

Haoyuan Zhang

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RESEARCH INTERESTS

Hierarchical Bayesian Models, Probabilistic Relational Models, Heuristic Algorithm, Safety and Reliability, Decision Making with Uncertainty.

EDUCATION

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| 2015 - Present | Queen Mary University of London, UK
Ph.D. in Computer Science <ul style="list-style-type: none">○ Thesis: Using Bayesian Networks and Complex Data to Optimize Infrastructure Maintenance in Railways○ Supervisors: Dr. William Marsh, Prof. Norman Fenton, Prof. Martin Neil |
| 2013 - 2014 | The University of Hong Kong, HK
M.Sc. in Industrial Engineering and Logistic Management <ul style="list-style-type: none">○ Thesis: Colour Petri Net – based Modelling for Integrated Process Planning and Scheduling (obtained highest grade among the department)○ Supervisor: Dr. Tak Nam, Wong |
| 2009 - 2013 | Jinan University, China
B.Sc. in Electronic Commerce <ul style="list-style-type: none">○ Thesis: Tourism Supply Chain Collaborative Demand Forecasting Model based on Colour Petri Net (awarded for the best undergraduate thesis of Jinan University)○ Supervisor: Dr. Hua, Bai |

PUBLICATIONS

- [1] **Haoyuan Zhang**, Kaijian Li, Tak Nam Wong, Luping Zhang and Asheem Shrestha, 2017. A Colored Petri Net Approach to Aid Integrate Process Planning and Scheduling Optimized by Hybrid Genetic Algorithm and Simulated Annealing. *Submitted to Expert Systems with Application*.

- [2] **Haoyuan Zhang**, D. William R. Marsh, 2017. Generic Bayesian Network Models for Making Maintenance Decisions from Available Data and Expert Knowledge. *Journal of Risk and Reliability*(Accepted).
- [3] Hua Bai, **Haoyuan Zhang**, 2016. CPN Based Modelling of Tourism Demand Forecasting. *International Journal of Business and Management*, 12(1), 28.
- [4] **Haoyuan Zhang**, D. William R. Marsh, 2016. Bayesian Network Models for Making Maintenance Decisions from Data and Expert Judgment. *European Safety and Reliability Conference 2016 (ESREL 2016)*, pp.1056-1063.
- [5] **Haoyuan Zhang**, Hua Bai, 2016. Simulation of Tourism Supply Chain Collaborative Demand Forecast. *International Conference on Applied Social Science Research (ICASSR 2015)*, pp.659-662.

ACADEMIC EXPERIENCE

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| 2015 - 2017 | Participant <ul style="list-style-type: none"> ○ Rail Research UK Association (RRUKA) Annual Conference 2015, 2016, 2017 |
| 2016 - 2017 | Teaching Assistant <ul style="list-style-type: none"> ○ ECS650/ECS789 - Database Systems, ECS401U - Procedural Programming (Java) |
| 2016 - 2017 | Demonstrator <ul style="list-style-type: none"> ○ EBU6606 - Product Development, EBU6402 - Enterprise Management |
| 2016 | Invited Participant <ul style="list-style-type: none"> ○ Workshop: The nature of questions arising in court that can be addressed via probability and statistical methods (FOSW01) by Isaac Newton Institute, University of Cambridge |
| 2010 - 2013 | Teaching Assistant <ul style="list-style-type: none"> ○ Operations Research, Logistics Management, Supply Chain Management |

OTHER ACTIVITIES

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| 2016 - Present | Ph.D. Research Committee Representative <ul style="list-style-type: none"> ○ Represent Risk and Information Management Group of EECS, QMUL |
| 2014 - 2015 | Manager Trainee , Ligu Steel Group (HK) Limited <ul style="list-style-type: none"> ○ Worked on commodity shipping, trading and financing |