

Prof. Dr. Irwan Meilano



Current Position

Since 2020: Dean Faculty of Earth Sciences and Technology (FEST) and Professor in Earthquake Geodesy Institut Teknologi Bandung (ITB)

Email: irwanm@itb.ac.id
Scopus H-Index (June 2022) : 22

Award

1. Best Student Presentation, Geodetic Society of Japan (GSJ), Fall Meeting 2003
2. Award for Contribution to Geophysical Knowledge, Indonesian Association of Geophysicists (HAGI), 2012
3. Award for Development of Geodesy and Geomatics. Indonesian Surveyor Association (ISI), 2014
4. Research Award, Institut Teknologi Bandung (ITB), 2016
5. Indroyono Susilo Award, The Fifth International Conferences of Indonesia Society for Remote Sensing (ICOIRS), 2019

Selected Publication (2020-2023)

1. **The 2021 MW 6.2 Mamuju, West Sulawesi, Indonesia Earthquake: Partial rupture of the Makassar Strait Thrust**, Irwan Meilano, Rino Salman, S. Susilo, H.i Ash Shiddiqi, Pepen Supendi, K. Lythgoe, Cheryl Tay, K. Bradley, S. Rahmadani, S. Kristiyawan, Sang-Ho Yun, *Geophysical Journal International*, <https://doi.org/10.1093/gji/ggac512>, 2023
2. **The 2018 Mw7.5 Palu 'supershear' earthquake ruptures geological fault's multisegment separated by large bends: Results from integrating field measurements, LiDAR, swath bathymetry and seismic-reflection data**: Danny Hilman Natawidjaja, M. R Daryono, G. Prasetya, Udrek, P. L-F Liu, N. D. Hananto, W. Kongko, W. Triyoso, A. R. Puji, Irwan Meilano, E.Gunawan, P. Supendi, A. Pamumpuni, M. Irsyam, L. Faizal, S.Hidayati, B.Sapiie, M. A Kusuma, S. Tawil, *Geophysical Journal International*, 224(2), pp. 985–1002, 2021.
3. **Source Characteristics of the 2019 Mw 6.5 Ambon, Eastern Indonesia, Earthquake Inferred from Seismic and Geodetic Data**; Irwan Meilano, R. Salman, S. Rahmadani, Q. Shi, S. Susilo, E. Lindsey, P. Supendi, D. Daryono; *Seismological Research Letters*; V 92, 4, Agustus 2021.
4. **Rapid Magnitude Estimation Of The August 5, 2018, Lombok Earthquake Using High-Rate GnsS Data**; Irwan Meilano, Susilo Susilo, Dina Sarsito; *International Journal of GEOMATE*; V. 23 No. 98, 2022.
5. **Rapid Estimation of Earthquake Magnitude and Source Parameters using Genetic Algorithms**, Astri Novianty, Irwan Meilano, Carmadi Machbub, Sri Widiyantoro, and Susilo Susilo; *Applied Sciences*; Vol 11, Issue 24, 11852, 2021
6. **Ionospheric Disturbances after the 2022 Hunga Tonga-Hunga Ha'apai Eruption above Indonesia from GNSS-TEC Observations**, Ihsan N. Muafiry, Irwan Meilano, Kosuke Heki, D. D. Wijaya, K. A. Nugraha; *Atmosphere*; 13, Issue 10, 2022
7. **Geodetic observation of strain accumulation in the Banda Arc region**; Suchi Rahmadani, Irwan Meilano, Susilo Susilo, Dina A. Sarsito, Hasanuddin Z. Abidin, Pepen Supendi; *Geomatics, Natural Hazards and Risk*; Volume 13 Issue 1, 2022.
8. **Foreshock–mainshock–aftershock sequence analysis of the 14 January 2021 (Mw 6.2) Mamuju–Majene (West Sulawesi, Indonesia) earthquake**: Pepen Supendi, M. Ramdhan, Priyobudi, D. Sianipar, A. Wibowo, M.T. Gunawan, S. Rohadi, .NF. Riama, Daryono, B. S. Prayitno, J. Murjaya, D. Karnawati, Irwan Meilano, N., S. Widiyantoro, A. D., G. I. Marliyani, K. H. Palgunadi & E. M. Elsera. *Earth, Planets and Space*, 73(1), 106, 2021.
9. **Earthquakes and tsunamis caused by low-angle normal faulting in the Banda Sea, Indonesia**; Phil R Cummins, I. R Pranantyo, J. M Pownmall, J. D Griffin, Irwan Meilano, S. Zhao; *Nature Geoscience*; V13, 4, 312-318, April 2020.
10. **Development of the 2017 national seismic hazard maps of Indonesia**; Masyhur Irsyam, Phil R Cummins, M Asrurifak, L. Faizal, D. H. Natawidjaja, D.H, S. Widiyantoro, Irwan Meilano, W. Triyoso, A. Rudiyanto, S. Hidayati, M Ridwan, N. R. Hanifa, A. J. Syahbana; *Earthquake Spectra*; V 36, 1, 112-136, Sep. 2020.

Academic Employment

- 2010 – now : Chairman of Geodesy WG, National Team for Updating Indonesia Earthquake Hazard Map
- 2011 – 2018 : Research Coordinator, Graduate Research on Earthquake and Active Tectonics (GREAT), ITB - ANU
- 2015 – 2020 : Secretary, Institute for Research and Community Services (LPPM) ITB
- 2018 – 2020 : Chairman, Center of Excellence (CeO) in Earthquake Science and Technology (CEST) ITB

Education

- Bachelor of Geodetic Eng. – Institut Teknologi Bandung
Graduated : 1997
- Master of Science, Earth Science – Nagoya University
Graduated: 2003
- Doctor of Science, Earth Science – Nagoya University
Graduated: 2006