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How to connect with each other between roads? An empirical study of urban road connection properties

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Highlights

- A method to quantify the interaction between roads in the traffic network is proposed.
- Named street approach and stroke-like analysis are combined to determine a road or street.
- The original degree still conforms to the power-law distribution under new road definition.
- A series of new measures based on lane properties to characterize an urban road network.
- Correlation of the new measures exhibits significant segmentation in urban street network.

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