

Mr. Rangsak Khamkhon

Asian Institute of Technology (AIT), Thailand.

58 Moo 9 Phaholyothin Highway, Pathumthani 12120, Thailand.

Phone: +669 5494 6554, Email: Rangsak.khamkhon@gmail.com

PROFILE

- Date of birth: 25 December 1996
- Gender: Male
- Nationality: Thai

EDUCATION

- 2015 – 2019 [Bachelor of Science, B.Sc.]
The Development Geography for Resources Management Field of Study (FoS) at Mahasarakham University, Thailand. Senior project: Estimation of Sugarcane Yield using ground data and Sentinel-1 image time series in Kumphawapi district, Udon Thani province, Thailand.
- 2020 – 2022 [Studying Master degree]
The Remote Sensing & Geographic Information Systems (RS&GIS) Field of Study (FoS) at Asian Institute of Technology (AIT). Project: Determination of drought index for sugarcane crop using Potential Evapotranspiration and Global Navigator Satellite System (GNSS) – Precipitable Water Vapor (PWV) data.

WORK EXPERIENCE

- 2019 – 2020 [Research Associate]
Asian Institute of Technology (AIT), Thailand. Project: The Development of Geoinformatics and Precision Agriculture Technology for Administration and Management of oil palm plantations

RESEARCH AREAS (Skill)

- **Image processing**
 - Object detection.
 - Image smoothing.
 - Edge detection.
 - Image filtering.
 - Perspective transformation.
 - Image alignment / registration.
- **Classification model**
 - Random forest classification
- **Data management for geospatial data**
 - PostgreSQL.
 - Geo-server
- **Python programming**
 - Machine learning model
 - Image processing
- **UAV image (flying, planning, processing and Application)**
 - Photogrammetry and surveying
 - Vegetable index estimation
 - Agriculture crop yield estimation
 - Monitoring agriculture health and time series of crop cycle
- **GNSS Technology**
 - GNSS processing data
 - RTK apply with UAV image
- **Geospatial modeling using GIS**
 - analyze spatial relationships
 - patterns of geographic features
 - Mapping

RESEARCH INTEREST

- forecasting Climate Change model
- Remote sensing application for air quality model
- Geospatial modeling for air quality monuments