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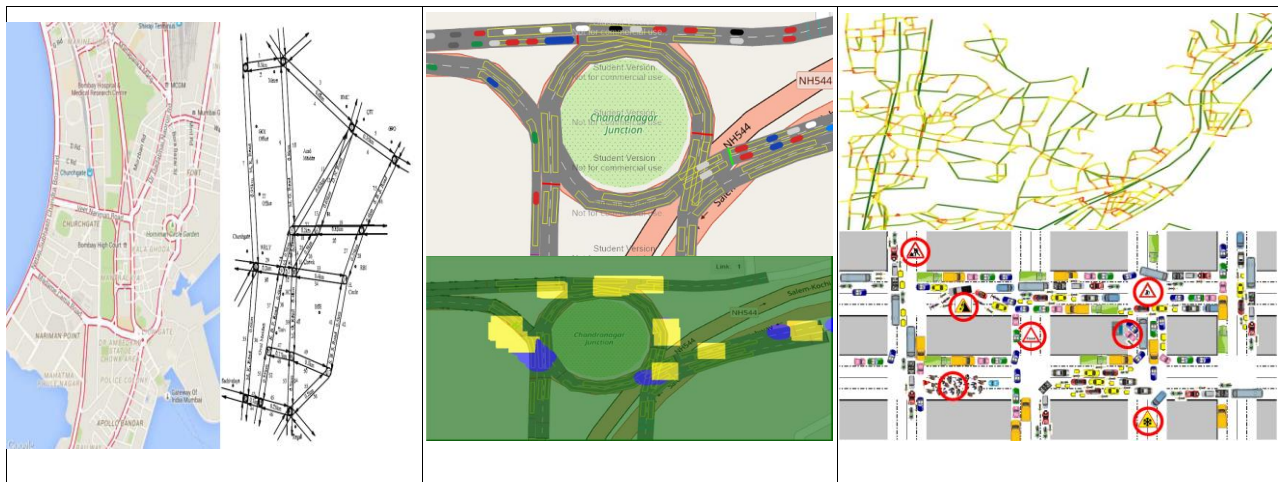


## Research Interests

- Urban and regional road networks
- Traffic operations
- Network disruption
- Traffic safety
- Transportation Systems' Simulation

## Brief Summary of Research

Road networks in many parts of the world have organically evolved into their present state over history. While local analysis and design is primarily resorted to, for ensuring safe and efficient traffic operations on roads, it is also vital that they be studied at a systemic level. This is particularly significant as road networks are prone to unplanned disruptions and demand surges.



## Recent Publications

- An algorithm to compute urban road network resilience, Bhavathrathan, B.K.; Patil, G.R. Transportation Research Record: Journal of the Transportation Research Board (2018)
- Red Light Running at Heterogeneous Saturated Intersections in Mumbai, India: On the Existence of Two Regimes and Causal Factors, Bhosale, M.; Bhavathrathan, B.K.; Patil G.R., Transportation Research Record: Journal of the Transportation Research Board 2619 75 - 84 (2017)
- Modeling Freight Generation, Commodity Contracts, and Shipments for SimMobility Freight – A Disaggregate Agent-Based Urban Freight Simulator, Sakai, Bhavathrathan, Alho, Hyodo, Ben-Akiva 98th Annual Meeting of Transportation Research Board (2019)