# RUIJIU MAO (毛瑞九)





## **EDUCATION**

Master, Industrial Engineering, Purdue University 08/2016-- 05/2020 BS, Mathematics and Applied Mathematics, Fudan University 09/2011-- 07/2015

## EMPLOYMENT EXPERIENCE

JD.com Algorithm Engineer

09/2019-- 01/2021

Customized Bundling with Heterogeneous Customers for Information Goods in E-commerce Supervised by Dr. Jinfeng Yi, and Prof. Chung Piaw Teo

**JD.com** Algorithm Engineer (internship) Deloitte Touche Tohmatsu CPA Ltd.(Beijing Branch) Auditing (internship)

06/2017-- 08/2017 07/2014-- 08/2014

## PUBLICATION

- R. Mao, V. Aggarwal, NPSCS: Non-preemptive Stochastic Coflow Scheduling with Time-Indexed LP Relaxation, IEEE Transactions on Network and Service Management, 2021
- V. Aggarwal, and R. Mao, Preemptive scheduling for approximate computing on heterogeneous machines: Tradeoff between weighted accuracy and makespan. Information Processing Letters, 2020
- B. Du, R. Mao, N. Kong, D. Sun, Distributed Data Fusion for On-Scene Biological Signal Sensing with a Multi-UAV System, IEEE Transactions on Control of Network Systems, 2020
- R. Mao, B. Du, D. Sun, N. Kong, Optimizing a UAV-based Emergency Medical Service Network for Trauma Injury Patients, In Proceedings of the 15th IEEE International Conference on Automation Science and Engineering, Vancouver, BC, Canada, August 22-26, 2019
- R. Mao, V. Aggarwal, and M. Chiang, Stochastic Co-flow scheduling with Time-Indexed Constraints on Related Machines, In Proceedings of the 8th International Workshop on Big Data and Cloud Performance (DCPerf'18), Co-located with the IEEE INFOCOM 2018, Honolulu, HI, USA, April 15-19, 2018

#### **PRESENTATION**

- Contract Design with Information Asymmetry in Emergency Stroke Care Systems, 2019 INFORMS Annual Meeting, Seattle, WA, USA, October 20-23, 2019
- Optimizing a UAV-based Emergency Medical Service Network for Trauma Injury Patients, 15th IEEE International Conference on Automation Science and Engineering, Vancouver, BC, Canada, August 22-26, 2019
- Optimizing a UAV-based Emergency Medical Service Network for Trauma Injury Patients, INFORMS Healthcare 2019 Conference, Cambridge, MA, USA, July 27-29, 2019
- Stochastic Co-flow scheduling with Time-Indexed Constraints on Related Machines, 2018 SIAM CSE Conference, Purdue University, West Lafayette, IN, USA, April 15, 2018

### AWARDS AND HONORS

TIVINDS III D HOTORS	
Second Place, 2019 IEGSO Research Symposium, Poster Session	04/2019
Excellent Students Awards of Beijing	03/2011

## **SERVICE**

President, Purdue Industrial Engineering Graduate Student Organization	05/2019 02/2020
Volunteer, Boiler-up program, Purdue University	09/2016 05/2017