

SHANKAR PRAWESH

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RESEARCH INTERESTS

Statistical Learning, Social Media, Agent Based Simulation

WORK EXPERIENCE

Assistant Professor, Industrial and Management Engineering (IME)

IIT, Kanpur

since 2014

Research Associate, Center for Complexity in Business

Robert H. Smith School of Business, University of Maryland, College Park

2013-2014

EDUCATION

University of South Florida, College of Business

2009-2013

Dissertation Title: Agent Based Modeling in Business

Ph.D. in Management Information Systems

Indian Institute of Technology, Kanpur

M. Sc. (Integrated-5 year program) in Mathematics and Scientific Computing

2004-2009

JOURNAL PUBLICATIONS

- Shankar Prawesh, Manish Agrawal, and Kaushal Chari (2016). Effects of Project Owner's Title on the Financial Impacts of IT Systems Integration Outsourcing Projects, **Information Systems Management**, 33(3), 199-211. <https://doi.org/10.1080/10580530.2016.1188536>
- Shankar Prawesh and Balaji Padmanabhan (2014). The "Most Popular News" Recommender: Count Amplification and Manipulation Resistance. **Information Systems Research**, 25(3), 569–589. <http://dx.doi.org/10.1287/isre.2014.0529>

SPONSORED RESEARCH PROJECTS

- Machine learning algorithms for large-scale job-shop scheduling
– with Mitsubishi Heavy Industries, Ltd. (May 2018 – June 2019, role: PI).
- High-speed optimization algorithm for large-scale job-shop scheduling
– with Mitsubishi Heavy Industries, Ltd. (May 2016 – June 2017, role: co-PI).

MANUSCRIPTS UNDER REVIEW

- Industry Norms as Predictors of IT Outsourcing Behaviors (with Kaushal Chari, and Manish Agrawal).
- News Recommendations on Platforms in a Big Data World: The Role of Feedback Models in Guiding Emergent Outcomes (with Balaji Padmanabhan)
- Big Network Analysis for Influence Identification on Social Networks (with Bill Rand)

HIGHLY REFEREED CONFERENCE PROCEEDINGS

- Shankar Prawesh and Balaji Padmanabhan, "Multi-Objective News Recommender Systems", **WITS 2015** (workshop on Information Technologies and Systems), Dallas, December 2015.
- Shankar Prawesh and Balaji Padmanabhan, "News Recommender Systems with Feedback", **ICIS 2012** (International Conference on Information Systems), Orlando, December 2012.

- Shankar Prawesh and Balaji Padmanabhan, “Manipulation Resistance in Feedback Models of Top-N Recommenders”, **WITS 2012**, Orlando, December 2012.
(Best paper award, runner-up)
- Shankar Prawesh and Balaji Padmanabhan, “Probabilistic News Recommender Systems with Feedback”, **RecSys 2012** (ACM Conference on Recommender Systems), Dublin, Ireland, September 2012.
- Shankar Prawesh and Balaji Padmanabhan, “Manipulation in Top-N News Recommender Systems”, **WITS 2011**, Shanghai, China, December 2011.
- Shankar Prawesh and Balaji Padmanabhan, “The Top-N News Recommender: Count Distortion and Manipulation Resistance”, **RecSys 2011**, ACM Conference on Recommender Systems, Chicago, October 2011.

OTHER REFEREED CONFERENCE PRESENTATIONS

- Simulation Based Crowd Management: A Design Science Perspective (**WITS Feeder 2017**, organized by Indian School of Business)
- Online News Recommendation as a Complex Adaptive System (**DIGITS 2018**, organized by Robert H. Smith School of Business, and BIMTECH)
- Shankar Prawesh and Balaji Padmanabhan, “Analysis of Probabilistic News Recommender Systems”, **AMCIS 2012**, Americas Conference on Information Systems, Seattle, Washington, August 2012.

INVITED TALKS

- “Dynamics of Complex Systems (DCS 2019)”, ICTS-TIFR Bengaluru (May 2019)
- “Modeling Online News as Complex Adaptive Systems”, (August 2018, Department of Management Studies, IIT Delhi)
- “Social Media Analytics”, (August 2015, Intel High Performance Computing Workshop, IIT Kanpur)
- “Feedback Models in Top-N News Recommender Systems”, INFORMS 2012, session- Recommender Systems, Phoenix, Arizona, October 2012, (with B. Padmanabhan).
- “Manipulation Resistant New Recommender Systems with Feedback”, INFORMS 2012, session- Personalized Recommender Systems, Phoenix, Arizona, October 2012, (with B. Padmanabhan).
- Santa Clara, California, June 2012 (Organized by IIT Kanpur Foundation).
- “Manipulation in Top-N News Recommender Systems”, INFORMS 2011, session- Artificial Intelligence, Charlotte, North Carolina, November 2011 (with B. Padmanabhan).
- “Count Amplification in Top-N News Recommender Systems”, INFORMS 2011, session- Information Systems, Charlotte, North Carolina, November 2011 (with B. Padmanabhan).

AWARDS AND HONOURS

- College of Business Outstanding Doctoral Student Research Award 2012
- University of South Florida, Graduate Fellowship 2009 – 2010

REFREE ACTIVITIES

- **Journals:** MIS Quarterly, INFORMS Journal on Computing, IIMB Management Review, IEEE Transactions on Engineering Management.
- **Conferences:** ICDM (IEEE International Conference on Data Mining) 2014, WITS 2014-2015, ICIS 2012-2018

PROGRAM COMMITTEE

- **EAD** organized by MDI Gurgaon (Conference on Enterprise Architecture in the Digital Era) 2019
- **DESRIST** organized by IIT Madras (Design Science Research in Information Systems and Technology) 2018
- **DIGITS** organized by Robert H. Smith School of Business and BIMTECH (Digital Innovations, Transformation, and Society Conference) 2018

PHD THESIS SUPERVISION

- Fairness in news recommendation (Somnath Bhattacharya, **status:** completed state of the art seminar)
- Text analysis in finance: word lists, stock prices, and market efficiency (Amit Trivedi, **status:** completed state of the art seminar)
- Analysis of operation efficiency using data envelopment analysis (DEA) in transportation and information systems (Shivam Kushwaha, **status:** completed state of the art seminar)

RECENT MASTER'S THESIS SUPERVISION

- Job Shop Scheduling using Reinforcement Learning (Ankush Ojha, 2019)
- Dynamic Portfolio Management using Multi-armed Bandit (Abhishek Mishra, 2019)
- Bayesian Approach for Selected Problems from Business Analytics (Durga Kant Gupta, 2018)
- Job Shop Scheduling using Artificial Neural Network (Subh Lakshmi Baranwal, 2017)
- Application of machine learning in job shop scheduling (Rusheel Shukla, 2017)

ADMINISTRATIVE RESPONSIBILITIES

- **Institute level:** Warden, Hall-12 (December 2016-till now)
- **Department level:** MTech. admission coordinator – 2015, 2016, Ph.D. admission coordinator – 2017, departmental space committee – 2018.