

SOST Publications 2022

List of Publications 2022

1. Feki, Firas, Noamane Taarji, **Sekove Vodo**, Mohamed Chamkha, Zouhaier Bouallagui, Mitsutoshi Nakajima, Hiroko Isoda, Marcos A. Neves, and Sami Sayadi (2022) Physicochemical Stability Enhancement of β -carotene-rich O/W Nanoemulsions using a New Natural Emulsifier Developed from Pistacia lentiscus Fruit Residue. *Food Biophysic*, pp 1-13. Doi: <https://doi.org/10.1007/s11483-022-09766-3> (**Q1; Impact Factor: 3.34**).
2. Leal Filho, W., Lange Salvia, A., Abubakar, I.R., Mifsud, M., Azadi, H., Sharifi, A., LeVasseur, T., Luetz, J.M., Velazquez, L., **Singh, P.** and Pretorius, R., 2022. Impacts of the COVID-19 Pandemic on Routines of Higher Education Institutions: A Global Perspective. *Sustainability*, 14(21), p.14105.
3. Hazar Feizi, Mohammad Taghi Sattari, **Ramendra Prasad** and Halit Apaydin (2022) *Comparative analysis of deep and machine learning approaches for daily carbon monoxide pollutant concentration estimation*. International Journal of Environmental Science and Technology, pp 1-16. Doi: <https://doi.org/10.1007/s13762-022-04702-x> (**Q1; Impact Factor: 2.86; SNIP: 0.895; and 87th percentile**).
4. Nasrin Fathollahzadeh Attar, Mohammad Taghi Sattari, **Ramendra Prasad**, Halit Apaydin (2022) Comprehensive review of solar radiation modeling based on artificial intelligence and optimization techniques: future concerns and considerations. *Clean Technologies and Environmental Policy*, pp 1-19, Doi: <https://doi.org/10.1007/s10098-022-02434-7> (**Q1; Impact Factor: 4.70; SNIP: 1.08; and 90th percentile**).
5. Lionel P Joseph, Erica A Joseph, **Ramendra Prasad** (2022) Explainable diabetes classification using hybrid Bayesian-optimized TabNet architecture. *Computers in Biology and Medicine*, 151 pp 106178. Doi: <https://doi.org/10.1016/j.compbiomed.2022.106178> (**Q1; Impact Factor: 6.69; SNIP: 1.945; and 88th percentile**).
6. Anurag Malik, Mehdi Jamei, Mumtaz Ali, **Ramendra Prasad**, Masoud Karbasi, Zaher Mundher Yaseen (2022). Multi-step daily forecasting of reference evapotranspiration for

different climates of India: A modern multivariate complementary technique reinforced with ridge regression feature selection. *Agricultural Water Management*, 272, pp 10781. Doi: <https://doi.org/10.1016/j.agwat.2022.107812> (**Q1; Impact Factor: 6.611; and 97th percentile**).

7. **Priyatma Singh**, Tabe, T. and Martin, T., (2022). The role of women in community resilience to climate change: A case study of an Indigenous Fijian community. *Women's Studies International Forum* (Vol. 90, p. 102550). DOI: <https://doi.org/10.1016/j.wsif.2021.102550> (**Q1; Impact Factor: 1.497; SNIP: 1.071; and 71st percentile**).
8. Mehdi Jamei, Mumtaz Ali, Anurag Malik, **Ramendra Prasad**, Shahab Abdulla, Zaher Mundher Yaseen (2022) Forecasting Daily Flood Water Level Using Hybrid Advanced Machine Learning Based Time-Varying Filtered Empirical Mode Decomposition Approach. *Water Resources Management*, pp 1-40. Doi: <https://doi.org/10.1007/s11269-022-03270-6> (**Q1; Impact Factor: 6.16; SNIP: 1.345; and 87th percentile**).
9. Ekta Sharma, Ravinesh C.Deo, Jeffrey Soar, **Ramendra Prasad**, Alfio V.Parisi, and Nawin Raj (2022) Novel hybrid deep learning model for satellite based PM10 forecasting in the most polluted Australian hotspots. *Atmospheric Environment*, Vol 279 pp 1-13. Doi: <https://doi.org/10.1016/j.atmosenv.2022.119111> (**Q1; Impact Factor: 4.798**).
10. Mumtaz Ali, Ravinesh C Deo, Yong Xiang, **Ramendra Prasad**, Jianxin Li, Aitazaz Farooque, Zaher Mundher Yaseen (2022) Coupled online sequential extreme learning machine model with ant colony optimization algorithm for wheat yield prediction. *Scientific Reports*, Vol. 12:5488, pp 1-23. Doi: <https://doi.org/10.1038/s41598-022-09482-5> (**Q1; Impact Factor: 6.90; SNIP: 4.337; and 93rd percentile**).
11. Saeed Samadianfard, Fatemeh Mikaeili, and **Ramendra Prasad** (2022) Evaluation of classification and decision trees in predicting daily precipitation occurrences. *Water Supply*, Vol 00 No 0, 1. Doi: <https://doi.org/10.2166/ws.2022.017>
12. Sujan Ghimire, Thong Nguyen-Huy, **Ramendra Prasad**, Ravinesh C Deo, David Casillas-Perez, Sancho Salcedo-Sanz, Binayak Bhandari (2022) Hybrid Convolutional Neural

Network-Multilayer Perceptron Model for Solar Radiation Prediction. *Cognitive Computation*, pp 1-27. Doi: <https://doi.org/10.1007/s12559-022-10070-y> (**Q1; Impact Factor: 5.418; and 89th percentile**).

13. Aurpa, Tanjim Taharat and Rifat, Richita Khandakar and Ahmed, Md Shoaib and Anwar, Md Musfique and Ali, **A. B. M. Shawkat**, (2022) Reading Comprehension Based Question Answering System in Bangla Language with Transformer-Based Learning. *Heliyon*, ELSEVIER. Available at SSRN: <https://ssrn.com/abstract=4119325> or <http://dx.doi.org/10.2139/ssrn.4119325>
14. Gounder, M., Kumar, B., and **Ali, S.**, (2022) The Development of Usability Guidelines: A Systematic Literature Review, *International Journal of Human-Computer Interaction*, Taylor and Francis.
15. Islam, E., Adnan, N., Islam, M. R., and **Ali, S.**, (2022) Cluster-Based Authentication Process in a Smart City, *Security and Communication Networks*, ELSEVIER.
16. Md. Shahidul Islam, Md. Rafiqul Islam and **A B M Shawkat Ali**. (2022) Protein complex prediction in large protein–protein interaction network, *Informatics in Medicine Unlocked*, vol. 30. ELSEVIER.
17. S.M.E.K. Chowdhury, Mohammad Forkan, Shams Forruque Ahmed, Praveen Agarwal, **A B M Shawkat Ali**, S.M. Muyeen, (2022) Modeling the SARS-CoV-2 parallel transmission dynamics: Asymptomatic and symptomatic pathways, *Computers in Biology and Medicine*, ELSEVIER.
18. **Prasad, A.**, Chaudhary, K. & Sharma, B. Programming skills: Visualization, interaction, home language and problem solving. *Educ Inf Technol* 27, 3197–3223 (2022). <https://doi.org/10.1007/s10639-021-10692-z>

Policy Brief

1. Selene Pena, Maria Ermida, **Danian Singh**, Kaja Fjaertoft, Elle Wibisono and Jay Gietzelt, (2022), *Youth Calls for a Deep-Sea Mining Moratorium: A Global Youth Study*. Publisher: Sustainable Ocean Alliance.

Think Tank Articles

1. Melanie Pill, and **Priyatma Singh**, (2022) Debt cancellation: no quick fix to climate funding crunch. 360 info. <https://360info.org/debt-cancellation-no-quick-fix-to-climate-funding-crunch/>
2. **Ramendra Prasad** (2022) A Roadmap for India's Climate Cooperation with Pacific Small Island Developing States. *ORF: Observer Research Foundation*. <https://policycommons.net/artifacts/2484729/a-roadmap-for-indias-climate-cooperation-with-pacific-small-island-developing-states/3507155/>

Conference/Workshop Presentations

1. **Ramendra Prasad** (2022) *Clean Energy Status and Prospects in Fiji and the Oceania Region*. Clean Energy Ministerial-Regional and Global Energy Interconnection Initiative Webinar, 25th - 26th May 2022.
2. **Priyatma Singh** (2022) - *Nordic Environmental Social Science Conference (NESS)*, University of Gothenburg, June 7-9 Gothenburg, Sweden
3. **Priyatma Singh** (2022) - *The Politics and Governance of Climate Change Loss and Damage Global Environmental Politics* Special Issue Workshop June 16-17, University College London, UK