

Jirapoom Budtho

Ph.D. Electrical Engineering



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Biography	<p>Jirapoom Budtho received the B.E. and M.E. degrees in Telecommunication Engineering and Ph.D. in Electrical Engineering from King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand, in 2015, 2017 and 2023, respectively. He is currently a lecturer with Telecommunication Engineering Department, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, Thailand.</p> <p>His research interests include the ionosphere, GBAS technology, GNSS, and Space Weather Information. He is also a member of Thai GNSS and the Space Weather Information Data Center.</p>
Skills & Abilities	<p>Programming MATLAB, Linux, Unix, Python, shell/bash script</p> <p>Languages Thai, English</p>
Education	
2017 – 2023	Ph.D. – King Mongkut's Institute of Technology Ladkrabang – Thailand Electrical Engineering GPA: 4.00 of 4.00
2015 - 2017	M.E. – King Mongkut's Institute of Technology Ladkrabang – Thailand Telecommunications Engineering GPA: 4.00 of 4.00
2011 - 2015	B.E. – King Mongkut's Institute of Technology Ladkrabang – Thailand Telecommunications Engineering GPA: 3.25 of 4.00 (Second Class Honors)
Publication	Articles
2023	Budtho, J. , Supnithi, P., Siansawasdi, N., Saito, S., Saekow, A., & Myint, L. M. (2023). Ground Facility Error Analysis and GBAS Performance Evaluation around Suvarnabhumi Airport, Thailand. IEEE Transactions on Aerospace and Electronic Systems.
2023	Thu, P. C., Supnithi, P., Budtho, J. , Saekow, A., Sopon, T., Hozumi, K., & Myint, L. M. M. (2023). Instrumental Receiver Bias Estimation for Ionospheric Total Electron Content by Neural Network Model. ECTI Transactions on Electrical Engineering, Electronics, and Communications, 21(3), 251470-251470.

- 2020** **Budtho, J.**, Supnithi, P., & Saito, S. (2020). Single-frequency time-step ionospheric delay gradient estimation at low-latitude stations. *IEEE Access*, 8, 201516-201526.
- 2018** **Budtho, J.**, Supnithi, P., & Saito, S. (2018). Analysis of quiet time vertical ionospheric delay gradients around Suvarnabhumi airport, Thailand. *Radio Science*, 53(9), 1067-1074.
- Conference papers**
- 2023** Thu, P. C., Supnithi, P., Myint, L. M. M., & **Budtho, J.** (2023, September). Effects of Equatorial Plasma Bubbles over Real-Time Kinematic Positioning in Low-Latitude Region. In *Proceedings of the 36th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2023)*
- 2022** Thu, P. C., Supnithi, P., Myint, L. M. M., **Budtho, J.**, Saito, S., Saekow, A., & Siansawasdi, N. (2022, July). Study on Effect of Equatorial Plasma Bubble over Real-Time Kinematic Positioning in Bangkok Thailand. In *2022 37th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC)* (pp. 1-4). IEEE.
- 2021** **Budtho, J.**, Supnithi, P., Saito, S., Siansawasdi, N., & Saekow, A. (2021, November). Multipath Analysis at Low-Latitude GNSS Stations around Suvarnabhumi Airport, Thailand, for GBAS Standards. In *2021 7th International Conference on Space Science and Communication (IconSpace)* (pp. 146-150). IEEE.
- 2020** Jamjareegulgarn, P., Duangsuwan, S., Supnithi, P., **Budtho, J.**, Tangtrakunphaisan, U., Hozumi, K., & Tsugawa, T. (2020, March). Identifying Geomagnetic Storms with Ionospheric Storm Scale for GNSS and Disaster Prevention. In *2020 8th International Electrical Engineering Congress (iEECON)* (pp. 1-4). IEEE.
- 2019** **Budtho, J.**, Supnithi, P., & Saito, S. (2019, October). Single-frequency time-step method for Ionospheric Delay gradient Estimation. In *ENRI Int. Workshop on ATM/CNS. (EIWAC 2019)*.
- 2019** **Budtho, J.**, Supnithi, P., & Saito, S. (2019, June). The improvement of time-step method for ionospheric delay gradient estimation. In *2019 34th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC)* (pp. 1-4). IEEE.
- 2018** **Budtho, J.**, Nilchan, N., Popaichit, N., Ngamprasert, N., Phakphisut, W., & Supnithi, P. (2018, July). The analysis of positioning accuracy from the usage of multi-constellation in single-frequency RTK technique in Bangkok. In *2018 33rd International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC)* (pp. 1-4). IEEE.
- 2017** **Budtho, J.**, Supnithi, P., Saito, S., & Saekow, A. (2017, March). Nominal Ionospheric Delay Gradient Estimation at Suvarnabhumi Airport, Thailand. In *2017 International Electrical Engineering Congress (iEECON)* (pp. 1-5). IEEE.