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He has made significant research contributions in the area of Design and Control of Artificial Intelligence based hybrid renewable energy sources for on-grid and off-grid applications. In this research work the following methodologies are used to achieve the above objective He has published more than 60 research papers in International Journals & Conferences, He is a Review board member for more than 40 International Journals, conferences and Special session Chair in an International Conferences. He has served as a reviewer of IEEE Access, IEEE Transaction on Sustainable Energy and other peer reviewed journals. He has authored 3 books/chapters in Elsevier and Intechopen publication UK. He has received the Young Scientist award from Govt of Tamilnadu. He has also received the outstanding contribution Award from MATLAB, U.S.A for three consecutive years 2015, 2016 and 2017. He has an international copyright for 65 research simulation projects and designs from Mathworks. He has been holding a global ranking of 6th position in Matlab Central Simulation Designers portal out of 15000 designers worldwide.