



JUNIOR RESEARCHER MENTORING PROGRAMME 2022

Code:	JRMP2022_18
School / Department:	Department of Industrial and Systems Engineering
Name of Research Leader:	Dr Nick Chung, Associate Professor
Research Topic:	Adoption of Autonomous Mobile Robots for Aircraft Pushback Operations in Airport - A Simulation Study
Short Description of the Research Project:	Automated guided vehicle (AGV), also known as autonomous mobile robot (AMR), is prevalent nowadays. Its applications can be found in many industries. In aviation, it can be used to support various ground operations in airports, e.g., for aircraft pushback. With the Hong Kong International Airport as the background, the objective of this research project is to study the applications of AGV in enhancing airport operations efficiency. Participating students will build a simulation model to simulate the usage of AGVs for airport gate operations and analyze its benefits.
No. of Places Offered:	2
Frequency of Meetings:	Weekly

* The information presented above is subject to change.