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Detecting intrinsic dynamics of traffic flow with recurrence analysis and empirical mode decomposition

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Highlights

- The intrinsic dynamics of traffic flow are evaluated from a frequency-time perspective.
- Components of medium- and low- frequencies dominate the signal's apparent dynamics.
- The denoised RQA diversely characterizes the essential properties of the traffic flow.
- The denoised RQA indicates abrupt changes more accurately.
- The proposed analysis sheds more solid, multiple and inherent lights into the traffic system.

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