

Lei LIU

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ACADEMIC EXPERIENCE	Marie Curie Research Fellow • Politecnico di Milano, Mechanical Engineering Department, Milano, Italy	Feb., 2020-Jan., 2023
EDUCATION	Ph.D. in Mechanical Engineering • Politecnico di Milano, Milano, Italy • Advisor: Prof. Marcello Urgo • Thesis: Risk-based Scheduling in the Re-manufacturing of Turbine Blades	Jan., 2023(Expected)
	M.S. in Logistics Engineering • Tsinghua University, Beijing, China • Advisor: Prof. Canrong Zhang • Thesis: A Branch and Bound Algorithm for the Robust Parallel Machine Scheduling with Sequence Dependent Set-up Time	July, 2017
	Exchange student in Industrial Engineering • National Tsinghua University, Hsinchu, Taiwan	2015.09-2016.03
	B.S. in Information Management and System • Northeast Forestry University, Harbin, China	July, 2013
AWARDS	Marie Curie Fellowship , 2020-2023 Finalist, AITeM Young Researcher Award , 2021	
PUBLICATIONS	Lei Liu , Marcello Urgo, A branch-and-bound approach for the two-machine flow shop stochastic scheduling problem with phase-type distributed processing times to minimize the value-at-risk, <i>under review at Annals of Operations Research</i> . Lei Liu , Marcello Urgo, 2022. A robust scheduling framework for re-manufacturing activities of turbine blades, <i>Applied Sciences</i> , 12(6):3034. Lei Liu , Marcello Urgo, 2022. Scheduling Remanufacturing Activities for the Repair of Turbine Blades: An Approximate Branch and Bound Approach to Minimize a Risk Measure. In <i>Selected Topics in Manufacturing</i> (pp. 41-59). Springer, Cham. • Finalist, AITeM Young Researcher Award 2021	
CONFERENCE TALKS	"Scheduling Re-manufacturing Activities for the Repair of Turbine Blades: An Approximate Branch and Bound Approach to Minimize a Risk Measure" • XV AITeM Conference (Italian Association of Manufacturing Technology) Milano, Italy	2022
	"A branch-and-bound approach for the two-machine flow shop stochastic scheduling problem to minimize the value-at-risk" • 31st European Conference on Operational Research, Athens, Greece	2021
	"A Branch and Bound Algorithm for the Robust Parallel Machine Scheduling with Sequence Dependent Set-up Time" • Cross-Strait Tsinghua University Doctoral Forum, Shenzhen, China	2017
TEACHING	Mentor , Smart Manufacturing Lab • 2020-2021, 2021-2022	

OTHER PROFESSIONAL EXPERIENCES	Algorithm Engineer	2018-2019
	<ul style="list-style-type: none"> • ZheJiang Transportation Big Data Center, Hangzhou, China 	
	Software Engineer	2017-2018
	<ul style="list-style-type: none"> • Hundsun Technologies Inc. Hangzhou, China 	
	Data Intern	2015.01
	<ul style="list-style-type: none"> • KPMG, ShenZhen, China 	
COMPUTER SKILLS	Languages: C++, Python, Java, Latex Software and tools: Gurobi, Pyomo	
REFERENCES	Marcello Urgo Assitant Professor Mechanical Engineering Department Politecnico di Milano marcello.urgo@polimi.it	
	Canrong Zhang Professor Research Center for Modern Logistics Shenzhen International Graduate School Tsinghua University crzhang@sz.tsinghua.edu.cn	