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LIST OF PUBLICATIONS :

1. **Vasantha Kumar, S., K.C. Dogiparthi, L. Vanajakshi, and S.C. Subramanian. (2017) Integration of exponential smoothing with state space formulation for bus travel time and arrival time prediction. *Transport*, 32(4), pp. 358–367 (Journal Impact Factor is 1.163: Thomson Reuters Journal Citation Reports).**
2. **Vasantha Kumar, S., and L. Vanajakshi (2015) Short-term traffic flow prediction using seasonal ARIMA model with limited input data. *European Transport Research Review*, Vol.7, Issue 3, pp. 1-9 (Journal Impact Factor is 1.758: Thomson Reuters Journal Citation Reports).**
3. **Malarvizhi, K., S.Vasantha Kumar, P.Porchelvan (2016) Use of High Resolution Google Earth Satellite Imagery in Landuse Map Preparation for Urban Related Applications. *Procedia Technology (Science direct)*, Vol.24, 1835 – 1842. (Available online 9 July 2016).**
4. **S.Vasantha Kumar, R. Sivanandan (2018) Traffic Congestion Quantification for Urban Heterogeneous Traffic using Public Transit Buses as Probes. *Periodica Polytechnica Transportation Engineering*, <https://doi.org/10.3311/PPtr.9218>, Vol. 47, Issue 4, pp.257-267. (Impact factor: 1.08)**
5. **S.Vasantha Kumar, (2017) “Traffic Flow Prediction using Kalman Filtering Technique”, *Procedia Engineering*, Vol. 187, pp. 582-587.**
6. **S.Vasantha Kumar, “GPS based study of speed characteristics of private and government buses in selected bus routes in Tamilnadu, India”, *International Journal of Civil Engineering and Technology (IJCIET)*, Volume 8, Issue 6, June 2017, pp. 813–819.**
7. **S Vasantha Kumar, Himanshu Gulati and Shivam Arora (2017), “Estimation of fuel loss due to idling of vehicles at a signalized intersection in Chennai, India”, *IOP Conf. Series: Materials Science and Engineering*, Vol.263, doi:10.1088/1757-899X/263/3/032028, pp.1-6.**
8. **S Vasantha Kumar, Himanshu Gulati and Shivam Arora (2017), “Traffic Feasibility Study for a Grade Separator at a Busy Intersection in Vellore”, *IOP Conf. Series: Materials Science and Engineering*, Vol.263, doi:10.1088/1757-899X/263/3/032029, pp.1-8.**
9. **S Vasantha Kumar, Himanshu Gulati and Shivam Arora (2017), “Design of a rotary for an uncontrolled multi-leg intersection in Chennai, India”, *IOP Conf. Series:***

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10. G. Omkar and **S. Vasantha Kumar** (2018) “Finite Difference Formulation of Lighthill Whitham Richards (LWR) Macroscopic Model for Traffic Flow Prediction”, International Journal of Applied Mathematics, Vol.31, No.5, pp. 603-610.
11. **S.Vasantha Kumar**, P. Priyadharshini, B. Dhanalakshmi and K. Settu, (2018) “Study of Traffic Flow at a Three Leg Busy Intersection in Vellore, India”, IOP Conf. Series: IOP Conference Series: Materials Science and Engineering, Vol. 396, No.1, doi:10.1088/1757-899X/396/1/012015
12. G. Omkar and **S. Vasantha Kumar**, (2019) “Short-Term Prediction of Intersection Turning Volume using Seasonal ARIMA Model”, Transportation Letters The International Journal of Transportation Research (Impact factor: 1.840), VOL. 12, NO. 7, 483–490. DOI 10.1080/19427867.2019.1645476, Published online on July 20, 2019.
13. S.Vigneshwaran, and **S. Vasantha Kumar**, (2019) “Urban Land Cover Mapping and Change Detection Analysis Using High Resolution Sentinel-2A Data”, Environment and Natural Resources Journal, Vol.17, Issue 1, pp.22-32 (Published online: 5 Oct 2018).
14. S.Vigneshwaran, **S.Vasantha Kumar**, (2018) “Extraction of Built-Up Area using High Resolution Sentinel-2A and Google Satellite Imagery”, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (ISPRS Archives), Vol. XLII-4/W9, pp. 165-169.
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16. Geocarto International (Impact factor: 3.789), Published online on 18-09-19, <https://doi.org/10.1080/10106049.2019.1665714>.
17. G. Omkar and **S. Vasantha Kumar**, (2020) “Measurement of Mode-wise Individual Delay Components and Prediction of Queue length at a Signalized Intersection under Heterogeneous Traffic Conditions”, Journal of The Institution of Engineers (India): Series A, 101(4), 753-770, <https://doi.org/10.1007/s40030-020-00474-0> Published online on October 5, 2020.