

Soumyakant Padhee (Soum)

CONTACT INFORMATION	21 Worthington St., Unit-2, Boston, Massachusetts, 02120, USA	+1-(608) 628-9117 padhee.s@northeastern.edu www.soumyakantpadhee.com
EDUCATION	Northeastern University Ph.D. Candidate, Industrial Engineering Dissertation Topic: Dynamics of Innovation in Eng. design teams: Complex Network Approach. Committee: Babak Heydari (Advisor), Samina Karim, Yingzi Lin, Tucker Marion University of Wisconsin-Madison M.S. (Business, Operations Management) RWTH Aachen University, Germany - M.S. (Production Systems Engg.) Veer Surendra Sai University of Technology (UCE), India Bachelor of Technology (Manufacturing Sc.)	(expected July 2023) May 2019 Mar. 2015 May 2010
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 Dept. of Mechanical & Industrial Engg. Engineering-as-Art Award Henry C. Naiman Outstanding Graduate Student Teaching Award, Wisconsin School of Business School of Business Scholarship, University of Wisconsin-Madison Best of Class Scholarship & named in Dean's list for outstanding academic achievement, RWTH Aachen University	2022 2021 2018 2016–2019 2015
UNDER REVIEW WORK	S. Padhee , N. Lore, B. Heydari. <i>Evolution of Design Teams throughout Industry Life Cycle: Interplay of Innovation and Complexity</i> . (Preprint-Accepted at Systems Engineering Journal, Wiley) S. Padhee , B. Heydari. <i>Identifying Evolution of Innovation Networks at Different Stages of Technology Life Cycle: Evidence from Patent-Citation Networks</i> . (Review & Resubmit at Journal of Engineering Design, Taylor & Francis) B. Heydari, S. Chattopadhyay, S. Padhee , S. Karim. <i>Core or Periphery: Examining where to allocate exploring inventors and the impact on breakthrough innovation</i> . (Submitting soon at Strategic Management Journal)	
WORKING PAPER	B. Heydari, Y. Bart, D.T. O' Brain, S. Padhee . <i>Short-term Rentals Improve Locals' Experience of Neighborhood Eateries Evidence from the impact of Airbnb on Restaurants Quality in Boston</i> . (preparing Manuscript for submission) S. Padhee , B. Heydari. <i>When the going gets tough, the tough get together: Experimental study of affinity for team collaboration under task complexity</i> . (preparing Manuscript for submission)	

CONFERENCE PAPER PRESENTATIONS	<p><i>Strategic Management Society (SMS) 42nd Annual Conference in London (September 2022)- "Core or Periphery: Where Should Firms Locate Exploring Innovators? Exploring With an NK Model" with B. Heydari, S. Chattopadhyay, S. Padhee, S. Karim. (peer-reviewed)</i></p> <p><i>The Council of Engineering Systems Universities (CESUN) at Eighth International Engineering Systems Symposium, Charlottesville. (October 2021) - "Innovation Flow in Engineering System Design Teams: Core and Periphery and the Role of Complexity". (peer-reviewed)</i></p> <p><i>Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting, Virtual. (November 2020) - "Evolution of Innovation Networks at Different Stages of Technology Life cycle".</i></p>																		
TEACHING EXPERIENCE	<p>Northeastern University.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">Teaching Assistant (Fall-Spring), Economic Decision Making</td> <td style="text-align: right;">2021–2023</td> </tr> <tr> <td>Teaching Assistant (Spring), Platforms and Sharing Economics</td> <td style="text-align: right;">2019–2020</td> </tr> <tr> <td>Teaching Assistant (Fall), Economic Decision Making</td> <td style="text-align: right;">2019–2020</td> </tr> </table> <p>Wisconsin School of Business.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">Teaching Assistant (Fall-Spring), Business Analytics II</td> <td style="text-align: right;">2016–2019</td> </tr> <tr> <td colspan="2">1600 students(total), 5 sections</td> </tr> <tr> <td colspan="2">Avg. teaching evaluation 4.28, 4.58, 4.20/5</td> </tr> <tr> <td colspan="2"><i>Distinguished Teaching Award, 2017, 2018 & 2019</i></td> </tr> </table>	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	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 & 2019</i>					
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CERTIFICATIONS	Six Sigma Black Belt Certification , American Society of Quality, USA																		
LANGUAGES	English (Fluent), Hindi (Native), Odia (Native), German (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.																		

PUBLICATIONS
FROM
ANOTHER AVATAR

S. Padhee, S. Pani, S.S. Mahapatra (2012). *Parametric Study on laser drilling of Al/SiCp metal matrix composite*, Proceedings of Institution of Mechanical Engineers, Journal of Engineering manufacture March, Vol 226, Issue 1,2012.

S. Padhee, N. Nayak, S. Panda, P. Dhal, S.S. Mahapatra (2012). *Multi-objective Parametric Optimization of Powder Mixed Electro-discharge Machining using Response Surface Methodology and Non- Sorted Genetic Algorithm*, Sadhana - Journal of Indian Academy Of Science, Vol.37, Part 2.

G.S. Beriha, B. Patnaik, S.S. Mahapatra, **S. Padhee** (2012). *Assessment of safety performance in Indian industries using fuzzy approach*, Expert System with applications, Vol 39, Issue 3,2012.

H.B. Sahu, **S. Padhee**, S. Pani, S.S. Mahapatra (2011). *Prediction of spontaneous heating susceptibility of Indian coals using fuzzy logic and artificial neural network model*, Expert System with Applications, Vol 38, Issue 3,2011.

S. Panda, **S. Padhee**, A. K. Sood, S.S. Mahapatra (2009). *Optimization of Fused Deposition Modeling (FDM) Process Parameters Using Bacterial Foraging Technique*, Intelligent Information Management, Vol 1, No. 2.

REFERENCES

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