



## Denaro, Lino Garda

Postdoctoral Fellow at  
National Taiwan University

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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

- Jul, 2022 – Present **Postdoctoral Fellow** **Department of Geography** *National Taiwan University (NTU)* Taipei, Taiwan
- Feb, 2018 – Feb, 2022 **Student Research Assistant** **Department of Geomatics** *Geo-Artificial Intelligence Laboratory* *National Cheng Kung University (NCKU)* Tainan, Taiwan
- Feb, 2016 – Feb, 2018 **Student Research Assistant** **Department of Geomatics** *Digital Geometry Laboratory* *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
- May, 2014 – Sep, 2014 **Internship in Department of Remote Sensing** **Remote Sensing and Technology Center** *Lembaga Penerbangan dan Antariksa Nasional (LAPAN)* Jakarta, Indonesia

## Education

- 2018 – 2022 **Doctor of Philosophy** **Department of Geomatics** *National Cheng Kung University (NCKU)* Tainan, Taiwan  
GPA: 3.9
- 2016 – 2018 **Master of Science** **Department of Geomatics** *National Cheng Kung University (NCKU)* Tainan, Taiwan  
GPA: 3.9
- 2011 – 2015 **Bachelor of Engineering** **Department of Geomatics Engineering** *Institute Technology of Sepuluh Nopember (ITS)* Surabaya, Indonesia  
GPA: 3.38
- 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

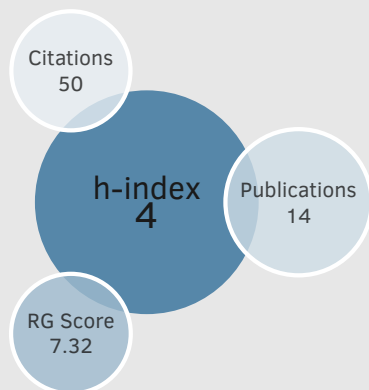
### Computer Programs

- 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

## 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

- 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 (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