

Darshan Santani

Idiap Research Institute, Switzerland

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EDUCATION	PhD in Electrical Engineering EPFL, Lausanne, Switzerland Thesis Advisor: Daniel Gatica-Perez	July'12 - Present
	MSc in Management, Technology, & Economics ETH, Zurich, Switzerland Thesis: "Urban Information System for the Real-Time City"	March 2012
	Bachelor of Engineering (B.E.) in Computer Science & Engg. Manipal Institute of Technology, India Thesis: "Internationalization and Architecture Enhancement on Printing Mechanisms in Firefox Web browser"	July 2006
RESEARCH EXPERIENCE	Social Computing Group, Idiap Research Institute, EPFL <i>Research Assistant</i> Supervisors: Daniel Gatica-Perez, Idiap Research Institute, Switzerland	July'12 - Present
	IBM Research Africa, Nairobi <i>Research Intern</i> , "CommuniSense: Crowdsourcing Road Hazards in Nairobi" Supervisors: Reginald Bryant, Osamuyi Stewart, IBM Research	June'14 - Sept'14
	Wearable Computing Lab, ETH, Zurich <i>Research Intern</i> , "Design and Development of CoenoSense Backend Platform" Supervisors: Martin Wirz, Prof. Gerhard Troster, ETH Zurich	June'11 - Sept'11
	SENSEable City Lab, MIT, Boston <i>Research Student</i> , "LIVE Singapore!" Project Page: http://senseable.mit.edu/livesingapore/ Supervisors: Carlo Ratti, Krisitian Kloeckl, MIT	Oct'10 - April'11
	Microsoft Research Asia, Beijing <i>Research Intern</i> , "Towards Urban Computing with GPS-Equipped Taxis" Supervisor: Yu Zheng, Lead Researcher, MSRA	June'10 - Oct'10
	School of Information Systems, SMU, Singapore <i>Research Engineer</i> , "Spatio-temporal efficiency of a Taxi Dispatch System" Supervisors: Rajesh K. Balan & C. Jason Woodard, SMU	Sep'07 - Aug'09
	School of Information Systems, SMU, Singapore <i>Research Engineer</i> , "Kuala: Computational Modeling Tools" Supervisor: C. Jason Woodard, SMU	Feb'07 - Aug'09
INDUSTRIAL EXPERIENCE	RedHat Inc. <i>Software Engineer</i> , Engineering Services and Operations Group, India Project Title: "Internationalization and Architecture Enhancement on Printing Mechanisms in Firefox Web browser"	Feb'06-Aug'06

PUBLICATIONS

- Salvador Ruiz-Correa, Darshan Santani, Beatriz Ramirez Salazar, Itzia Ruiz Correa, Fatima Alba Rendon-Huerta, Carlo Olmos Carrillo, Brisa Carmina Sandoval Mexicano, Angel Humberto Arcos Garcia, Rogelio Hasimoto Beltran and Daniel Gatica-Perez “SenseCityVity: Mobile Sensing, Urban Awareness, and Collective Action in Mexico” *IEEE Pervasive Computing (Forthcoming)*, 2016
- Darshan Santani, Salvador Ruiz-Correa, Daniel Gatica-Perez “Looking at Cities in Mexico with Crowds ” in *Proceedings of the ACM Symposium on Computing for Development (ACM-DEV)*, 2015
- Darshan Santani, Daniel Gatica-Perez “Loud and Trendy: Crowdsourcing Impressions of Social Ambiance in Popular Indoor Urban Places” in *Proceedings of the ACM Multimedia (MM’15)*, 2015
- Darshan Santani, Jidraph Njuguna, Tierra Bills, Aisha W. Bryant, Reginald Bryant, Jonathan Ledgard, Daniel Gatica-Perez “CommuniSense: Crowdsourcing Road Hazards in Nairobi” in *Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)*, 2015
- Salvador Ruiz-Correa, Darshan Santani, Daniel Gatica-Perez “The Young and the City: Crowdsourcing Urban Awareness in a Developing Country” in *Proceedings of the Urb-IoT*, 2014
- Darshan Santani, Daniel Gatica-Perez “Speaking Swiss: Languages and Venues in Foursquare” in *Proceedings of the ACM Multimedia (MM’13)*, 2013
- Darshan Santani, Daniel Gatica-Perez “Revisiting the Generality of the Rank-based Human Mobility Model” in *Adjunct Proceedings of UbiComp’13*, 2013
- Stephan Karpischek, Darshan Santani, Florian Michahelles, “Usage Analysis of a Mobile Bargain Finder Application” in *Proceedings of the 13th International Conference on Electronic Commerce and Web Technologies (EC-WEB)*, 2012
- Siddharth Sanan, Darshan Santani, K. Madhva Krishna, Henry Hexmoor, “Extension of Reeds & Shepp Paths to a Robot with Front and Rear Wheel Steer” in *Proceedings of the 2006 IEEE International Conference on Robotics and Automation (ICRA)*, 2006

POSTERS AND DEMOS

- Jidraph Njuguna, Darshan Santani, Tierra Bills, Aisha W Bryant, Reginald Bryant, “Citizen Engagement and Awareness of the Road Surface Conditions in Nairobi, Kenya” in *Proceedings of the Fifth ACM Symposium on Computing for Development (ACM DEV)*, 2014
- Darshan Santani, Daniel Gatica-Perez “#-grams: Twitter Pulse from Hashtag Co-Occurrence Networks” in *ACM Web Science Data Visualization Challenge*, 2014 (**Best Student Award**)
- Darshan Santani, Rajesh Krishna Balan, C Jason Woodard, “Understanding and Improving a GPS-based Taxi System” at the *Sixth International Conference on Mobile Systems, Applications, and Services (MobiSys)*, 2008

TECHNICAL REPORTS

- Yin Zhu, Yu Zheng, Liuhan Zhang, Darshan Santani, Xing Xie, Qiang Yang “Inferring Taxi Status Using GPS Trajectories”, 2011
- Darshan Santani, Yu Zheng, Chih-Chieh Hung, Wen-Chih Peng, Xing Xie “Towards Urban Computing with GPS-Equipped Taxis”, 2010
- Darshan Santani, Rajesh Krishna Balan, C Jason Woodard, “Spatio-temporal Efficiency in a Taxi Dispatch System”, 2007

PATENT	Darshan Santani, Dr.B.H.S. Thimmappa, MIT Manipal “An Improved Process for the Recovery of Metallic Silver from Photographic Wastes”, Indian Patent (532/CHE/2004A)
TEACHING	Teaching Assistant, Computational Social Media (PhD Course) Spring 2015, 2016 Department of Electrical Engineering (EDEE), EPFL, Switzerland
SCHOLARSHIPS AND AWARDS	<ul style="list-style-type: none"> • ACM Multimedia (ACM MM) Travel Grant, 2015 • “Best Student Award” in ACM Web Science Data Visualization Challenge, 2014 • “SUN Scholarship”, CEU Summer University, 2008 • Red Hat “Lord of the Codes” Scholarship, awarded by RedHat in collaboration with IIT-Bombay, 2005 • “All India Scholarship” EEI(Delhi), 2000
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Languages: R, Java, Python, Processing • Operating Platforms: Linux/Unix, Windows
UNDERGRADUATE ACHIEVEMENTS	<ul style="list-style-type: none"> • Design project titled “A simple device for the insertion of a thread into a needle” selected amongst <i>Top 10 Designs</i> in the “Open Design Contest” at IIT-Bombay’s international technical festival, Techfest’05, 2005 • Won the <i>1st prize</i> in a technical competition involving the design of complex mazes “Gone in 15 seconds” at IIT-Bombay’s Techfest’05, 2005 • Won the Robotics competition organized by IEEE, MIT Manipal, 2014 • Won the <i>1st Prize</i> in “Math Modeling Contest” at TechDay 2K4, MIT Manipal, 2004 • Design project titled “Synthesis and Fabrication of Logarithmic Spiral Function Generator” selected amongst <i>Top 20 Designs</i> in the “Open Design Contest” at IIT-Bombay’s international technical festival, Techfest’04, 2004