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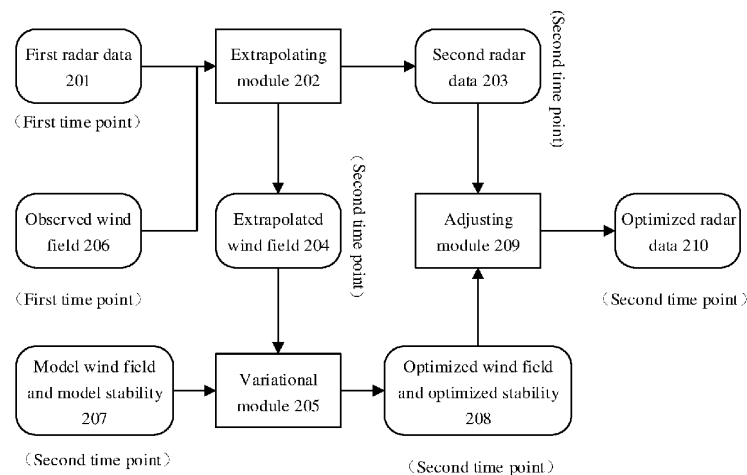


FIG. 2

(57) Abstract: The present disclosure discloses a method and apparatus for forecasting weather, and an electronic device and a storage medium thereof. The method includes: acquiring first radar data at a first time point and an observed wind field at the first time point, the first radar data comprising a geographic location and radar reflectivity data corresponding to the geographic location; acquiring second radar data and an extrapolated wind field at a second time point by inputting the first radar data and the observed wind field into an extrapolation model; acquiring a model wind field and model stability of a numerical weather forecast model at the second time point; acquiring an optimized wind field at the second time point by inputting the model stability, model wind field and extrapolated wind field into a variational module; and acquiring optimized stability by updating the model stability using the optimized wind field.

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