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PUBLICATION SUMMARY

- 5 Journal publications, 7 publications in Conferences
- Google Scholar: 159 Citations, 5 h-index, 4 i10-index

JOURNAL PUBLICATIONS

1. A. B. Shyam, S. R. Sahoo and S. Anand, "Voltage Regulation and Load Sharing in DC Microgrid Using Single Variable Global Average Estimation," in *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, vol. 5, no. 2, pp. 336-345, April 2024, doi: [10.1109/JESTIE.2023.3317800](https://doi.org/10.1109/JESTIE.2023.3317800)
2. A. Das, A. Shukla, A. B. Shyam, S. Anand, J. M. Guerreo and S. R. Sahoo, "A Distributed-Controlled Harmonic Virtual Impedance Loop for AC Microgrids," in *IEEE Transactions on Industrial Electronics*, vol. 68, no. 5, pp. 3949-3961, May 2021, doi: [10.1109/TIE.2020.2987290](https://doi.org/10.1109/TIE.2020.2987290)
3. A. B. Shyam, S. Anand and S. R. Sahoo, "Effect of Communication Delay on Consensus-Based Secondary Controllers in DC Microgrid," in *IEEE Transactions on Industrial Electronics*, vol. 68, no. 4, pp. 3202-3212, April 2021, doi: [10.1109/TIE.2020.2978719](https://doi.org/10.1109/TIE.2020.2978719)
4. A. Ingle, A. B. Shyam, S. R. Sahoo and S. Anand, "Quality-Index Based Distributed Secondary Controller for a Low-Voltage DC Microgrid," in *IEEE Transactions on Industrial Electronics*, vol. 65, no. 9, pp. 7004-7014, Sept. 2018, doi: [10.1109/TIE.2018.2795524](https://doi.org/10.1109/TIE.2018.2795524)
5. Islam, S., Agarwal, S., Shyam, A. B., Ingle, A., Thomas, S., Anand, S. and Sahoo, S.R. (2018), "Ideal current-based distributed control to compensate line impedance in DC microgrid," *IET Power Electronics*, 11: 1178-1186, doi: [10.1049/iet-pel.2017.0531](https://doi.org/10.1049/iet-pel.2017.0531)

CONFERENCE PUBLICATIONS

1. A. B. Shyam, A. Das, S. R. Sahoo and S. Anand, "Effect of Communication Delay on Steady State Voltage in DC Microgrids," *2022 22nd National Power Systems Conference (NPSC)*, New Delhi, India, 2022, pp. 524-529, doi: [10.1109/NPSC57038.2022.10069847](https://doi.org/10.1109/NPSC57038.2022.10069847)
2. A. B. Shyam, S. Ranjan Sahoo and S. Anand, "Voltage Regulation Controller in DC Microgrid: Implementation Challenges and Solutions," *IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society*, Brussels, Belgium, 2022, pp. 1-6, doi: [10.1109/IECON49645.2022.9968717](https://doi.org/10.1109/IECON49645.2022.9968717)
3. A. B. Shyam, S. R. Sahoo, S. Anand and J. M. Guerrero, "Comparative Study of Various Communication Technologies for Secondary Controllers in DC Microgrid," *2021 9th IEEE International Conference on Power Systems (ICPS)*, Kharagpur, India, 2021, pp. 1-6, doi: [10.1109/ICPS52420.2021.9670303](https://doi.org/10.1109/ICPS52420.2021.9670303)
4. V. P. Abhiram, A. B. Shyam, S. R. Sahoo and S. Anand, "Stability of DC Microgrid for Different Reduced Communication Topologies," *2019 8th International Conference on Power Systems (ICPS)*, Jaipur, India, 2019, pp. 1-6, doi: [10.1109/ICPS48983.2019.9067705](https://doi.org/10.1109/ICPS48983.2019.9067705)
5. V. P. Abhiram, A. B. Shyam, S. R. Sahoo and S. Anand, "Communication Topology Selection for Secondary Controllers in DC Microgrid," *2019 National Power Electronics Conference (NPEC)*, Tiruchirappalli, India, 2019, pp. 1-6, doi: [10.1109/NPEC47332.2019.9034875](https://doi.org/10.1109/NPEC47332.2019.9034875)
6. D. Dhua, A. B. Shyam, S. Anand and S. R. Sahoo, "Dynamic Overcurrent Saturation of Distributed Sources in a DC Microgrid System," *2018 20th National Power Systems Conference (NPSC)*, Tiruchirappalli, India, 2018, pp. 1-6, doi: [10.1109/NPSC.2018.8771443](https://doi.org/10.1109/NPSC.2018.8771443)
7. A. B. Shyam, A. Ingle, S. R. Sahoo and S. Anand, "Performance Analysis of Reduced Communication Network in DC Microgrid," *2018 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia)*, Singapore, 2018, pp. 976-981, doi: [10.1109/ISGT-Asia.2018.8467839](https://doi.org/10.1109/ISGT-Asia.2018.8467839)

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