

## SOST Research - 2025

### List of Publications

1. **Singh, Priyatma.**, Linnér, BO. & Singh, A.A. (2025) *Marine spatial planning and ocean governance in Small Island Developing States*. *Reg Environ Change* 25, 91. <https://doi.org/10.1007/s10113-025-02412-x>
2. Shenghui Li 1, Charles I. Addey, Raphaël Roman...**Priyatma Singh**, et al., (2025) Early career ocean professionals declaration on Ocean Negative Carbon Emissions for our ocean and future. *The Innovation*. <https://doi.org/10.1016/j.xinn.2025.101007>
3. Kaikkonen, L., Strand, M., **Singh, Priyatma.**, Shellock, R., Roman, R., Smith, A. J., ... & Singh, D. (2025). Guidelines for ensuring meaningful engagement of early career researchers in scientific collaborations: recommendations from and for marine and polar scientists. *ICES Journal of Marine Science*, 82(8), fsaf143., <https://doi.org/10.1093/icesjms/fsaf143>
4. Singh, D., Aretaake, R., & **Railoa, K.** (2025). Traditional ecological knowledge in Kiribati: Elders' insights on indigenous fishing practices. *Folk, Knowledge, Place*. Advance online publication. <https://doi.org/10.24043/001c.141210>
5. **Ramendra Prasad**, Lency Muna, **Sekove Vodo**, Shivani, Mohammed Riaz Azam, **Dhrishna Charan**, **Ayesha Reddy**, Mohseen Dean, Marissa Asen, Filimoni Yaya, Leba Tamari (2025) *Development of waste management model for small island communities: a case study of Koroipita, Fiji*. *Environmental Science and Pollution Research*. PP 1-15. DOI: <https://doi.org/10.1007/s11356-025-36876-5>
6. Mohammed Diykh, Mumtaz Ali, Mehdi Jamei, **Ramendra Prasad**, Abdulhaleem H Labban, Shahab Abdulla, Niharika Singh, Aitazaz Ahsan Farooque (2025) *Multi-step ahead significant wave height forecasting using global and local view graph representation based on GRU model*. *Ocean Engineering*. Volume 340. PP 122314. DOI: <https://doi.org/10.1016/j.oceaneng.2025.122314>
7. Abhishek Dayal Vinod, **Ramendra Prasad**, **Priyatma Singh**, **Ronald Maharaj**, **Dhrishna Charan** (2025). *Biofuels for decarbonizing land transport sector: A case study on people's perspective and policy in Fiji*. *Renewable Energy*. Volume 240, PP 122156. DOI: <https://doi.org/10.1016/j.renene.2024.122156>

8. Mohammed Diykh, Mumtaz Ali, Abdulhaleem H Labban, **Ramendra Prasad**, Mehdi Jamei, Shahab Abdulla, Aitazaz Ahsan Farooque (2025) *Designing Empirical Fourier Decomposition Reinforced with Multiscale Increment Entropy and Deep Learning to Forecast Dry Bulb Air Temperature*. Results in Engineering. PP 104597. DOI: <https://doi.org/10.1016/j.rineng.2025.104597>
9. **Chand, R.R.**, Sharma, N.A. & Kabir, M.A. Advancing Web Browser Forensics: Critical Evaluation of Emerging Tools and Techniques. *SN COMPUT. SCI.* **6**, 355 (2025). <https://doi.org/10.1007/s42979-025-03921-6>

### Book Chapters

1. Buksh, Z., Sharma, N.A., **Chand, R.**, **Kumar, J.** and Shawkat Ali, A.B.M. (2025). Cybersecurity Challenges in Smart Grid IoT . In IoT for Smart Grid (eds R. Zahira, P. Sivaraman, C. Sharmeela and S. Padmanaban). <https://doi.org/10.1002/9781394279401.ch8>

### Conference Papers

1. **Ayesha Reddy** and **Ramendra Prasad** (2025), *Total Cloud Cover Forecasting Using Machine Learning Models for Smart Grid Applications*. 8th ASEAN Smart Grid Congress (ASGC8). 12 – 13 August 2025, Penang, Malaysia.
2. Kumar, Sumeet S. and **Dayal, Kunal K.** (2025). *Wind Power for Climate Mitigation and Health Resilience in Fiji's Outer Islands*. Pacific Islands Health Research Symposium 2025, Fiji National University, Nasinu, Fiji, 10-12 September 2025.
3. Prasad, Swastika and **Dayal, Kunal K.** (2025). *Meteorological Climate Study at Automatic Weather Station Locations around Fiji in the Recent Decade (2014-2023)*. 2025 Research Symposium on Loss and Damage in Pacific Small Island Developing States, Savusavu, Fiji, 16-18 September 2025.

## Think Articles (Newspaper, Magazine, etc.)

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## Seminars, Webinars and Invited Talks

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## Projects

- 1. National implementation of global goals: Coherence between Nationally Determined Contributions (NDC) and the Sustainable Development Goals (SDG).**  
Funded by Stockholm Environment Institute and Linkoping University, Sweden.  
FJD 90,000  
The project team is finalizing a few verification activities and reconciling the budget for final approval by SEI. The project team will receive the completion letter by the end of this year, following the completion of the acquittal process.
- 2. Transforming Energy Access – Learning Partnership (TEA-LP)**  
Funded by UK Aid and overseen by the Carbon Trust  
£16700.00  
Progress/Update: Through our marketing efforts, we have enrolled 12 students in REM408 this semester. The student enrolment last year was 9 students, while the target set under the project was 6 students. The marketing indeed assisted us in getting more interested students. Dr Ramendra Prasad was supported by the TEA-LP project to present a paper and participate in a Plenary at the 8th ASEAN Smart Grid Congress (ASGC8). 12 – 13 August 2025, Penang, Malaysia.
- 3. Erasmus+ K171 UniPa/ University of Fiji programme.** The EOI has been called by the OREG. The student was interviewed and notified of the outcome. The name has been sent to Palermo University and the student will begin her studies in 2026.