



JUNIOR RESEARCHER MENTORING PROGRAMME 2022

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| Code: | JRMP2022_12 |
| School / Department: | Department of Electrical Engineering |
| Name of Research Leader: | Dr Siqi Bu, Associate Professor |
| Research Topic: | Carbon Emission Flow Monitoring and Visualization |
| Short Description of the Research Project: | <p>With the big context of the newly introduced Carbon Neutrality 2050 Target in Hong Kong, the project aims to help secondary students build an awareness of carbon emission control and reduction for environmental protection and global warming restriction. The task of the project is to monitor and visualize the real-time carbon flow in the power network under different combinations of generating technologies. Both model-driven and data-driven approaches will be required by the task. The deliverable of the project will be a useful tool to inform the system operators of the carbon emission status in the system.</p> <p>After the completion of the project, participating students will gain basic knowledge of energy systems and carbon emission, and will also be equipped with capabilities of data analytics and system modelling.</p> |
| No. of Places Offered: | 2 |
| Frequency of Meetings: | Monthly |

* The information presented above is subject to change.