Sepideh Nikookar

Contact Information	♥ Big Data Analytics Lab University Heights GITC Suite 4416 Newark, NJ 07102	<pre>Sn627@njit.edu I https://web.njit.edu/~sn627/ in https://www.linkedin.com/in/sepideh-nikookar/ I +1 (718) 915-8884</pre>	
Research Interests	Data Management for AI, Data Ex timization Techniques, Data Science	ploration, Reinforcement Learning, Human-in-the-loop AI, Op- e Applications.	
Relevant Skills		Python, SQL, Matlab, C#, R, RStudio, Mathematica. cement Learning, Diversity in Recommendation, Task Planning, ce, MathType.	
Education	• New Jersey Institute of Te	echnology (NJIT)	
	– Ph.D. Candidate in Con	nputer Science (Sep 2019 - Aug 2023).	
	* Dissertation Topic: I* Advisor: Professor S* GPA: 3.95.	Human-AI Complex Task Planning enjuti Basu Roy.	
	• K.N. Toosi University of Technology, Iran		
	– M.S. in Applied Mathematics (Sep 2014 - Dec 2016).		
	 * Dissertation Topic: C Functions. * Advisor: Professor N * GPA: 4.00 (Valedictor) 		
	– B.S. in Applied Mathema	atics (Sep 2010 - July 2014).	
	* GPA: 3.52 (3rd rank		
Published Papers	 Human-AI Complex Task Plan S. Nikookar; 2023 IEEE 39tl 	nning. h International Conference on Data Engineering (ICDE).	
	 Cooperative Route Planning F tions. S. Nikookar, S. Somasunder 	Framework for Multiple Distributed Assets in Maritime Applica- r, P. Sakharkar, S. Basu Roy, A. Bienkowski, M. Macesker, K. D/PODS '22: Proceedings of the 2022 International Conference	
	 Guided Task Planning Under S. Nikookar, P. Sakharkar, I national Conference on Data I 	B. Smagh, S. Amer-Yahia, S. Basu Roy; 2022 IEEE 38th Inter-	
	 Diversifying Recommendation S. Nikookar, M. Esfandiari I The VLDB Journal 2022. 	s on Sequences of Sets. M, RM. Borromeo, P. Sakharkar, S. Amer-Yahia, S. Basu Roy;	
		prove User Satisfaction in Web Applications. neo, S. Nikookar , P. Sakharkar, S. Amer-Yahia, S. Basu Roy; e Web Conference 2021.	

Technology Transfer	• A Reinforcement Learning based framework (SIGMOD 2022) is being deployed for water-space management in Navy Research Lab, Monterey, CA.	
Honors and Awards	• 2023 IEEE International Conference on Data Engineering (ICDE) Travel Award.	
	• ACM SIGMOD/PODS 2022 Student Travel Award.	
	• Ranked second among CS students in NJIT GSA 3 Minutes Presentation (March 2022).	
	• The Web Conference 2021 Student Scholarship Award.	
	\bullet Certificate of Recognition for outstanding GPA (Top 5%) in B.S.	
Conference Presentations	 Human-AI Complex Task Planning, 39th IEEE International Conference on Data Engineering (ICDE) Ph.D. Symposium (Anaheim, CA, April 2023) 	
	• Cooperative Route Planning Framework for Multiple Distributed Assets in Maritime Applica-	
	tions, ACM SIGMOD/PODS International Conference on Management of Data (Philadelphia, PA, June 2022)	
	 Guided Task Planning Under Complex Constraints, 38th IEEE International Conference on Data Engineering (Virtual, May 2022) 	
	• Multi-Session Diversity to Improve User Satisfaction in Web Applications, 30th The Web Conference (Virtual, April 2021)	
Workshop Presentation	• Human-AI Complex Task Planning, CIKM Workshop on Human-in-the-loop Data Curation (Atlanta, GA, October 2022)	
Poster Presentations	• e-Poster Presentation, NAI-NJIT Workshop on Sustainable Societies: Data Revolution (October 2022)	
	• <i>e-Poster Presentation</i> , 2019 NJIT Research Institutes, Centers and Laboratories Showcase and President's Forum	
Invited Talk	• NJIT Department of Mathematical Sciences Optimization and Machine Learning Workshops (December 1, 2022).	
	• NJIT Department of Mathematical Sciences Optimization and Machine Learning Talks (April 7, 2022).	
Services	 Student Member of Committee of Faculty Ascension for NJIT Strategic Plan 2030. 2023 HILDA (Human-In-the-Loop Data Analytics) Mentor. 2023 IEEE Transactions on Mobile Computing Reviewer. 2023 Information Systems Reviewer. 2023 SIGMOD Availability Reviewer. 2022 SIGKDD Conference on Knowledge Discovery and Data Mining External Reviewer. 	

Research Mentoring	 Undergrad Students: Eden Dubrovsky (Sep 2021 - May 2023) Michael Tuma (May 2021 - Sep 2021) Paras Sakharkar (Sep 2019 - May 2022)
	• Master Students:
	– Deep Ketan Mistry (June 2022 - July 2023)
	– Chandresh Sikarwar (Dec 2021 - May 2022)
	– Kishore Prabahar (Jan 2021 - Sep 2021)
	– Baljinder Smagh (Jun 2020 - Dec 2020)
	– Sathyanarayanan Somasunder (Feb 2020 - Sep 2020)
	– Suraj Jha (Jan 2020 - May 2020)
Graduate Coursework	 Advanced Operations Research I. Applications of Parallel Computing. Computability and Complexity. Convex Optimization. Data Management Systems Design. Data Mining. Data Structure and Algorithms. Introduction to Big Data. Nonlinear Optimization. Numerical Methods in Linear Algebra. Operating Systems Design. Optimization over Second Order Cones and Positive Semi-definite Matrices.

References

- Dr. Senjuti Basu Roy, Associate Professor of Computer Science
 - **1** New Jersey Institute of Technology
 - ${\color{red}{\varsigma}}\ +1\ (973)\ 596\text{--}3662$
 - \boxdot senjutib@njit.edu
- Dr. Sihem Amer-Yahia, Research Director
 - **m** CNRS, University of Grenoble Alpes
 - \checkmark +33 45 7 42 14 44
 - \boxdot sihem.amer-yahia@univ-grenoble-alpes.fr
- - \mathbf{L} +1 (860) 486-2890
 - 🖂 krishna.pattipati@uconn.edu