

Forecasting Ionospheric Process Noise Using Long Short–Term Memory Network



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Research Overview Enhancing Satellite Positioning Accuracy and Precision by Providing a Reliable Ionospheric Model





Data-driven Ionospheric Process Noise which Captures the Time Variability of the Ionosphere





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Ionospheric Process Noise across Globally Distributed GNSS Stations



Ionospheric Process Noise Pattern:

- Local Time
- Solar activity
- Geomagnetic activity
- Geographic latitude
- Seasonal variation



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Locate25

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- **LSTM Network** ٠
- The Target and the Features



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July

Forecasting Ionospheric Process Noise Using LSTM Network

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• Correct Fix Rate of the Carrier Phase Measurement

WORKING

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Thank you!



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