

## Soumyakant Padhee (Soum)

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CONTACT INFORMATION	21 Worthington St., Unit-2, Boston, Massachusetts, 02120, USA	+1-(608) 628-9117 <a href="mailto:padhee.s@northeastern.edu">padhee.s@northeastern.edu</a> <a href="http://www.soumyakantpadhee.com">www.soumyakantpadhee.com</a>
EDUCATION	<b>Northeastern University</b> Ph.D. Candidate, Industrial Engineering (expected July 2023)  Dissertation Topic: Dynamics of Innovation in Eng. design teams: Complex Network Approach. Committee: Babak Heydari (Advisor), Samina Karim, Yingzi Lin, Tucker Marion  <b>University of Wisconsin-Madison</b> May 2019 M.S. (Business, Operations Management)  <b>RWTH Aachen University, Germany -</b> Mar. 2015 M.S. (Production Systems Engg.)  <b>Veer Surendra Sai University of Technology (UCE), India</b> May 2010 Bachelor of Technology (Manufacturing Sc.)	
RESEARCH INTERESTS	Modeling Socio-Technical Systems, Innovation, Organizational Design, Systems Engineering, Computational Social Science, Game Theory, Business Analytics, Supply Chain & Operations Management.	
HONORS AND AWARDS	College of Engineering Graduate Teaching Award 2022 Dept. of Mechanical & Industrial Engg. Engineering-as-Art Award 2021 Henry C. Naiman Outstanding Graduate Student Teaching Award, 2018 Wisconsin School of Business 2016–2019 School of Business Scholarship, University of Wisconsin-Madison Best of Class Scholarship & named in Dean’s list for outstanding academic achievement, RWTH Aachen University 2015	
CONFERENCE PAPER PRESENTATIONS	<i>Strategic Management Society (SMS) 42nd Annual Conference in London (September 2022)-</i> ”Core or Periphery: Where Should Firms Locate Exploring Innovators? Exploring With an NK Model” with B. Heydari, S. Chattopadhyay, <b>S. Padhee</b> , S. Karim. (peer-reviewed oral presentation. acceptance < 15-20%)  <i>The Council of Engineering Systems Universities (CESUN) at Eighth International Engineering Systems Symposium</i> , Charlottesville. (October 2021) -“Innovation Flow in Engineering System Design Teams: Core and Periphery and the Role of Complexity”. (peer-reviewed oral presentation. acceptance < 20-25%)  <i>Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting</i> , Virtual. (November 2020) -“Evolution of Innovation Networks at Different Stages of Technology Life cycle”.	
PAPERS & PUBLICATIONS	B. Heydari, S. Chattopadhyay, <b>S. Padhee</b> , S. Karim. <i>Core or Periphery: Examining where to allocate exploring inventors and the impact on breakthrough innovation.</i> (under review at Management Science)	

PAPER PUBLICATIONS CONT.	<b>S. Padhee</b> , N. Lore, B. Heydari. <i>Evolution of Design Teams throughout Industry Life Cycle: Interplay of Innovation and Complexity</i> . (under review at Systems Engineering Journal, Wiley)	
	<b>S. Padhee</b> , B. Heydari. <i>Identifying Evolution of Innovation Networks at Different Stages of Technology Life Cycle: Evidence from Patent-Citation Networks</i> . (submitted at Journal of Engineering Design)	
	B. Heydari, Y. Bart, D.T. O' Brain, <b>S. Padhee</b> . <i>Short-term Rentals Improve Locals' Experience of Neighborhood Eateries: Evidence from the impact of Airbnb on Restaurants Quality in Boston</i> . (preparing Draft Manuscript for submission)	
	<b>S. Padhee</b> , S. Pani, S.S. Mahapatra (2012). <i>Parametric Study on laser drilling of Al/SiCp metal matrix composite</i> , Proceedings of Institution of Mechanical Engineers, Journal of Engineering manufacture March, Vol 226, Issue 1,2012.	
	<b>S. Padhee</b> , N. Nayak, S. Panda, P. Dhal, S.S. Mahapatra (2012). <i>Multi-objective Parametric Optimization of Powder Mixed Electro-discharge Machining using Response Surface Methodology and Non- Sorted Genetic Algorithm</i> , Sadhana - Journal of Indian Academy Of Science, Vol.37, Part 2.	
	G.S. Beriha, B. Patnaik, S.S. Mahapatra, <b>S. Padhee</b> (2012). <i>Assessment of safety performance in Indian industries using fuzzy approach</i> , Expert System with applications, Vol 39, Issue 3,2012.	
TEACHING EXPERIENCE	H.B. Sahu, <b>S. Padhee</b> , S. Pani, S.S. Mahapatra (2011). <i>Prediction of spontaneous heating susceptibility of Indian coals using fuzzy logic and artificial neural network model</i> , Expert System with Applications, Vol 38, Issue 3,2011.	
	S. Panda, <b>S. Padhee</b> , A. K. Sood, S.S. Mahapatra (2009). <i>Optimization of Fused Deposition Modeling (FDM) Process Parameters Using Bacterial Foraging Technique</i> , Intelligent Information Management, Vol 1, No. 2.	
	<b>Northeastern University</b> .	
	Teaching Assistant (Fall-Spring), Economic Decision Making	2021–2023
	Teaching Assistant (Spring), Platforms and Sharing Economics	2019–2020
	Teaching Assistant (Fall), Economic Decision Making	2019–2020
PROFESSIONAL EXPERIENCE	<b>Wisconsin School of Business</b> .	
	Teaching Assistant (Fall-Spring), Business Analytics II	2016–2019
	1600 students(total), 5 sections	
	Avg. teaching evaluation 4.28, 4.58, 4.20/5	
	<i>Distinguished Teaching Award, 2017, 2018 &amp; 2019</i>	
	<b>Research Assistant, (Hardware-in-Loop ECU Testing for Daimler Truck AG)</b>	
PROFESSIONAL EXPERIENCE	FEV GmbH, Aachen, Germany	2015
	<b>Research Assistant</b>	2014–2015
	Fraunhofer-Gesellschaft, Aachen, Germany.	
	<b>Assistant Manager (Vendor Development &amp; Process Quality)</b>	2012–2013
	New Engines & Power Trains CVBU, Tatanagar, Tata Motors, India.	
	<b>Assistant Manager (Head Manufacturing's Office)</b>	2010–2012
PROFESSIONAL EXPERIENCE	Production Planning Projects & Assembly Line Optimization	
	Commercial Vehicle Business Unit, Tatanagar, Tata Motors, India	

CERTIFICATIONS	<b>Six Sigma Black Belt Certification</b> , American Society of Quality, USA	
LANGUAGES	<b>English</b> (Fluent), <b>Hindi</b> (Native), <b>Odia</b> (Native), <b>German</b> (Working Proficiency)	
TECHNICAL SKILLS	R, Python, LaTeX, MATLAB, Otree, Gurobi	
MODELING SKILLS AND INTERESTS	Agent-based Simulations, Stochastic Processes, Econometric Models, Bayesian Statistics, Large Scale Optimization, Deep learning, Reinforcement learning	
SELECTED GRADUATE COURSEWORK	Micro-Economics Series, Game Theory, Econometric Theory, Industrial Organization Theory, Risk Analysis & Decision Science, Stochastic Modelling Techniques, Optimization Series (Linear, Non-linear, Integer, Dynamic, Network), Machine Learning, Supply Chain & Inventory Control, Experimental Game Designing, Network & Graph Theory.	
REFERENCES	<p><b>Babak Heydari (Advisor)</b> Associate Professor, Mech. &amp; Industrial Engg. MAGICS Lab &amp; Network Science Institute Northeastern University b.heydari@northeastern.edu</p> <p><b>Samina Karim</b> Professor, Entrepreneurship &amp; Innovation D'Amore-McKim School of Business Northeastern University samina@northeastern.edu</p> <p><b>Ozlem Ergun</b> Professor, Mech. &amp; Industrial Engg. Northeastern University o.ergun@northeastern.edu</p>	<p><b>Yakov Bart</b> Associate Professor of Marketing D'Amore-McKim School of Business Northeastern University y.bart@northeastern.edu</p>