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Advanced Tools for Renewable Energy Spatiotemporal Modelling

A. Kolovos

SAS Institute, Inc. [alexander.kolovos@sas.com]

The abundance of information sources and the element of natural uncertainty in modelling calls for the utilization of enhanced scientific solutions in the expanding field of spatiotemporal analysis within the renewables energy research. The well-founded approach of the Knowledge Synthesis framework opens new gateways for the rigorous inclusion of additional and versatile knowledge sources, thus paving the way to more accurate predictions in research and making it distinguish among other existing methods. Along these lines, the Spatiotemporal Epistemic Knowledge Synthesis and Graphical User Interface (SEKS-GUI) is introduced as a working tool that implements the core of the above framework, offers advanced spatiotemporal mapping features, and can provide valuable insight in the study of renewable energy sources systems.