020-2020 IEEE International Geoscience and Remote Sensing Symposium*, 1508-1511, IEEE, 2020.

<https://doi.org/10.1109/IGARSS39084.2020.9323163>

Reductions in CO2 Emissions from Passenger Cars Under Demography and Technology Scenarios in Japan by 2050

Masanobu Kii

Sustainability 12, no. 17 (August 25, 2020): ID 6919.

<https://doi.org/10.3390/su12176919>

Quick and Low-Cost High Resolution Remote Sensing Using UAV and Aircraft to Address Initial Stage of Disaster Response

Satoru Sugita, Hiromichi Fukui, Hiroshi Inoue, Y Asahi, and Yuichi Furuse

In *IOP Conference Series: Earth and Environmental Science* 509, 012054, IOP Publishing, 2020.

<https://doi.org/10.1088/1755-1315/509/1/012054>

Electricity Demand Monitoring in Japan by Using Time-Series DMSP Stable Lights Images and Its Application to Long- Term Damage Assessment of Natural Disasters

Chuc Man Duc, and Hiromichi Fukui

In *IOP Conference Series: Earth and Environmental Science* 509, 012017, IOP

<p>Publishing, 2020. https://doi.org/10.1088/1755-1315/509/1/012017</p>
<p>An International Collaboration Towards Transformed Engineering Practice in Digital Earth C Desha, S Caldera, H Fukui, and S Yasumoto In <i>IOP Conference Series: Earth and Environmental Science</i> 509, 012013, IOP Publishing, 2020. https://doi.org/10.1088/1755-1315/509/1/012013</p>
<p>Innovation Journey of the Digital Earth Node (DEN): Experiences, Ideas and Future Opportunities C Desha, L Perez-Mora, S Caldera, H Fukui, and C Naidoo In <i>IOP Conference Series: Earth and Environmental Science</i> 509, 012012, IOP Publishing, 2020. https://doi.org/10.1088/1755-1315/509/1/012012</p>
<p>Estimation of Transport Demand Using Satellite Image: Case Study of Chiang Mai, Thailand Masanobu Kii, Nopadon Kronprasert, and Boonsong Satayopas <i>International Journal of GEOMATE</i> 18, no. 69 (May 20, 2020): 111-117. https://doi.org/10.21660/2020.69.9304</p>
<p>Earthquake Risk and Inter-Temporal Fairness: An Economic Assessment of the National Land-Use Structure Masanobu Kii, and Kenji Doi <i>Transport Policy</i> 87 (March 2020): 77-83. https://doi.org/10.1016/j.tranpol.2018.08.009</p>
<p>A Method for Vehicle Detection in High-Resolution Satellite Images That Uses a Region-Based Object Detector and Unsupervised Domain Adaptation Yohei Koga, Hiroyuki Miyazaki, and Ryosuke Shibasaki <i>Remote Sensing</i> 12, no. 3 (February 9, 2020): 575. https://doi.org/10.3390/rs12030575</p>
<p>2019, 6 papers</p>
<p>Estimation of CO2 Emission from Passenger Cars and Its Factor Decomposition: Case Study for Tokyo Metropolitan Area and Kagawa Prefecture Masanobu KII <i>Journal of the Eastern Asia Society for Transport Studies</i> 13, (December 31,</p>

2019): 1261-1272.

<https://doi.org/10.11175/easts.13.1261>

Understanding the Impact of Urban Form Attributes on Household Vehicle Ownership and Choice in Metro Manila: Modelling, Simulation, and Application

Monorom Rith, Raymund Paolo Abad, Alexis Fillone, and Kenji Doi

Engineering and Applied Science Research 46, no. 3 (June 11, 2019): 238-247.

<https://ph01.tci-thaijo.org/index.php/easr/article/view/184437/150115>

A Comparative Assessment Between the Simultaneous and Sequential Maximum Likelihood Estimation Approaches for the Frank Copula-Based Joint Model of Vehicle Type Ownership and Usage in Metro Manila

Monorom Rith, Alexis Fillone, Kenji Doi, Hiroto Inoi, and Jose Bienvenido M.RITBIONA

Journal of the Eastern Asia Society for Transportation Studies 13, (December 31, 2019): 861-876.

<https://doi.org/10.11175/easts.13.861>

R Programming Language Written for Estimation of the Integrated Multinomial Logit-Linear Regression Model Based on a Copula Approach: A Technical Article

Monorom Rith, Fengqi Liu, Pai-Hsien Hung, Kento Yoh, Alexis M. Fillone, and Jose Bienvenido M. Biona

In *Proceedings of the Eastern Asia Society for Transportation Studies* 12, Article Number 39, EASTS, 2019.

<http://www.easts.info/on-line/proceedings/vol.12/pdf/PP2285.pdf>

Variability in Behavior Regularities of Bus Users Based on Long-Term Smart Card Data Analysis

Pai-Hsien HUNG, Kenji DOI, Hiroto INOI, Yu-Chun CHANG, and Monorom RITH

In *Proceedings of the Eastern Asia Society for Transportation Studies* 12, Article Number 73, EASTS, 2019.

<http://www.easts.info/on-line/proceedings/vol.12/pdf/PP2300.pdf>

Study on the Feasibility of Cross Sector Cooperation Approach Towards Road Traffic Safety

Murungi Elizabeth MWEBESA, Kento YOH, Hiroto INOI, and Kenji DOI

In *Proceedings of the Eastern Asia Society for Transportation Studies* 12, Article Number 128, EASTS, 2019.

<http://www.easts.info/on-line/proceedings/vol.12/pdf/PP2525.pdf>