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Areas of Expertise

GNSS/INS Positioning and Navigation, Space Geodesy, Geodetic Control Network, Dynamic Estimation System, Mathematical Geodesy

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Personal Information

HENDY FITRIAN SUHANDRI
School of Geomatics Science and Natural Resources

Academic Qualifications

- Dr.-Ing. in Geodesy & Geomatics (Specialism of GNSS Attitude Determination System for Kinematic Platform), 2017, Universitaet Stuttgart, Germany
- Master of Science in Geodesy & Geomatics, 2008, Universitaet Stuttgart, Germany
- Bachelor of Engineering in Geodesy & Geomatics, 2006, Institut Teknologi Bandung (ITB), Indonesia

Professional Members

- Malaysia Board of Technologists (MBOT), Member, 2020 – present
- Indonesian Surveyor Associations (ISI), Member, 2022 – present
- International Association of Engineers (IAENG), Member, 2022 - present

Teaching and Learning

- Degree, May 2023, Advanced Geodesy (Lecture), Adjustment Computation (Lecture), Oceanography (Lecture)

Student Supervision

Publications

Book chapters

- Suhandri, H.F., Adil, I., Khalifa, N.A., and Saptari, A.Y. (2021). 'Time Scales And Their Characteristics. In: Road Pavement & Geomatic Application: The Scenario'. Penerbit UTHM, 46, ISBN:9789672817499

Journals

- Cahyadi, M.N., Asfihani, T., Suhandri, H.F., Erfianti, R. (2023) Unscented Kalman Filter for a low-cost GNSS/IMU-based mobile mapping application under demanding conditions. Journal of Geodesy & Geodynamic (Accepted)
- Monir, N., Abdul Rasam, A.R., Ghazali, R., Suhandri, H.F., and Cahyono, A. (2021). 'Address Geocoding Services n Geospatial-Based Epidemiological Analysis: A Comparative Reliability for Domestic Disease Mapping', International Journal of Geoinformatics, Association for Geiinformation technology (AGIT), 10, 156, ISSN:26730014
- Sadikin, H., Widyastuti, R., Saptari, A.Y., Harpiandi, A., Suhandri, H.F., and Khalifa, N.A. (2021.) 'Harnessing Multi Source Point Cloud Technology To Overcome High Resolution Building Information Modeling (Bim) Of Manganti Dam, Indonesia: A Preliminary Result', Jurnal Kejuruteraan, UKM Press
- Gunawan, A.Z.M., Saptari, A.Y., Suhandri, H.F., Khalifa, N.A., and Nizam, K. (2021). 'Literature Study Of Building Verticality Monitoring Analysis Using Gns And Triaxial Tiltmeter Data Integration', Jurnal Kejuruteraan, UKM Press
- Khalifa, N.A., H. F. Suhandri, Alnose. A. A. Hmed, Roslan Zainal Abidin(2020) Organizational And Technological Influence Of Public-Private Partnership (Ppp) In The Construction Industry: Case Study In Malaysia, Journal of Applied Science and Built Environment, UTHM , 12, 1, ISSN:26827476
- Khalifa, N.A., Zulkiple, A., and Suhandri, H.F. (2019). 'Factors Influencing Local Road (Jkr U2/U3) Damage in Malaysia'. Jordan Journal of Civil Engineering, 13(4), pp. 609-622, ISSN:2225157X
- Azis, R.A., Suhandri, H.F., and Wijaya, D.D. (2018). 'Ketelitian Posisi Pengamatan GNSS Metode Precise Point Positioning dan Metode Penentuan Posisi Relatif'. Indonesian Journal of Geospatial, Vol. 5, No.2, pp.1 – 10
- Suhandri, H.F. (2017). 'Implementation of gradient-iterative least squares on estimating the quaternion component for GNSS-based attitude determination'. Journal of Aeronautics, Astronautics and Aviation, Vol. 49, No.1, pp.033 - 040, DOI: 10.6125/17-0118-925. 2015
- Herrera, A. M., Suhandri, H.F., Realini, E., Reguzzoni, M., de Lacy, M.C. (2015). 'goGPS: open-source MATLAB software'. Journal of GPS Solutions, Available online 19 June 2015 (DOI 10.1007/s10291-015-0469-x; ISSN 1080-5370)

Proceeding/Conference

- Pradipta, D., and H. Andreas, and D. A. Sarsito, and H. F. Suhandri. 'The Potency of the Modernized GNSS Signals for Real-Time Kinematic Positioning'. (Proceeding E3S Web of Conferences 94). International Global Navigation Satellite System. Bali, Indonesia, 2018.
- Azis, R. A., and H. F. Suhandri, and D. D Wijaya. 'The Study of Position Accuracy Using Precise Point Positioning (PPP) In Perspective of Indonesian National Standard of Horizontal Reference Network'. (Proceeding E3S Web of Conferences 94). International Global Navigation Satellite System. Bali, Indonesia, 2018.
- Suhandri, H.F., and Nugroho, H. 'An intensive iterative method to solve the Tikhonov-Philips regularization for short timespan GNSS double-difference observation applications'. (Proceeding). Presented Paper at International Symposium on GNSS (ISGNSS). Tainan, Taiwan, 2016.
- Suhandri, H.F. 'Practical Solution of GPS Integer Ambiguity for Attitude Determination'. (Proceeding). ISSN: 2046 – 9051, Vol. 2 edition 1. Presented Paper at Forum Ilmiah Tahunan Ikatan Surveyor Indonesia. Batu - Malang, Indonesia, 2015.
- Suhandri, H.F., and Realini, E. 'Practical Considerations on Partial Ambiguity Resolution for Attitude Determination'. (Proceeding). Presented Paper at The European Navigation Conference. Rotterdam, The Netherland, 2014.
- Suhandri, H. F., and E. Realini. 'Issues of Different Estimation Models for Epoch-By-Epoch Double-Difference GPS Observation Equations'. Presented Paper at The European Navigation Conference. Vienna, Austria, 2013.

Poster

- Herrera H.M., Caldera, S., de Lacy, M.C., Realini, E. and Suhandri, H.F. 'Latest Developments in GoGPS Open-Source Positioning Software'. Poster at The IAG International Scientific Assembly. Potsdam, Germany, 2013.
- Suhandri, H.F., Becker, D. and Kleusberg, A. 'Evaluation of A High-Sensitivity GPS Receiver for Kinematic Application in Regions with High Shading'. Poster at The European Geoscience Union. Vienna, Austria, 2009.

Research Grants and Contracts

- Pengembangan Sistem Penyediaan Informasi Spasial Pada Pemonitoran Struktur Bangunan, Jembatan dan Rel Kereta Api Secara Berkelanjutan Menggunakan Data Multisensor. 2021. (Memeber). Research Grant: Faculty of Earth Science and Technology, ITB.
- Pengembangan Metode Pemetaan 3D untuk Kawasan Cagar Budaya. 2020. (Memeber). Research Grant: Faculty of Earth Science and Technology, ITB.

Consultation & Expertise

Innovation, Commercialization & Entrepreneurial

Services & Administration

Work and Collaboration Experience

Awards & Recognitions

Contribution to Society

Other Activities