

1. Name and Photograph: **Dr. S.Padma**

2. Designation and complete address including email id.

Scientist, Transportation Planning Division  
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3. Areas of Interest: **Transportation Planning, Traffic Engineering, Road Safety**

4. Educational Qualification – starting from the highest degree

Degree	Subject	University/ Institution	Division	Year of Passing
PhD (Doctor of Philosophy)	Transportation Engineering	Institute for Transport Studies, University of Leeds, Leeds, United Kingdom*	-NA-	2015
M.E (Master of Engineering)	Urban Engineering	College of Engineering, Anna University, Chennai, India	First Class with Distinction	2005
B.E (Bachelor of Engineering)	Civil Engineering	Madras University, Chennai, India	First Class	2003

\* Institute will not award any grade/ rank/ division

5. Professional Experience - in reverse chronological order

From	To	Name of the Employer	Position Held
Jan, 2018	Till Date	C.R.R.I., New Delhi	Principal Scientist/Scientist E-II
Jan, 2014	Jan,2018	C.R.R.I., New Delhi	Senior Scientist/ Scientist E-I
Jan, 2010	Jan, 2014	C.R.R.I., New Delhi	Scientist/ Scientist C
Nov, 2011	Jul, 2015	University of Leeds, United Kingdom	PhD Research Scholar
Jan, 2007	Jan, 2010	C.R.R.I., New Delhi	Junior Scientist/ Scientist B
May,2006	Dec, 2006	Vax Consultants Pvt Ltd, Chennai	Traffic and Transportation Engineer
May,2005	May, 2006	Dr. M.G.R.Engineering College, Chennai	Lecturer (Civil Engineering)

6. Membership to Professional Bodies

- (i) Life Member of Institute of Urban Transport (India)
- (ii) Life Member of Indian Roads Congress (IRC)
- (iii) Life Member of Transportation Research Group of India (TRG)

7. Achievements

a. Honours and Awards

- (i) Recipient of Commonwealth PhD Scholarship (UK) for 2011 - 2015 and completed PhD during this period at Leeds University, UK. Scholarship reference –INCS 2011-148

b. Research Projects

	Title of the Project	Sponsored by	Role	Status
1	Route Choice and Frequency Optimization under Countdown information for bus passengers with strict Capacity Constraints	In-House	Project Leader	On-Going
2	Comprehensive Mobility Plan – Ahmedabad City	Ahmedabad Traffic Police	Task Leader	Completed
3	Impact of Traffic on Health amongst School Children in Delhi'	IIHMR	CO-PI	Ongoing
4	Health Impact Assessment of Delhi Metro	IIHMR	CO-PI	Completed
5	Assessment of Traffic Characteristics on Vasundara Road and Impact of Trilokpuri and Mayur Vihar Pocket 1 Metro stations of Line 7 of Delhi Metro on Vasundara Road	DMRC	Project Leader	Completed
6	Site Impact Assessment due to Proposed DMRC office complex at Jantar Mantar Area, New Delhi	DMRC	Project Leader	Completed
7	Development and Application of Technologies for Sustainable Transportation (SUSTRANS)	12 <sup>th</sup> Five Year Plan Funds	Team Member	Completed
8	Entry headway characteristics at Signalized Intersections.	In-house Project	Project Leader	Completed
9	Development of Road user cost models for high speed corridors ranging from two lane to multilane highways and expressways	11 <sup>th</sup> Five Year Plan Funds	Sub Task Leader	Completed
10	Validation of the relationship between time mean speed and space mean speed	In-House	Project Leader	Completed
11	Feasibility study of replacing cycle-rickshaws operations by CNG Mini Buses in various parts of Delhi	DDA	Member	Completed
12	Traffic and Transportation Study for Ludhiana Metro	Ludhiana Metro	Team Member	Completed

c. Research Publications: Total Publications:21;

*SCI Journals (3):*

1. Velmurugan, S., **Padma, S.**, Errampalli, M., Shukla, A. and Gangopadhyay, S. 2013. A study of factors influencing the severity of road crashes involving drunk drivers and non drunk drivers, *Journal of Research in Transportation Economics*, Elsevier Publishers, **38 (1)**, 78-83. (Impact Factor: 0.59)
2. **Padma, S.**, Errampalli, M., Velmurugan, S., Shukla, A. and Gangopadhyay, S. 2011. Modeling time mean speed and space mean speed for heterogeneous traffic conditions, *Journal of Transportation Planning and Technology*, **34 (8)**, 823-838. (Impact Factor: 0.427)
3. **Padma Seetharaman**. 2017. Modelling risk aversion using a disaggregate stochastic process model in

congested transit networks, *Public Transport* , 9 (3), 549-569. (0.832 SJR)

***Refereed Journals (5):***

1. **Padma, S.,** Velmurugan, S., 2018. Transit Assignment with strict Capacity Constraints in presence of Countdown Information , IEEE explore , 10th International Conference on Communication Systems & Networks (COMSNETS), 613-618.
2. **Padma, S.,** Velmurugan, S., Errampalli, M., Sitaramanjaneyulu, K., Gangopadhyay, S. and Revathi, A. 2012. Modeling occurrence and severity of road crashes on selected multi-lane carriageways in India, *Highway Research Journal, Indian Roads Congress*, 5 (2), 27-32.
3. **Padma, S.,** Errampalli, M., Shah, P. M., Shukla, A. and Gangopadhyay, S., 2011. A study of road crashes along the high speed corridors of India. *Journal of Road Transport, Institute of Road Transport (IRT)*, **3**, 1-14.
4. **Padma,S,** Likith Reddy Asani, Anuradha.S, Gangopadhyay.S.,2011. Atmospheric dispersion modelling of pollutants at selected Urban Corridors in Delhi using ADMS. *Indian Journal of Air pollution Control*, **11** (1), 69-74.
5. **Padma,S,** S.Lakshmi., 2009 Statistical Evaluation of Frequency Phenomenon of Incidence of Bus Driver Accidents in a Metropolitan City, *Indian Highways, IRC*, **32**, 51-57.

***International Conferences (9):***

1. **Padma, S.,** Velmurugan, S., Errampalli, M. and Shukla, A. 2010. Modeling accident severity using multinomial logit model. *Proc. International Conference on Infrastructure, Sustainable Transportation and Urban Planning CISTUP@CiSTUP 2010*, IISc, Bangalore, , 18 - 20 October 2010.
2. **Padma, S.,** Errampalli, M., Mukhopadhyay, D. and Gangopadhyay, S., 2009. Comparative evaluation of mode choice modelling by logit and fuzzy logic. *Proc. 8<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Surabaya, Indonesia, 16 - 19 November 2009.
3. **Padma Seetharaman,** Watling. D and Balijepalli. N.C., 2015. Reliability Based Disaggregate Stochastic Process Model in Congested Transit Network, *47th Universities Transport Study Group Annual Conference (UTSG)*, City College London, London, United Kingdom.
4. **Padma Seetharaman,** Watling.D, Balijepalli. C., 2014. Markovian framework to assess route choice in a transit network service influenced by endogenous and exogenous reliability factors, *3rd Symposium of the European Association for Research in Transportation (hEART 2014)*, University of Leeds, Leeds, United Kingdom. 10th - 12th Sep, 2014.
5. **Padma Seetharaman,** Watling.D, Balijepalli. C., 2013. Modelling the impact of unreliability on passengers' strategy choice in public transport networks—a hyperpath approach, *2nd Symposium of the European Association for Research in Transportation (hEART 2013)*, KTH University, Stockholm, Sweden. 4th - 6th Sep 2013.
6. **Padma Seetharaman,** Watling.D, Balijepalli. C, 2013. Line choice probability in a transit network during bus breakdown, *45th Universities Transport Study Group Annual Conference (UTSG)*, University of Oxford, United Kingdom, Jan 2-4, 2013.
7. Bincy Babu, **Padma S,** Geeva George, 2017. Route searching based on travel time variability for bus network, *4th Conference of Transportation Research Group of India (CTRG)*, IIT – Bombay, Mumbai, Dec 17-20 2017.
8. Riya Elizebeth Robin, **Padma.S,** Purnima Parida, Jomy Thomas, Kannan. S, Optimal strategybased transit assignment including travel time variance, *4th Conference of Transportation Research Group of India (CTRG)*, IIT – Bombay, Mumbai, Dec 17-20 2017.
9. **Padma Seetharaman,** Nataraju Jakkula, Madhu Errampalli and Satish Chandra, Computation of Line Choice Probability Assuming Countdown Information at Transit Stops - Case study for a section of Delhi Bus Transit Network, *12th TPMDC, IIT-Bombay, Mumbai* , 19-21 Dec 2017.
10. **S.Padma,** S.Velmurugan, Namrita Kalsi, Kayitha Ravinder, Madhu Erramapalli, 2020. Traffic Impact Assessment for Sustainable Development in Urban Areas. *Transportation Research Proceedia*, 48, 3173-3187.

***National Conferences (4):***

1. Shah, P. M., **Padma, S.**, Errampalli, M. and Dave, J. M. 2011. Probabilistic model for prediction of road crash severity on high speed corridors of India. *Proc. 3rd National Civil Engineering Student Research Symposium*, IIT, Bombay, March, 2011.
2. Velmurugan.S, **Padma S. 2007** “A Comparison of Sophisticated Methods of Traffic Data Collection Techniques” published in the proceedings of National Workshop on Characterization of Urban Traffic held at IIT, Madras, March, 2007.
3. Saranya Sasi, **S.Padma**, Bino I Koshy and K Ravinder, 2018, Incorporation of Memory Length Parameter In A Day-to-day Modelling Framework & Its Comparison With Stochastic User Equilibrium Model, 3<sup>RD</sup> National Conference on Recent Advances Traffic Engineering (RATE), SVNIT SURAT.
4. AshaLakshmi VM, **S.Padma**, Bino I Koshy and Neelima Chakrabarty, 2018, A Comparison between Equilibrium Model and a Day-To-Day Model for Transit Rider’s Route Choice with Calibrated Information Parameter, 3<sup>RD</sup> National Conference on Recent Advances Traffic Engineering (RATE), SVNIT SURAT.

**d. Any Other information –**

- Acted as thesis supervisor for Mtech student and summer training interns at CSIR-CRRI. Undertook certain sections of Transport Planning course and Public transport course for the Mtech students of AcSIR. Worked in the capacity of demonstrator for the softwares SATURN, DRACULA and Omni-TRANS for the laboratory course work of MSc Engg students at University of Leeds, United Kingdom.
- Was the co-reviewer for leading conferences such as Transportation Research Board TRB (2013) and the 5th international symposium on Transportation Network Reliability (5th INSTR).
- Was involved in the capacity of lecturer in the Economic and Financial Analysis of Highway and Transportation Projects’ organized by CSIR-CRRI on 14th July 2016.
- Involved in the capacity of lecturer in the ‘Road Safety Audit and Other Road Safety Related Aspects’ for Road Safety Auditors/ Highway Engineers/ Traffic Engineers/ Transportation Planners and Student Interns at Council Hall, CSIR - CRRI, New Delhi.
- Was involved in the capacity of lecturer in “Traffic Engineering and Road Safety Audit
- Acted as a reviewer for the Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC) 2016, conference, 4th Conference of Transportation Research Group (CTRG) 2017 and for World Road Meeting (WRM) 2017.