



Denaro, Lino Garda

Postdoct at NTU-Taiwan  
Researcher at BRIN-Indonesia

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Interests

- Remote Sensing
- Atmospheric Correction
- Change Detection Analysis
- Artificial Intelligence
- Convolution Neural Network

Overall Skills

Programming:

- MATLAB
- Python
- C#, CSS

Tools:

- OpenCV
- TensorFlow
- Keras

Remote Sensing Tools:

- ENVI, SNAP
- BEAM VISAT
- Arc MAP
- QGIS

Other Tools:

- LaTeX
- AutoDesk Map
- 3D Modelling
- 2D Modelling

Lino Garda Denaro, B.Eng., M.S., Ph.D.

Professional Experience

- Mar, 2024 – Present  
Assoc. Researcher  
Research Center for Geoinformatics  
National Research and Innovation Agency (BRIN)  
Bandung, Indonesia
- Jul, 2022 – Present  
Postdoctoral Fellow  
Department of Geography  
National Taiwan University (NTU)  
Taipei, Taiwan
- Feb, 2018 – Feb, 2022  
Student Research Assistant  
Geo-Artificial Intelligence Laboratory  
Department of Geomatics  
National Cheng Kung University (NCKU)  
Tainan, Taiwan
- Feb, 2016 – Feb, 2018  
Student Research Assistant  
Digital Geometry Laboratory  
Department of Geomatics  
National Cheng Kung University (NCKU)  
Tainan, Taiwan
- Sep, 2015 – Feb, 2016  
Working in Government Institution  
Mapping and Development  
Department of Development Planning Agency of Surabaya City  
Surabaya, Indonesia

Education

- 2018 – 2022  
Doctor of Philosophy  
Department of Geomatics  
National Cheng Kung University (NCKU)  
GPA: 3.9  
Tainan, Taiwan
- 2016 – 2018  
Master of Science  
Department of Geomatics  
National Cheng Kung University (NCKU)  
GPA: 3.9  
Tainan, Taiwan
- 2011 – 2015  
Bachelor of Engineering  
Department of Geomatics Engineering  
Institute Technology of Sepuluh Nopember (ITS)  
GPA: 3.38  
Surabaya, Indonesia
- 2008 – 2011  
National High School  
Natural Science Class 2  
SMA Negeri 4  
Kediri, Indonesia

Skills

Remote Sensing

- Change Detection Analysis, Land Analysis, Ocean Color (Chl-a, Total Suspended Solid), Air Pollution (PM2.5,10), Ground Water Analysis, Hot-spot Area, Environmental Analysis

Digital Image Processing

- Histogram Processing, Image Filtering (Frequency and Spatial Domains using Fourier Transform), Morphological Image, Restoration and Reconstruction, Image Segmentation, Feature Extraction, and Image Pattern Classification

Programming

- MATLAB, Python (Anaconda, PyCharm, Jupyter, Colab), C#, SQL, R, Java, JavaScript

Machine Learning

- Deep Learning (Dense Neural Network, Convolutional Neural Network), Water-Net, U-Net, Reinforcement Learning, Transfer Learning

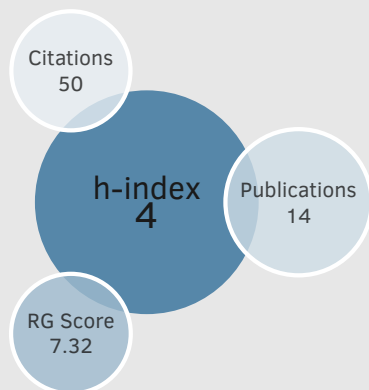
Computer Programs

- Remote Sensing Software (BEAM Visat, SNAP, ENVI, Q-GIS, Arc-Map, etc), Video Editor (Adobe premier Pro), 3D Modelling (PIX 4D Mapper, AutoCAD, Agisoft Photoscan, Australis, Cloud Compare), 2D Design (Corel Draw, Photoshop), Office Applications, LaTeX

## Short Bio

During Lino's studies from 2014 - 2022, He has attended many local and international conferences among countries, such as Korea, Japan, Philippine, Taiwan, and Indonesia. He also has been publishing international papers and still going on. After graduated in Doctoral degree, He continue working as Postdoctoral Fellow in National Taiwan University (NTU) Taiwan.

## Metrics



## Profiles



## Languages

**Indonesian** (Mother Tongue)

**English** (TOEFL ITP:523, 2018)

**Chinese** (Intro. course, 2016-17)

## Personal

Lino was born in Batam, Indonesia. He received the B.Eng. degree in Department of Geomatics Engineering from Institute of Technology Sepuluh Nopember (ITS) Surabaya, Indonesia (2011-2015). Afterward, He got a scholarship in Taiwan to continue studying in the geomatics field for his master's degree (2016-2018) and followed by his doctoral degree (2018-2022). He graduated his Doctoral degree program in February 2022 with 6 papers and 1 paper in the submission process.

## Reviewer

- IEEE - Journal of Selected Topics in Applied Earth Observations and Remote Sensing
- IEEE - Transaction on Geoscience and Remote Sensing
- IEEE - International Journal of Remote Sensing
- Remote Sensing
- Sustainability

## Guest Lectures

29 October 2023	<b>Guest Lecturer</b> <b>Department of Informatics Engineering</b> <i>University of Pembangunan Nasional (UPN)</i>	Surabaya, Indonesia
May, 2023 – Jun, 2023	<b>Guest Lecturer Kampus Merdeka</b> <b>Department of Biology</b> <i>University of Nusantara PGRI (UNP)</i>	Kediri, Indonesia
Mar. 2022 – Aug. 2022	<b>Guest-Adjunct Lecturer</b> <b>Department of Geodesy Engineering</b> <i>Diponegoro University (UNDIP)</i>	Semarang, Indonesia
Sep. 2021 – Feb. 2023	<b>Guest-Adjunct Lecturer</b> <b>Department of Geodesy Engineering</b> <i>Diponegoro University (UNDIP)</i>	Semarang, Indonesia

## Awards & Achievements

2018 – 2022	Ph.D Distinguished Scholarship - NCKU, Taiwan
2018 – 2022	Ministry of Science and Technology (MOST) Scholarship, Taiwan
2019	Invited Speaker of PhilGeos Conference, Philippine
2017	Best Presenter of International Conferences of Indonesian Society for Remote Sensing (ICOIRS), Indonesia
2016 – 2018	M.Sc Distinguished Scholarship - NCKU, Taiwan
2016 – 2018	Ministry of Science and Technology (MOST) Scholarship, Taiwan
2015	Analyst Surveyor License (Indonesian Surveyors Association)
2013 – 2015	Van Deventer-Maas Scholarship (VDMS)

## Organizations

2019 – 2020	Secretary of Dewan Perwakilan Mahasiswa, PPI Taiwan
2018 – 2019	Department of Foreign Affair, PPI Tainan
2017 – 2018	Head Department Islamic Study of MSA, NCKU Taiwan
2016 – 2017	Head Department Islamic Study of MSA, NCKU Taiwan
2014 – 2015	Supervisor at Kost Quran SDM-IPTEK, Surabaya Indonesia
2012 – 2014	Department of Ristek FTSP ITS, Surabaya Indonesia

# Publications

May, 2024      **International Journal of Applied Earth Observation and Geoinformation**  
*Reconstructing fresh green leaf spectra in the SWIR-2 region (2001–2500 nm) collected in a humid environment by referring to publicly available green leaf spectral databases*

Feb, 2020      **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**  
*Hybrid canonical correlation analysis and regression for radiometric normalization of cross-sensor satellite imagery*

Jul, 2019      **IGARSS 2019- IEEE International Geoscience and Remote Sensing Symposium**  
*Nonlinear relative radiometric normalization for Landsat 7 and Landsat 8 imagery*

Mar, 2019      **IEEE Geoscience and Remote Sensing Letters**  
*Pseudoinvariant feature selection using multitemporal MAD for optical satellite images*

Feb, 2019      **The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences**  
*Hybrid Canonical Correlation Analysis and Regression for Radiometric Normalization of Cross-Sensor Satellite Images*

Nov, 2019      **ISPRS Journal of Photogrammetry and Remote Sensing**  
*Spectral-consistent relative radiometric normalization for multitemporal Landsat 8 imagery*

Aug, 2018      **Journal of Applied Remote Sensing**  
*Pseudoinvariant feature selection for cross-sensor optical satellite images*

# Conferences

21 – 24<sup>th</sup> Nov 2021      Asian Conference on Remote Sensing (ACRS), Vietnam

14 – 15<sup>th</sup> Nov 2019      PhilGeos (GeoAdvences) Paper 1, Philippine

16 – 17<sup>th</sup> Nov 2019      PhilGeos (GeoAdvences) Paper 2, Philippine

14 – 18<sup>th</sup> Oct 2019      Asian Conference on Remote Sensing (ACRS), Korea

17 – 19<sup>th</sup> Apr 2019      International Symposium on Remote Sensing (ISRS), Taiwan

22 – 27<sup>th</sup> Jul 2018      IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Japan

07 – 10<sup>th</sup> Aug 2018      International conference of SG37, Taiwan

31 – 01<sup>th</sup> Oct 2017      International Conference of Indonesia Society for Remote Sensing (ICOIRS), Indonesia

05 – 07<sup>th</sup> Des 2016      International Symposium on GNSS (ISGNSS), Taiwan

12 – 15<sup>th</sup> Jul 2016      International conference of SG36, Taiwan