



Dr. Nur 'Atirah Binti Muhadi
Dept. of Biological and Agricultural Engineering,
Faculty of Engineering, Universiti Putra Malaysia
43400 UPM Serdang, Selangor

E-mail: nuratirah@upm.edu.my
ORCID: orcid.org/0000-0002-1458-636X

Education

1. PhD, Water Resources Engineering, 2022, Universiti Putra Malaysia, Malaysia
2. MSc., Geospatial Engineering, 2018, Universiti Putra Malaysia, Malaysia
3. Bachelor of Biological and Agricultural Engineering, 2015, Universiti Putra Malaysia, Malaysia

Areas of Interest

Geographical Information System (GIS), remote sensing, natural disasters, water resources, deep learning, disaster management

Professional Qualification/ Membership/ Affiliation

1. Graduate Member, Board of Engineers Malaysia (BEM)

Appointments

Position	Duration
1. Senior Lecturer , Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2023 to present
2. Research Assistant , International Institute of Aquaculture and Aquatic Sciences	2022 - 2023
3. Graduate Research Assistant , Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2018 - 2020
4. GIS Data Analyst , Geo Latitude (M) Sdn Bhd Malaysia	2017 - 2018
5. Graduate Research Assistant , Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2015 - 2017

Publications

Journals

1. NA Muhadi, AF Abdullah, SK Bejo, MR Mahadi and A Mijic (2021), Deep learning semantic segmentation for water level estimation using surveillance camera, Applied Sciences (Switzerland), Volume 11(20), Pages 9691
2. NA Muhadi, AF Abdullah, SK Bejo, MR Mahadi and A Mijic (2020), The use of LiDAR-derived DEM in flood applications: A review, Remote Sensing, Volume 12(14), Pages 2308
3. NA Muhadi, AF Abdullah, SK Bejo, MR Mahadi and A Mijic (2020), Image segmentation methods for flood monitoring system, Water (Switzerland), Volume 12(6), Page 1825
4. MM Ali, NA Muhadi, N Hashim, AF Abdullah and MR Mahadi (2020), Pulp and paper production from oil palm empty fruit bunches: A current direction in Malaysia, Journal of Agricultural and Food Engineering, Volume 2, Pages 1-9
5. Muhadi, N. A., Mohd Kassim, M. S., & Abdullah, A. F. (2019). Improvement of Digital Elevation Model (DEM) using data fusion technique for oil palm replanting phase. International Journal of Image and Data Fusion, 10(3), 232-243.
6. Ali M. M., Bachik N. A., Muhadi N. A., Yusof T. N. T., & Gomes C. (2019). Non-Destructive Techniques of Detecting Plant Diseases: A Review. Physiological and Molecular Plant Pathology, 101426.
7. NA Muhadi, AF Abdullah, and MS Mohd Kassim (2018), Improvement of Digital Elevation Model (DEM) using Data Fusion Technique for Oil Palm Replanting Phase (2018), International Journal of Image and Data Fusion, Online, Pages 1-12.

Conference Proceedings

1. NA Muhadi, AF Abdullah, SK Bejo, MR Mahadi and A Mijic (2022), Water level fluctuation using surveillance camera, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, Volume 46 (4/W3-2021), Pages 257-260
2. NA Muhadi, AF Abdullah and Z Vojinovic (2017), Estimating Agricultural Losses using Flood Modelling for Rural Area, MATEC Web of Conferences, Volume 103, 04009
3. NA Muhadi, AF Abdullah and MSM Kassim (2016), Quantification of Terrestrial Laser Scanner (TLS) Elevation Accuracy in Oil Palm Plantation for IFSAR Improvement, IOP Conference Series: Earth and Environmental Science, Volume 37 (1), 012042.
4. AF Abdullah and NA Muhadi (2015) GIS Data Collection for Oil Palm (DaCOP) Mobile Application for Smart Phone, ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Copernicus GmbH, Volume 2 (2), Page 165
5. N.A. Muhadi, AF Abdullah and (2015), Flood Damage Assessment in Agricultural Area in Selangor River Basin, PAWEES-INWEPF Joint International Conference 2015, Malaysia

Chapter in Books

NA Muhadi, AF Abdullah and NZ Muhammad Zahir (2020), Estimating Flood Losses in Oil Palm Plantation Using Flood Modeling, Water Resources Development and Management, Springer Nature Singapore Pte Ltd 2020

Professional Services/Consultation

No	Role	Title	Year
1.	Technical Committee	The Technical Forum Series on Postmortem of The December 2021 Floods: Focus on The Role of Geospatial and Remote Sensing in Disaster Preparedness and Prevention	2022
2.	Member of Scientific Secretariat	The 5th International Conference on Agricultural and Food Engineering (CAFEi2020)	2021
3.	Member of Technical Secretariat	The 5th International Conference on Agricultural and Food Engineering (CAFEi2020)	2021
4.	Project member (Consultation)	SME To part finance the construction, testing & commissioning and operation of the proposed 25.8MW AC Sungai Pelus– Sungai Yum mini hydro project	2020
5.	Project member (Consultation)	SME to undertake to part finance The Development Malaysia Space 4.0	2019
6.	Project member (Consultation)	SME to undertake Evaluation and Review the Technical Aspect of the Development of New 10,000MT Woodfree Pulp and Paper Project at Green Technology Park Pekan, Pahang	2019
7.	Project member (Consultation)	SME to undertake the plant audit for a solar power plant	2019