## PARUL PANDEY

Contact Information	96 Frelinghuysen Rd (CoRE 632) Piscataway, NJ 08854 Mobile: (801) 661-8737	<i>E-mail:</i> parul_pandey@cac.ru <i>Visa Status:</i> Student-F1 <i>Webpage:</i> https://sites.google	tgers.edu e.com/site/parulrutgers/	
Research Areas	Approximate Computing, Mobile Computing	ıg		
Education	Rutgers, The State University of New Jersey, New Brunswick, NJ2011-PresentPh.D. in Electrical and Computer EngineeringGPA: 3.6/4.0• Thesis: Enabling Applications in Resource-constrained Mobile Computing via Approximation• Advisor - Dr. Dario Pompili			
	<ul> <li>The University of Utah, Salt Lake City, UT</li> <li>M.S. in Electrical and Computer Engineering</li> <li>Thesis: Modeling of Point Spread Functions for Astronomical Multifiber Sp.</li> <li>Advisor - Dr. Adam Bolton</li> </ul>		<b>2009-2011</b> GPA: 3.8/4.0 ectrographs	
	Indira Gandhi Institute of Technology, GGSIP University, Delhi, India2004-2008B.S. in Electronics and Communication Engineering• Thesis: Physical Layer Implementation of WiMAX (IEEE 802.16-d) in MATLAB• Advisor - Dr. Kanchan Sharma			
Research Experience	<b>Graduate Research Assistant</b> Department of Electrical and Computer En	gineering, Rutgers University, NJ	2013-Present	
Teaching Experience	<ul><li>Graduate Teaching Assistant</li><li>Department of Electrical and Computer En</li><li>Courses: Programming Methodology,</li></ul>	gineering, Rutgers University, NJ Discreet Mathematics.	2011-2013	
Publications	Refereed Journals			
	• P. Pandey, E. K. Lee, and D. Pompili, "A Distributed Computing Framework for Real-time Detection of Stress and of its Propagation in a Team," <i>IEEE Journal of Biomedical and Health Informatics</i> , preprints, 2015.			
	• P. Pandey, D. Pompili, and Jingang Yi, "Dynamic Collaboration between Networked Robots and Clouds in Resource-constrained Environments," <i>IEEE Transactions on Automation Science</i> <i>and Engineering</i> , vol. 12, no. 2, pp. 471-480, Jan. 2015. [2016 IEEE RAS Best New Application Paper Award]			
	• P. Pandey, M. Hajimirsadeghi, and D. Pompili, "Region of Feasibility of Interference Alignment in Underwater Sensor Networks," <i>IEEE Journal of Oceanic Engineering</i> , vol. 39, no. 1, pp. 189- 202, Jan. 2014.			
	Refereed International Conferences			
	• H. Viswanathan, <b>P. Pandey</b> , and D. Pompili, "Maestro: Orchestrating Concurrent Workflows Execution in Mobile Device Clouds", in 2 <sup>nd</sup> Workshop on Distributed Adaptive Systems at IEEE International Conference on Autonomic Computing (ICAC), Wurzburg, Germany, July 2016.			
	• P. Pandey and D. Pompili, "MobiDiC: Exploiting the Untapped Potential of Mobile Distributed Computing via Approximation," in <i>Proc. of IEEE Pervasive Computing and Communications Conference (PerCom)</i> , Sydney, Australia, March 2016.			

- E. K. Lee, **P. Pandey**, and D. Pompili, "Real-time Tracking of Stress Propagation using Distributed Granger Causality," in *Proc. of ACM International Conference on Body Area Networks* (*BodyNets*), Boston, MA, Sept. 2013.
- P. Pandey, H. Viswanathan, and D. Pompili, "Leveraging Mobile Grid Computing for Interference Alignment and Cancelation," in *Proc. of IEEE Military Communications Conference* (*MILCOM*), Orlando, FL, Nov. 2012.
- B. Chen, **P. Pandey**, and D. Pompili, "A Distributed Adaptive Sampling Solution using Autonomous Underwater Vehicles," in *Proc. of ACM International Conference on Underwater Networks & Systems (WUWNet)*, Los Angeles, CA, Nov. 2012.
- P. Pandey and D. Pompili, "On the Region of Feasibility of Interference Alignment in Underwater Sensor Networks," in *Proc. of IEEE Underwater Communications: Channel Modelling&Validation (UComms)*, NATO Centre, La Spazia, Italy, Sept. 2012.
- B. Chen, **P. Pandey**, and D. Pompili, "Adaptive Sampling Based on Deterministic Compressive Sensing using Autonomous Underwater Vehicles," in *Proc. of IFAC Conference on Maneuvering and Control of Marine Craft (MCMC)*, Arenzano (GE), Italy, Sept. 2012.

## Posters

• P. Pandey, and D. Pompili. "Distributed Computing Framework for Underwater Acoustic Sensor Networks." in *Proc. of IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS)*, Cambridge, MA, May 2013.

Awards	• Scholarship to attend Doctoral Consortium at 2016 ACM Richard Tapia Celebration of Diversity in Computing.			
	• Teaching Asst. & Graduate Asst. Professional Development Fund Award, Rutgers University.			
	<ul> <li>Scholarship to attend Early-Career Mentoring Workshop at Computing Research Association- Women (CRA-W), 2015</li> </ul>			
	• Grace Hopper Celebration Scholarship Grant, 2014.			
	• ECE Travel Award, 2014, by Dept. of Electrical and Computer Engineering, Rutgers University.			
Skills	Programming & Scripting Languages: Java, Android, MATLAB, Python, AMPL, C/C++ Simulation & Analysis Tools: MATLAB, Iperf Technical Documentation Tools: T <sub>E</sub> X, IAT <sub>E</sub> X Platforms: Shimmer motes, Unix/Linux, Windows, Raspberry Pi			
Relevant Courses	Data Structures and Algorithms Digital Image Processing	Wireless Communication Advanced Random Processes	Advanced Random Processes Digital Signal Processing	
Services	• Mentored a group of high school students on a research project under New Jersey Governor's School of Engineering & Technology program at Rutgers University.			
	• Collaborated with Curiosity Machine, a non-profit organization, to introduce underwater com- munication research to children through online activities and videos.			
	• Served as external reviewer for major journals and conferences including Ad Hoc Networks (Elsevier), Ocean Engineering (Elsevier), Journal of Oceanic Engineering, IEEE SECON, IEEE			

INFOCOM, ACM WUWNet, IEEE GLOBECOM.