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Comparison of LSTM-based Prediction strategies for Grid Modal Parameters Forecast

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Carlo Olivieri was born in Teramo, Italy, in 1983. He received the M.S. degree in Computer Science and Automation Engineering in 2008 from the University of L'Aquila and then he got the Ph.D. degree from the same institution in 2013. He worked in the field of Automatic Control, in particular focusing his studies on Sensorless techniques for Multiphase and Fault-Tolerant drives for avionic applications. At present, he is a researcher in the Department of Industrial and Information Engineering and Economics at the University of L'Aquila, where he is currently involved in EMC/EMI and Si/Pi research activities. His actual research topics are mainly related to the monitoring of the power grid through the use of Machine Learning techniques for predictive purposes and to the analysis of aging phenomena of High-Voltage lines through specific TDR-like reflectometric techniques. Furthermore, he is also involved in other research field related to the study of planar and removable EBG-based Common Mode filters for high-speed links and to the study of EMC/EMI problems related to the analysis of EM radiation from server units in modern datacenters through the use of Spherical Wave Expansion methods and Genetic Algorithms.