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INVITED PAPER:

„A Comprehensive Study on Air Pollution Prediction in North Macedonia: Insights from LASSO Modeling“

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Abstract: The study delves into the realm of air quality forecasting, employing the LASSO (Least Absolute Shrinkage and Selection Operator) modeling technique for enhanced predictive accuracy. Utilizing a diverse dataset encompassing meteorological parameters, pollutant concentrations, and other relevant factors, the research explores the robustness of LASSO regression in predicting air pollution dynamics. The analysis establishes correlations and identifies key predictors, shedding light on the intricate relationships within the data. The paper contributes valuable insights to the field of air quality prediction, showcasing the efficacy of LASSO modeling in providing accurate and reliable forecasts, thus facilitating proactive measures for pollution mitigation and environmental management.

Short Bio:

Professor Dr. Mare Srbinovska received her BSc in 2003, MSc in 2009, and Ph.D. in 2015 from the Faculty of Electrical Engineering and Information Technology of the “Ss. Cyril and Methodius” University in Skopje, North Macedonia. She is the Head of the Institute of Electrical Measurements and Materials at the Faculty of Electrical Engineering and Information Technologies (FEEIT), the coordinator of the project financed by FEEIT for air quality improvement using green walls, participated in TEMPUS projects and one DAAD project.
Her expertise is related to metrology, sensors and sensor technologies, data acquisition, and virtual instrumentation.