

LINGDONG KONG

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 N4-B1c-17, Nanyang Avenue, Singapore (639798)

🎓 EDUCATION

Nanyang Technological University, Singapore

M.Eng. in **Computer Science & Engineering** within School of Computer Science & Engineering Jul 2020 – Jul 2022

- **Advisor:** Prof. [Hanwang Zhang](#)

M.Sc. in **Computer Control & Automation** within School of Electrical & Electronic Engineering Jul 2019 – Jul 2020

- **Thesis:** “Computational Imaging and Detection via Deep Learning”, **Advisor:** Prof. [Bihan Wen](#)
- **Major Courses:** *Computer Control Systems, Advanced Digital Signal Processing, Process Control, Neural & Fuzzy Systems, Genetic Algorithms & Machine Learning, Image Analysis & Pattern Recognition, Robotics & Intelligent Sensors, Systems Analysis*

South China University of Technology, Guangzhou, China

B.Eng. in **Intelligent Science & Technology** within School of Automation Science & Engineering Sep 2015 – Jun 2019

- **Thesis:** “Convergence and Robustness Analysis of Recurrent Neural Networks”, **Advisor:** Prof. [Zhijun Zhang](#)
- **Major Courses:** *Pattern Recognition, AI & Machine Learning, Image Processing & Machine Vision, Robotics, Brain-Computer Interface, Biomedical Signal Processing, Intelligent Information Processing, Optimization Theory, Data Analysis*
- **Honor:** National Scholarship of the Year 2017-2018, awarded by the Ministry of Education of China (Top 1% students)

National University of Singapore, Singapore

Exchange Student under **AI & Big Data Analysis** Programme Jan 2019

- **Project:** “Forecasting of New Stocking Keeping Units”, **Advisor:** Prof. [Andrew Lim](#)

📖 PUBLICATION

[\[Google Scholar\]](#)[\[GitHub\]](#)[\[LinkedIn\]](#)

- [J4] Z. Zhang, L. Zheng, Z. Chen, **L. Kong**, H. Karimi. “Mutual Collision Avoidance Scheme Synthesized by Neural Networks for Dual Redundant Robot Manipulators Executing Cooperative Tasks”, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2020 [\[Link\]](#)[\[PDF\]](#)
- [J3] Z. Zhang, **L. Kong**, L. Zheng, P. Zhang, X. Qu, B. Liao, Z. Yu. “Robustness Analysis of a Power Type Varying Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications”, *IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMC)*, 2019 [\[Link\]](#)[\[PDF\]](#)
- [J2] Z. Zhang*, **L. Kong***, L. Zheng. “Power-Type Varying Parameter RNN for Solving TVQP Problems: Design, Analysis and Applications”, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2019. [\[Link\]](#)[\[PDF\]](#)
- [J1] Z. Zhang, X. Deng, **L. Kong**, S. Li. “Circadian Rhythms Learning Network for Resisting Cognitive Periodic Noises of Time-Varying Dynamic Systems and Applications to Robots”, *IEEE Transactions on Cognitive and Developmental Systems (TCDS)*, 2019. [\[Link\]](#)[\[PDF\]](#)
- [C1] Z. Zhang*, **L. Kong***, Z. Yan, K. Chen, S. Li, X. Qu, N. Tan. “Comparisons among Six Numerical Methods for Solving Repetitive Motion Planning of Redundant Robot Manipulators”, *15th IEEE International Conference on Robotics and Biomimetics (ROBIO)*, 2018. [\[Link\]](#)[\[PDF\]](#)

👤 EXPERIENCE

Center for Brain Computer Interfaces & Brain Information Processing, Guangzhou, China

- Research Assistant within HRI Lab Oct 2016 – May 2019
- **Project:** “Analysis and Applications of the Varying-Parameter RNN”

China Eastern Airlines, Guangzhou, China

- Intern within Department of Marketing Aug 2018 – Oct 2018
- **Project:** “Data Analysis and Modeling on Flights of Guangzhou Baiyun International Airport”

🛠️ SKILLS

Language Skills: GRE: Verbal: 153, Quantitative: 166, Analytic Writing: 3.5; **IELTS:** Total: 7.0 (R: 7.5, L: 7.5, S: 6.5, W: 5.5)

Programming Skills: (Familiar with) Python 3, MATLAB, (Beginner in) CSS3, HTML5, Go, JavaScript, C