Lin Min Min Myint
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EDUCATION

Ph.D., Information Technology, *Shinawatra University, Thailand.*
M.Eng, Telecommunications, *Asian Institute of Technology, Thailand*
B.Eng, Electronics, *Assumption University, Thailand*.

RESEARCH INTERESTS

- Global navigation satellite system (GNSS) positioning and navigation
- Space Weather Study (particularly Equatorial Ionospheric Irregularities) and their impacts
- Signal Processing, Machine Learning and Artificial Intelligence

Research PROJECTS

- Study of Equatorial Plasma Bubble in Low-Latitude Region and Its Applications (Oct. 2021 – Sept. 2024)
- Precise positioning and AI for Ionospheric Disturbances in Low-Latitude Region in ASEAN (Apr. 2023 – Mar. 2025)
- GNSS and Ionospheric Data Products for Disaster Prevention and Aviation in Low-Latitude Regions – Phase II (Apr. 2021 – Sept. 2023)
- GNSS and Ionospheric Data Products for Disaster Prevention and Aviation in Low-Latitude Regions – Phase I (Apr. 2019 – Mar. 2021)
- Equatorial Plasma Bubble Detection and Improvement on Precise Positioning and Aeronautical Navigation Technology in Thailand

Programming SKILLS

- Programming: C/C++, JAVA, MATLAB, Python, R, Scilab, LABVIEW

PUBLICATIONS

1. J. Budtho, P. Supnithi, N. Siansawasdi, S. Saito, A. Saekow and **L. Myint**, "Ground Facility Error Analysis and GBAS Performance Evaluation around Suvarnabhumi Airport, Thailand," in IEEE Transactions on Aerospace and Electronic Systems, doi: 10.1109/TAES.2023.3326134.
2. P. C Thu, P. Supnithi, J. Budtho, A. Saekow, T. Sopon, K. Hozumi, and **L. Myint**, "Instrumental Receiver Bias Estimation for Ionospheric Total Electron Content by Neural Network Model", ECTI-EEC, vol. 21, no. 3, p. 251470 , Oct. 2023. doi: 10.37936/ecti-eec.2023213.251470

3. K. Seechai, **L. Myint**, K. Hozumi, M. Nishioka, S. Saito, M. Yamamoto, and P. Supnithi, "Simultaneous equatorial plasma bubble observation using amplitude scintillations from GNSS and LEO satellites in low-latitude region," Earth, Planets and Space, vol 75, no. 1, Aug. 2023. doi: 10.1186/s40623-023-01877-6

4. T. Thanakulketsarat, P. Supnithi, **L. Myint**, K. Hozumi, and M. Nishioka, "Classification of the equatorial plasma bubbles using convolutional neural network and support vector machine techniques," Earth, Planets and Space, vol 75, no. 1, Aug. 2023. doi: 10.1186/s40623-023-01903-7

5. P. Thammavongsy, P. Supnithi, **L. Myint**, and K. Hozumi, "Equatorial spread-F forecasting model with local factors using the long short-term memory network," Earth, Planets and Space, vol 75, no. 1, Aug. 2023. doi: 10.1186/s40623-023-01868-7

6. A. Bumrungkit, P. Supnithi, S. Saito, and **L. Myint**, "A study of equatorial plasma bubble structure using VHF radar and GNSS scintillations over the low-latitude regions," GPS Solutions, vol 26, no. 4, p. 148, Sept. 2022. doi: 10.1007/s10291-022-01321-4

7. S. Sophan, **L. Myint**, S. Saito, P. Supnithi, " Performance improvement of the GAGAN satellite-based augmentation system based on local ionospheric delay estimation in Thailand," GPS Solutions, vol 26, no. 4, p. 130, Sept. 2022. doi: 10.1007/ s10291-022-01293-5

8. N. Tongkasem, **L. Myint** and P. Supnithi, "Estimation and Validation of Vertical Total Electron Content Using Standalone Single-Frequency Observations," in IEEE Access, vol. 10, pp. 103485-103495, Sept. 2022, doi: 10.1109/ACCESS.2022. 3208102.

9. **L. Myint**, K. Hozumi, S. Saito, P. Supnithi, “Analysis of local geomagnetic index under the influence of equatorial electrojet (EEJ) at the equatorial Phuket geomagnetic station in Thailand,” Advances in Space Research, vol. 70, no. 5, pp.1429-1440, Sept. 2022, doi: 10.1016/j.asr.2022.06.024

10. P. Thammavongsy, P. Supnithi, **L. Myint**, S. Sripathi, and K. Hozumi, “Comparison of observed equatorial spread-F statistics between two longitudinally separated magnetic equatorial stations and the IRI-2016 model during low and high solar activities,” Advances in Space Research, vol. 69, no. 6, pp.2501-2511, Sept. 2022, doi: 10.1016/j.asr.2022.06.024