



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

## Education

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

## 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

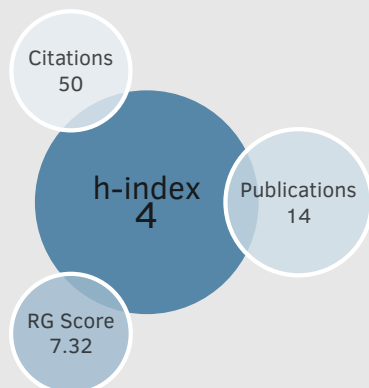
### Machine Learning

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

## 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.

## 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

## 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
- Applied Sciences

## Guest Lectures

04 March 2024	<b>Guest Lecturer</b> <b>Department of Geomatics</b> <i>National Cheng Kung University (NCKU)</i>	Tainan, Taiwan
29 October 2023	<b>Guest Lecturer</b> <b>Department of Informatics Engineering</b> <i>University of Pembangunan Nasional (UPN)</i>	Surabaya, 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	<b>International Journal of Applied Earth Observation and Geoinformation</b> <i>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</i>
Feb, 2020	<b>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</b> <i>Hybrid canonical correlation analysis and regression for radiometric normalization of cross-sensor satellite imagery</i>
Jul, 2019	<b>IGARSS 2019- IEEE International Geoscience and Remote Sensing Symposium</b> <i>Nonlinear relative radiometric normalization for Landsat 7 and Landsat 8 imagery</i>
Mar, 2019	<b>IEEE Geoscience and Remote Sensing Letters</b> <i>Pseudoinvariant feature selection using multitemporal MAD for optical satellite images</i>
Feb, 2019	<b>The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences</b> <i>Hybrid Canonical Correlation Analysis and Regression for Radiometric Normalization of Cross-Sensor Satellite Images</i>
Nov, 2019	<b>ISPRS Journal of Photogrammetry and Remote Sensing</b> <i>Spectral-consistent relative radiometric normalization for multitemporal Landsat 8 imagery</i>
Aug, 2018	<b>Journal of Applied Remote Sensing</b> <i>Pseudoinvariant feature selection for cross-sensor optical satellite images</i>

## Conferences

21 – 24 <sup>th</sup> Nov 2021	Asian Conference on Remote Sensing (ACRS), Vietnam
14 – 15 <sup>th</sup> Nov 2019	PhilGeos (GeoAdvances) Paper 1, Philippine
16 – 17 <sup>th</sup> Nov 2019	PhilGeos (GeoAdvances) 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