

**The Hong Kong Polytechnic University**  
**Supplementary application form for the Engineering Doctorate Programme**  
**2020/21, Semester 1**

I. Name of Applicant: \_\_\_\_\_

II. Intended Research Area (if you select more than one please indicate priority)

**Biomedical Engineering**

- \_\_\_\_\_ Medical Imaging, Bioinstrumentation and Biosensing  
 (Prof. Yongping Zheng, Dr Thomas M.H. Lee, Dr Lei Sun,  
 Dr Mo Yang)
- \_\_\_\_\_ Neuromusculoskeletal Science and Engineering  
 (Prof. Ming Zhang, Prof. Yongping Zheng, Dr Aaron K.L. Leung,  
 Dr M. S. Wong)
- \_\_\_\_\_ Prosthetics and Orthotics  
 (Dr Aaron K.L. Leung, Prof. Ming Zhang, Dr M. S. Wong)
- \_\_\_\_\_ Rehabilitation Engineering  
 (Prof. Ming Zhang, Dr Aaron K.L. Leung, Dr M. S. Wong)

**Computing**

- \_\_\_\_\_ Networking and Mobile Computing  
 (Prof. Jiannong Cao, Prof. Song Guo, Dr Bin Xiao, Dr Rocky Chang,  
 Dr Henry Chan)
- \_\_\_\_\_ Smart Enterprise Information Systems and Big Data Analytics  
 (Prof. Qing Li, Prof. Jiannong Cao, Prof. Song Guo, Dr Korris Chung,  
 Dr Ken Yiu)
- \_\_\_\_\_ Knowledge Engineering and Human Centered Computing  
 (Prof. Qin Lu, Prof. Jiannong Cao, Prof. Song Guo, Dr Yan Liu,  
 Dr Maggie Li, Dr Grace Ngai)
- \_\_\_\_\_ Smart Computing & Systems for Smart City, Healthcare and Green Energy  
 (Prof. Qing Li, Prof. Jane You, Prof. Jiannong Cao, Prof. Song Guo,  
 Dr Dan Wang)
- \_\_\_\_\_ Security and Privacy  
 (Prof. Lei Zhang, Prof. Jane You, Prof. Song Guo, Dr Rocky Chang,  
 Dr Allen Au, Dr Bin Xiao)
- \_\_\_\_\_ Computing Systems and Software Engineering  
 (Prof. Qing Li, Prof. Song Guo)

**Electrical Engineering**

- \_\_\_\_\_ Power Electronics  
 (Prof. Eric K.W. Cheng)
- \_\_\_\_\_ Power Systems  
 (Dr Kevin K.W. Chan)
- \_\_\_\_\_ Applied Electromagnetics  
 (Prof. W.N. Fu)
- \_\_\_\_\_ Electricity Utilization  
 (Prof. S.L. Ho)
- \_\_\_\_\_ Photonic Sensors  
 (Prof. Wei Jin)

- \_\_\_\_\_ Smart Materials and Devices  
(Prof. Derek S.W. Or)
- \_\_\_\_\_ Fiber Optics Sensors  
(Prof. H.Y. Tam)
- \_\_\_\_\_ Smart Grids  
(Prof. Z. Xu)
- \_\_\_\_\_ Micro-/Nano-Devices and Sensors  
(Dr A.P. Zhang)

#### Electronic and Information Engineering

- \_\_\_\_\_ Digital Signal Processing and Machine Intelligence  
(Prof. Kenneth Lam, Dr Y.H. Chan, Dr Z. Chi, Dr Bonnie Law,  
Dr Frank Leung, Dr Daniel Lun)
- \_\_\_\_\_ Power Electronics and Power Distribution  
(Prof. Michael Tse, Dr K.H. Loo)
- \_\_\_\_\_ Communication Systems and Optical Networks  
(Prof. Alex Wai, Prof. Lu Chao, Prof. Francis Lau, Dr Changyuan Yu)
- \_\_\_\_\_ Photonics and Optical Devices  
(Dr Changyuan Yu)

#### Industrial and Systems Engineering

- \_\_\_\_\_ Knowledge and Technology Management  
(Prof. Benny Cheung)
- \_\_\_\_\_ Logistics Systems Engineering  
(Prof. P. Ji)
- \_\_\_\_\_ Business Automation and E-Commerce Engineering  
(Prof. Benny Cheung)
- \_\_\_\_\_ Engineering Management and Supply Chain Management  
(Prof. Felix Chan)
- \_\_\_\_\_ Information Systems and Management Automation,  
Precision Motion Control and Product Engineering  
(Prof. K.L. Yung)
- \_\_\_\_\_ Product Design and Rapid Prototyping, Reverse Engineering,  
and Product Data Management  
(Dr K.M. Yu, Dr C.K. Kwong)
- \_\_\_\_\_ Advanced Materials Processing  
(Prof. K.C. Chan, Prof. C.Y. Tang)
- \_\_\_\_\_ Materials Technology, Laser Materials Processing  
(Prof. H.C. Man)
- \_\_\_\_\_ Ultra-precision Machining and Precision Metrology  
(Prof. Benny Cheung, Prof. Sandy To)
- \_\_\_\_\_ Advanced Manufacturing Technologies, Functional and Electronic  
Materials, Eco-Design and Green Manufacturing, Industrial  
Environmental Issues  
(Prof. Winco Yung)
- \_\_\_\_\_ Cyber Physical System, Smart Manufacturing and Logistics,  
Internet of Things  
(Dr Carmen Lee)
- \_\_\_\_\_ Robotics, Automation, Control, Mechanism Design  
(Prof. Y.M. Li)

- \_\_\_\_\_ Logistics and Supply Chain Management  
(Dr Nick Chung)
- \_\_\_\_\_ Transport Modelling and Data Analysis; Aviation and Maritime Studies; Industrial Organization analysis for the transport industry  
(Prof. Xiaowen Fu)

Mechanical Engineering

- \_\_\_\_\_ Metallic and Nuclear Materials, Environmental Degradation of Materials, Computational Materials Design and Modeling  
(Prof. S.Q. Shi)
- \_\_\_\_\_ Nanomaterials and Nanotechnology for Energy Conversions and Storages, Recyclable and Reusable High Performance Structural Composites, Functional Composites  
(Prof. L.M. Zhou)
- \_\_\_\_\_ Noise Control and Abatement, Flow-Induced Vibrations and Vibroacoustics  
(Prof. L. Cheng)
- \_\_\_\_\_ Advanced Electrode Materials for Energy Storage, Electrochemical Technologies for Energy and Environmental Applications, Drying of High Value Products  
(Prof. G.H. Chen)
- \_\_\_\_\_ Supersonic and Hypersonic Aerodynamics, Detonation, Active Flow Control, Unmanned Air Vehicles(UAVs), Urban Wind Environment Simulation  
(Prof. C.Y. Wen)

III. Prospective supervisor\* (if any)

Name: \_\_\_\_\_ Department/ division: \_\_\_\_\_

Have you established initial contact with the prospective supervisor named above? Yes / No / Not Applicable\*\*

If yes, please explain the outcome:

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\* The supervisor should be chosen from those shown above.

\*\* Please delete as appropriate. The phone numbers are given in the attachment.



Prof. S.L. Ho	Tel: 2766 6170
Prof. W. Jin	Tel: 2766 6180
Prof. Derek S.W. Or	Tel: 3400 3345
Prof. Z. Xu	Tel: 2766 6160
Dr Kevin K.W. Chan	Tel: 2766 6169
Dr A.P. Zhang	Tel: 3400 3336

## **DEPARTMENT OF ELECTRONIC AND INFORMATION ENGINEERING (EIE)**

### **Departmental Programme Leader**

Dr Daniel Lun	Tel: 2766 6255
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### **Prospective Supervisors**

Prof. Alex Wai	Tel: 2766 6231
Prof. Lu Chao	Tel: 2766 6281
Prof. Kenneth Lam	Tel: 2766 6207
Prof. Francis Lau	Tel: 2766 6206
Prof. Michael Tse	Tel: 2766 6246
Dr Y.H. Chan	Tel: 2766 6264
Dr Z. Chi	Tel: 2766 6219
Dr Bonnie Law	Tel: 2766 4746
Dr Frank Leung	Tel: 2766 6224
Dr K.H. Loo	Tel: 2766 4744
Dr Daniel Lun	Tel: 2766 6255
Dr Changyuan Yu	Tel: 2766 6258

## **DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING (ISE)**

### **Departmental Programme Leader**

Prof. Y.M. Li	Tel: 2766 4978
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### **Prospective Supervisors**

Prof. H.C. Man	Tel: 2766 6629
Prof. K.C. Chan	Tel: 2766 4981
Prof. Felix Chan	Tel: 2766 6605
Prof. Benny Cheung	Tel: 2766 7905
Prof. Xiaowen Fu	Tel: 2766 6329
Prof. P. Ji	Tel: 2766 6631
Prof. Y.M. Li	Tel: 2766 4978
Prof. C.Y. Tang	Tel: 2766 6608
Prof. Sandy To	Tel: 2766 6587
Prof. K.L. Yung	Tel: 2766 6592
Prof. Winco Yung	Tel: 2766 6599
Dr Nick Chung	Tel: 3400 3790
Dr C.K. Kwong	Tel: 2766 6610
Dr Carmen Lee	Tel: 3400 3899
Dr K.M. Yu	Tel: 2766 6603

