

List of Dissertations Completed under 5GDBT

There are many students who have done their dissertations under A/ Prof. Evelyn Teo Ai Lin, the director of 5GDBT. All the students have done incredible work on issues related to BIM and its applications in different areas of AEC industry. Below are the list of topics and the student name.

- [BIM-enabled approach for computation of constructability score](#)
Oh Jun Wei (2020-06-09)
- [Generative Design for HDB Housing for Project Budgeting to increase Construction Productivity.](#)
Shi HaiXin (2020-06-07)
- [Automated asset information checker for BIM in facilities management \(township management\) using COBie](#)
Ng Jun Yi (2020-06-05)
- [Generative Design with cost inputs for Housing Development Board Projects](#)
Ng Choo Jing (2020-06-03)
- [A Novel Value Proposition of BIM in Real Estate Investment Trust Facility Management and Its Potential Impact on BIM Reception](#)
Chwa Cheng Swee (2020-05-29)
- [The Proposed Use of a Baseline Mobile Application for Residential Facilities Management in Singapore](#)
Dayanara Nurahmah Triana (2019-06-12)
- [Proposed BIM and data analytic system for quantity surveyor](#)
Chen Xiayi (2019-06-10)
- [Developing an integrated system in Grasshopper for BIM-based cost estimation in schematic design stage](#)
Xiaowen, Huo (2019-06-10)
- [Implementation of Augmented Reality in Design for Safety Training](#)
Lim, Jie Yin (2019-05-24)
- [Development of a construction payment application to achieve early or prompt payment.](#)
Seah Weng Kang Melvil (2019-12-16)
- [Generative Design System for Hospital Renovation Project](#)
Lee Wei Fen (2019-12-16)

- [Potential Applications of Artificial Intelligence for Facilities Management](#)
Chua, Kwan Chong (2018-12-26)
- [Building Information Modelling \(BIM\) Education in Singapore: A Systematic Review](#)
Phoon Jun Jie (2018-06-27)
- [The study on integration of Building Information Modelling to enhance safety for Prefabricated Pre-finished Volumetric Construction in Singapore](#)
Peh Min San (2018-06-25)
- [Towards a Smart Nation: A People-Centric Blueprint for a Successful Integration of BIM and GIS for the Built Industry](#)
Loh Yi Wei (2018-06-06)
- [Price Effects of Quality Mark Certificate on Private Housing Market](#)
Chan Kai Ting (2018-05-03)
- [A WORKFLOW FOR BIM TO ENHANCE CONSTRUCTION SAFETY PERFORMANCE](#)
Choong Xing Jie Lionel (2017-12-27)
- [An analysis of the prospects of green buildings in Singapore](#)
Lee Yi Xuan (2017-09-11)
- [A study to provide solution to integrate construction industry through information technology](#)
Phang Sing Yeen (2017-08-15)
- [The sustainability of the collective sale industry](#)
Wee Chin Min (2017-07-25)
- [Reborn of the relic - Chinese temples of Singapore: A vehicle between the relic of the past & dynamic catalyst of the present in urban transformations and evolutions](#)
Looi Chee Kin (2017-07-25)
- [Factors affecting bills of quantities preparation process](#)
Koh Suh Ling Karen (2017-07-18)
- [Impediments of future implementation of automated quantities taking-off system \(AQTS\)](#)
Heng Siew Nam Patricia (2017-07-17)
- [Making a more quantity-surveyor friendly software using ARCHICAD 11](#)
Nguyen Thi Thuy Anh (2017-07-07)

- [A Guide on Implementation of Building Information Modelling for Design for Safety in Construction Projects in Singapore](#)
Goh Huijun (2017-06-08)
- [An Energy Retrofit Strategy Using Building Information Model \(BIM\) & Cyber-Physical System \(CPS\)](#)
Lim Yu Xian (2017-06-08)
- [An Institutional Perspective on Adopting Smart Building Concept: Identifying and Overcoming Barriers](#)
Tan Shi Hui (2017-06-06)
- [Impact of Building Information Modelling \(BIM\) on productivity in cost-estimating in the construction industry](#)
Nurul Faiqah Bte Ghazali (2017-06-05)
- [Building Information Modelling \(BIM\) Integrated Guide for Value Chain Partners in Collaborative Virtual Design and Construction](#)
Tan Xin Wei Hazel (2017-05-29)
- [Implementation of BIM in financing of projects and real estate asset planning & management](#)
Quay Jun Rong Terance (2016-12-28)
- [Raising embodied carbon management using building information modelling \(BIM\) in Singapore: A developer's perspective](#)
Lee Ru Ting (2016-12-09)
- [Privately owned public spaces \(POPS\): Capabilities, tensions and paradoxes of "public space" in Singapore](#)
Goh Hui Ying (2016-12-05)
- [Optimising Interoperability of Building Information Model](#)
Lim Yong Khoon (2016-07-18)
- [Underlying factors affecting BIM productivity: BIM Maturity and Optimization Framework](#)
Lim Wen Jie Gabriel (2016-07-12)
- [Towards Constructing a Smart City - BIM and GIS collaborative architecture for construction management of Redevelopment projects](#)
Liu Yizhe (2016-07-11)
- [Building information modelling in Singapore: A review of the state-of-the-art](#)
Chew Siew Lee Celia (2016-07-11)
- [The 'IT' in Safety - The Promotion of Virtual design and construction \(VDC\) for Construction Safety](#)
D K Arjun (2016-07-07)

- [A guide on the implementation of building information modelling on the existing facility management structure in the National University of Singapore](#)
Tan Mew Leng (2016-07-07)
- [Raising building information modelling \(BIM\) maturity of firms in Singapore: A contractor's perspective](#)
Soh Hui Min (2016-01-18)
- [Building information modeling \(BIM\) maturity assessment tool for Singapore construction organisations](#)
Koh Zi Ying (2016-01-18)
- [Mothers, maids and others: Domestic productions of a nation and her households](#)
Lau Mun Fai Joel (2015-08-11)
- [Viability of building information modeling \(BIM\) business and BIM'S impact on payment system \(Singapore\)](#)
Tan Ying Ting Michelle (2015-07-29)
- [Strategies to encourage the implementation of BIM in Singapore's construction industry](#)
Mehmoodzeb s/o Aurangzeb (2015-07-29)
- [The relationship of construction safety and the construction productivity & capability fund \(CPCF\) scheme](#)
Goh Gen Qi Marissa (2015-06-26)
- [A BIM-based conversion method to use overseas life cycle inventories for life cycle assessment of local construction materials](#)
Le Van Hieu (2015-06-25)
- [Raising productivity through Building Information Modelling \(BIM\): A contractor's perspective](#)
Chew Si Ying (2015-06-18)
- [Building Information Modeling \(BIM\) education in Singapore: Trends, issues, priorities and strategies](#)
Chin Yi (2015-06-16)
- [A FM guide for the implementation of BIM with COBie](#)
Low Pui Hoon (2015-01-12)