

Career Highlights

- Currently working as Postdoctoral researcher at Orange Labs R&D, Paris.
- Member of SelfNet project team of INRIA - Alcatel-Lucent Bell Labs common lab.
- Worked in **SCALUS** European Union funded research (FP7) project.
- Worked in TRAFIC project during my masters. TRAFIC project was supported by the French National Research Agency.

Education

- 2010 - 2013 **PhD in Telecommunication**, *Institut National des Sciences Appliquées de Lyon (INSA)*.
- 2007 - 2009 **Master of Technology in Network Engineering**, *Manipal Institution of Technology (MIT)*, Manipal University, CGPA: 8.3/10.
- 2006 - 2007 **Post Graduate Diploma in Software Engineering**, *NIIT*, Udupi, India, Grade: Excellent.
- 2002 - 2006 **Bachelor of Engineering in Electronics and Telecommunications**, *VTU, Belgaum*, India, Grade: First Class.

Work Experience Summary

- April. 2014 - **Post-Doc**, *Orange Labs R&D*, France,
Present – Exploiting large-scale telecom data to understand mobility and activity pattern of anonymous subscribers. Hadoop framework is used for storing and processing this BigData with Hive and Pig as languages..
- Oct. 2010 - **PhD**, *French National Institute for Research in Computer Science and Control (INRIA)*, France,
Nov. 2013 – Understanding the mobility behaviour of wireless smart devices (particularly In-vehicle devices) and their effect on Quality of Service in both ad-hoc and cellular network perspective. Skill acquired during this experience are problem analysis, problem solving, collaboration, mentoring.
- Feb - Aug 2010 **Early Stage Researcher**, *Foundation for Research and Technology Hellas (FORTH-ICS)*, Greece,
– Responsible for the development of efficient data synchronisation techniques between mobile devices using cloud computing. Skill acquired during this project are Python, XML, HTML, Protocol buffers.
- Feb - Jun 2009 **Lecturer**, *MIT*, Manipal India,
– Teaching and assisting under graduate students in computer networking laboratory experiments. Evaluation, time management and leadership skills were few things which I developed.
- Jun - Dec 2008 **Research Intern**, *ESIGELEC-IRSEEM*, France,
– Involved in design and experimentation of autonomous network protocols. Skills acquired with this experience are C++, NS-2, working on Linux systems.
- Aug 2007 - **Teaching Assistant**, *MIT*, Manipal India,
May 2008 – Monitoring under graduate students with laboratory experiments apart from course work. This gave an in-depth knowledge on working with real network devices like cisco routers, switches, EMC² Storage management tools.

Technical skills and Interest

- Languages Python, C, C++, Java [used for extending Hive functionality]
- Experience Big Data processing with Hadoop, Hive, Pig, XML, HTML, Google Protocol buffers, SQL, AWK, Gnuplot, LaTeX
- Emulators **EURECOM's OpenAirInterface** [OpenAirLTE]
- Working Area Autonomous networks (Vehicular, Pedestrian), Network mobility, Access networks, Telecom Data analysis, Prediction models, Mobility models.

Book chapters

- S. Uppoor, M. Fiore, J. Harri, "Synthetic mobility traces for vehicular networking", Vehicular Networks, H. Labiod and A.-L. Beylot (Editor), pp.209-245, **John Wiley & Sons**, ISBN: 9781848214897.
- P. Manzoni, M. Fiore, S. Uppoor, F.J. Martinez Dominguez, C.T. Calafate, J.C. Cano, "Mobility Models", C. Campolo, A. Molinaro, R. Scopigno (Editors), **Springer**, 2014.

Publications

- S. Uppoor, M. Fiore, "*Characterizing pervasive vehicular access to the cellular RAN infrastructure: an urban case study*", **IEEE Transactions on Vehicular Technology** (to appear).
- S. Uppoor, O. Trullols-Cruces, M. Fiore, J.M. Barcelo-Ordinas "*Generation and Analysis of a Large-scale Urban Vehicular Mobility Dataset*", **IEEE Transactions on Mobile Computing**, ISSN: 1536-1233, TMC.2013.27.
- Sandesh uppoor, Marco Fiore, "*Insights on metropolitan-scale vehicular mobility from a net-working perspective*", In ACM HotPlanet 2012, 2012, Low Wood Bay, UK.
- Sandesh uppoor, Marco Fiore, "*Large-scale Urban Vehicular Mobility for Networking Research*", In Proc. IEEE Vehicular Networking Conference 2011, Amsterdam, The Netherlands, November 2011.
- Sandesh uppoor, Manohara Pai MM, Mounir Boussedjra, Joseph Mouzna "*Scalable Routing Technique using Road Hierarchy for Vehicular Networks*", In Proc IEEE(France section) 9th International Conference on ITS Telecommunications, October 20-22, Lille, France, 2009.
- Sandesh uppoor, Joseph Mouzna, Mounir Boussedjra, Manohara Pai MM, "*Density Aware Routing Using Road Hierarchy for Vehicular Networks*", In Proc 5th IEEE International Conference on Service Operations, Logistics and Informatics, July 22-24, Chicago, U.S, 2009.

Short papers, Posters and Talks

- [Poster & Journal] Uppoor, Sandesh and Fiore, Marco, "**MobiCom 2011** poster: vehicular mobility in large-scale urban environments", October 2011, New York, USA.
- [Talk & Paper] "A large-scale urban vehicular mobility trace for network research,
@Journées Nationales des Communications dans les Transports Terrestres, Colmar, France.
@4th COST IC1004 MC and Scientific Meeting, Lyon, France.
@14èmes Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (Algotel 2012), France, May 2012.
- [Poster & Short paper] Sandesh uppoor, Michail D. Flouris, Angelos Bilas, "*Cloud-based Synchronization of Distributed File System Hierarchies*", In Proc IEEE International Conference on Cluster Computing 2010, September 20-24, Heraklion, Greece, 2010.
- [Talk & Case Study Report] "*The Effect of the MS Speed on the Traffic Performance of an Integrated Mobile WiMAX and DSRC Multimedia Networks on the Highway*", Manipal University

Extra-Curricular Activities

- [Demo] "*Scalable mobility over cellular networks*", **Bell Labs Open Days 2012**, Bell Labs Research Center, Villarsaux France. May 2012.
- [Demo] "*Network Node using GPS*" in International Conference on Advances in Information and Communication Technologies (ICICOT 07) held in Manipal on December 2007.
- [Tutorial] "*Use of Network Simulator 2*" in National Level Workshops "**PING 2008**", "**PING 2009**" organized by Manipal Institution of Technology.