

Amita Singh
Doctoral Candidate at KTH
Royal Institute of Technology

Email: amitas [at] kth.se
Homepage: amitasingh.in

Work & Education

2019 – now	Doctoral Candidate at KTH Royal Institute of Technology, Sweden
2018 – 2019	Research Engineer at KTH Royal Institute of Technology, Sweden
2016 – 2017	Master Thesis at DFKI (German Research Center For Artificial Intelligence), Germany
2015 – 2016	Intern at John Deere Werke Mannheim, Germany
2014 – 2017	M.Sc. in Commercial Vehicle Technology at TU Kaiserslautern; GPA:1.5/5
2011 – 2014	Senior Software Engineer at Tata Motors (Technologies), India
2010 – 2011	Process Engineer at Tata Motors (Technologies), India
2009 – 2009	Intern at Hindustan Aeronautics Limited Lucknow, India
2008 – 2008	Intern at Indian Institute of Management Lucknow, India
2006 – 2010	B.Tech. in Mechanical Engg. from Bundelkhand Institute of Technology (BIET) Jhansi, India

Honors and Awards

2018	Ubiquitous Software and Security session chair at UBICOMM
2016	DAAD STIBET Excellence Scholarship at TU Kaiserslautern
2015	Third place in a competition on Energy Management Strategies for Hybrid Electric Vehicles using MATLAB/Simulink
2014	One of the ten candidates selected by German Society for International Cooperation (GIZ) from India for internship in Germany
2012	Project of the Quarter 2012 – 13 (Tata Motors)

Current Interests

Production Logistics, Participatory Modelling, Simulation, Machine Learning

Publications

- **A. Singh**, E. Fores-Garcia, Y. Jeong, M. Wiktorsson *A Rubric for Implementing Explainable AI in Production Logistics* **Oral**, Proceedings of the Advances in Production Management Systems 2022
- **A. Singh**, J. Baalsrud Hauge, S.E. Birkie, Y. Jeong, M. Wiktorsson *Simulation-based participatory modelling in port city logistics: A case study from Turku*, International Journal of Logistics Management (Under Review).
- **A. Singh**, J. Baalsrud Hauge, M. Wiktorsson, U. Upadhyay *Optimizing local and global objectives for sustainable mobility in urban areas*, Journal of Urban Mobility
- **A. Singh**, J. Baalsrud Hauge, M. Wiktorsson *Simulation-Based Participatory Modelling in Urban and Production Logistics: A Review on Advances and Trends*, Sustainability
- **A. Singh**, M. Wiktorsson, J. Baalsrud Hauge, S.E. Birkie *A Simulation-Based Participatory Modelling Framework For Stakeholder Involvement In Urban Logistics*, Proceedings of the Winter Simulation Conference 2021
- **A. Singh**, M. Wiktorsson, J. Baalsrud Hauge *Trends In Machine Learning To Solve Problems In Logistics*, Procedia CIRP 2021

- **A. Singh**, J. Baalsrud Hauge, M. Wiktorsson *A Tool To Facilitate Participatory Modeling Of Urban Logistics* **Oral**, Proceedings of the International Symposium on Logistics 2021
- **A. Singh**, Y. Jeong, J. Baalsrud Hauge, S.E. Birkie *Urban production logistics planning considering environmental sustainability perspectives: Turku city case* **Oral**, Proceedings of the International Symposium on Logistics 2021
- Y. Jeong, **A. Singh**, M. Zafarzadeh, M. Wiktorsson, J. Baalsrud Hauge *Data-driven manufacturing simulation: Towards a CPS-based approach* Proceedings of the Swedish Production Symposium 2020.
- **A. Singh**, F. Quint, P. Bertram, M. Ruskowski *A Framework for Semantic Description and Interoperability across Cyber-Physical Systems*, International Journal On Advances In Intelligent Systems IARIA 2019.
- **A. Singh**, F. Quint, P. Bertram, M. Ruskowski *Towards Modular and Adaptive Assistance Systems for Manual Assembly: A Semantic Description and Interoperability Framework* **Oral**, UBICOMM 2018.

Interests & Activities

- Teaching assistant at KTH Royal Institute of Technology
- Reading and travelling