

Louis, Kong Lingming

+853-6395-4766 | louis.konglingming@connect.um.edu.mo | [Linkedin/LouisKong](https://www.linkedin.com/in/LouisKong) | [Github.com/LouisKong](https://github.com/LouisKong)

EDUCATION

University of Macau <i>Ph.D. Student of Electrical and Computer Engineering</i>	Taipa, Macau S.A.R. <i>Aug. 2020 – Present</i>
The Hong Kong University of Science and Technology <i>Master of Science in Mechanical Engineering</i>	Sai Kung, Hong Kong S.A.R. <i>Aug. 2019 – Jun. 2020</i>
National University of Singapore <i>Master of Science in Electrical and Computer Engineering</i>	Kent Ridge, Singapore <i>Aug. 2017 – Jun. 2018</i>
Shandong University <i>Bachelor of Engineering in Automation Engineering</i>	Jinan, China <i>Sept. 2012 – Jun. 2016</i>

PUBLICATIONS

- K. Lingming** and J. Hongsheng, "Analysis of Multiple Droop Control Strategies in DC Microgrid" 12th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), Nanjing, 2020
- K. Lingming** and H. Yufei, "Study on the control strategy for oscillatory stability enhancement using DFIG wind turbine system" 4th International Conference on Industrial Engineering and Applications, Nagoya, 2017

PROJECTS

Smart Energy and Transportation Nexus in UM <i>Matlab, Python, Gurobi, Tableau</i>	Aug. 2020 – Present
<ul style="list-style-type: none">Supervisors: Prof. Dai Ningyi and Prof. Zhang HongcaiStudy on the optimization methodology of dispatch and scheduling for Electric Vehicles (EV)Published a conference paper <i>Analysis of Multiple Droop Control Strategies in DC Microgrid</i>	
Bed Bug Control System in HKUST <i>Axure, Xmind, Sketchup</i>	Feb. 2020 – Jul. 2020
<ul style="list-style-type: none">Core members of technology group, developed the electrical and mechanical design and the room control systemConducted field research, competitive product analysis, target user analysis profit model analysisObtained 20,000 HKD financial support by EAF FUND from HKUST Entrepreneurship Center	
Active Control of a Model Gas-turbine Combustor in HKUST <i>Matlab</i>	Aug. 2019 – Jun. 2020
<ul style="list-style-type: none">Supervisors: Prof. Larry LiIdentified the validation of the low order model, i.e. Van Der Pol OscillatorSuppressed the thermoacoustic oscillations of velocity and pressure of combustor using active control methods	
Data-driven Identification and Control of Nonlinear Systems in NUS <i>Matlab</i>	Sept. 2017 – Jun. 2018
<ul style="list-style-type: none">Supervisors: Prof. Xiang ChengConducted the identification and control process through nonlinear auto-regressive moving average (NARMA) models and Neural Network (NN)Investigated the simulation improvements and more enhanced model-free predictive control methodology	
Study on the Smart Energy Utilization in CUHK <i>Matlab</i>	Sept. 2016 – Jun. 2017
<ul style="list-style-type: none">Supervisors: Prof. Xu JianbinStudy on the Stability Analysis and Smoothing Output of Wind Energy Utilization Based on Smart GridRealized several simulation models and compared the different structures between converter structuresPublished a conference paper <i>Study on the control strategy for oscillatory stability enhancement using DFIG wind turbine system</i> and passed the Research Proposal Module	
Study on Four-rotor Unmanned Aerial Vehicle in SDU <i>C, Pro/Engineer</i>	Jun. 2014 – Jun. 2015
<ul style="list-style-type: none">Supervisors: Prof. Sui QingmeiActed as leader for the National Undergraduate Innovation ProjectCompleted the magnetic field modulation of the rotors and realized the logistics transportation from close range	
Study on the Self-learning and Self-repairing circuit in NTHU <i>C, Pro/Engineer</i>	Jul. 2014 – Aug. 2014
<ul style="list-style-type: none">Supervisors: Prof. Tsai-Fu WuFocused on self-learning and self-repairing capability of circuit using 8051 SCM without adequate add-on circuitRealized the self-monitoring capability for the smart car circuit using the small-power electronic devices	

RESEARCH INTERESTS

Optimization Methodology, Electric Vehicles, Probabilistic Forecasting Technology, Smart Grids

SELECTED AWARDS AND HONORS

UM Macao Ph.D. Scholarship	Aug. 2020
Mingxi Charity Foundation Youth Scholarship	Nov. 2019
IEEE PES Day Best Project Award	May. 2018
CUHK Student Leader Training Scheme	Apr. 2017
Hong Kong Ph.D. Fellowship Scheme	Sept. 2016
Outstanding Graduates of Shandong Province and Shandong Univ.	Jun. 2016
National Second Prize of 14th Challenge Cup	Nov. 2015
First Class Scholarship of Shandong Univ.	Sept. 2015/14/13
Nanyang Technology Univ.-TF-LEaRN Scholarship Awardee	Aug. 2015
National Scholarship	Sept. 2014/13
NTHU-Liching Charity Foundation Summer Scholarship Awardee	Jul. 2014
Merit Student of Shandong Province	Jun. 2014
First Prize of Shandong Univ. Undergraduates Science and Technology Innovation Contest	May. 2014
Outstanding Volunteer for Blood Donation Campaign of Shandong Province	May. 2013

SKILLS

Coding: Matlab, C, Python, R, Gurobi
Texting: \LaTeX , MS Office, markdown
Others: Tableau, Video Editing Softwares
Spoken: Mandarin(native), English(fluent), Cantonese(intermediate)

PROFESSIONAL AND SOCIAL ACTIVITIES

<i>Volunteer</i> , National Kidney Foundation, Singapore	Aug. 2015 – Present
<i>Vice-president</i> , Mainland Students and Scholars Society of HKUST, Hong Kong S.A.R.	Aug. 2019 – Present
<i>Donor</i> , Blood Donation Campaign, P.R.C., Hong Kong S.A.R., Singapore	Sept. 2011 – Present
<i>Minister</i> , Chinese Scholars and Students Association in Singapore, Singapore	Aug. 2017 – Jun. 2018
<i>President</i> , Chinese Students and Scholars Association of CUHK, Hong Kong S.A.R.	Sept. 2016 – Jun. 2017
<i>Vice-President</i> , Student Union of School of Control Science and Engineering of SDU, P.R.C.	Sept. 2016 – Jun. 2017

WORK AND INTERNSHIP EXPERIENCE

<i>Intern Engineer</i> , Guangdong Bright Dream Robotics Co. Ltd., P.R.C.	Jun. 2020 – Sept. 2020
<i>Senior Process Engineer</i> , United Microelectronics Co. Ltd., Singapore	Oct. 2018 – Jun. 2019
<i>Research Assistant</i> , The Chinese University of Hong Kong, Hong Kong S.A.R.	Sept. 2016 – Jun. 2017
<i>Assistant Engineer</i> , Shanda Aotai Electric Co. Ltd., P.R.C.	Jan. 2016 – Jun. 2016