

CIC Construction Innovation Award 2019

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▶ International

▶ Construction Productivity

▶ Construction Safety

▶ Construction Sustainability

▶ Full-time Students

▶ Finalists

Announcement of the CIC Construction Innovation Award 2019

The awardees of the CIC Construction Innovation Award 2019 were announced at the Hong Kong Convention and Exhibition Centre at Construction Innovation Expo Grand Opening Ceremony and CIC Construction Innovation Award Presentation Ceremony and Technical Seminar 2019 on 18 December 2019.

Grand Prizes

International Grand Prize

Title of Entry: **Intelligent Robotic Systems for Interior Finishing and Quality Assessment**



Awarded Companies/Organisations:

Nanyang Technological University
Transforma Robotics Pte Ltd

Project Summary ([assets/ia-2019/CIA 2019_Transforma Robotics_Eng.pdf](#))

Project video (<https://youtu.be/5uQUioQgof4>)

Local Grand Prize

Title of Entry: **Yau Lee High Rise Concrete MiC System**



Awarded Companies/Organisations:

Yau Lee Holdings Ltd.

Architectural Services Department, The Government of HKSAR

Yau Lee Construction Co. Ltd.

Yau Lee Wah Concrete Precast Products Co. Ltd.

Project Summary (assets/ia-2019/CIA 2019_Yau Lee_Eng.pdf)

Project video (<https://youtu.be/YYRaAvRZofE>)

Young Innovator Prize

Title of Entry: **A New Generation of Rigid Landslide Debris-resisting Barrier System**



Awarded Companies/Organisations:

Geotechnical Engineering Office, Civil Engineering and Development Department, The Government of HKSAR

Project Summary (assets/ia-2019/CIA 2019_GEO_Eng.pdf)

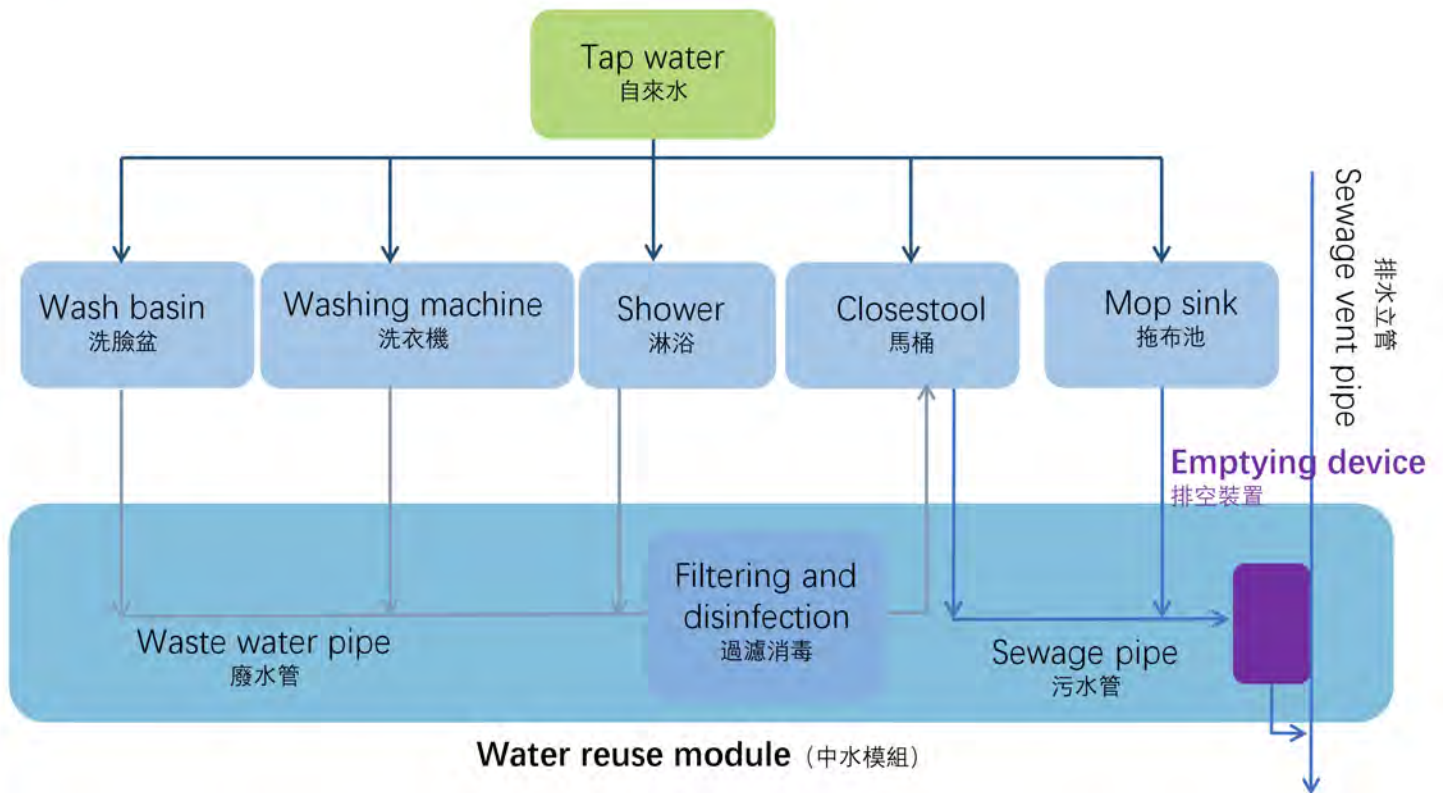
International

International 1st Prize

Title of Entry: **Modular indoor reclaimed water integration system**



Schematic Design of The System 系統設計原理圖



Awarded Companies/Organisations:

China Architecture Design & Research Group
Beijing Mingrui Chengsheng Water Saving Technology Co. Ltd.

Project video (<https://youtu.be/vb4QIUViBK8>)

International 2nd Prize

Title of Entry: **Safe, Precise, Fast – How Drones are Modernising Rock-mapping**



Awarded Companies/Organisations:

Aurecon Group Pty. Ltd.

Project Summary ([assets/ia-2019/CIA 2019_Aurecon_Eng.pdf](#))

Project video (<https://youtu.be/S8HVRJDTmA>)

Construction Productivity

Construction Productivity 1st Prize

Title of Entry: **ALUMiC-An Innovative Hybrid MiC System**



Awarded Companies/Organisations:

AluHouse Co. Ltd.

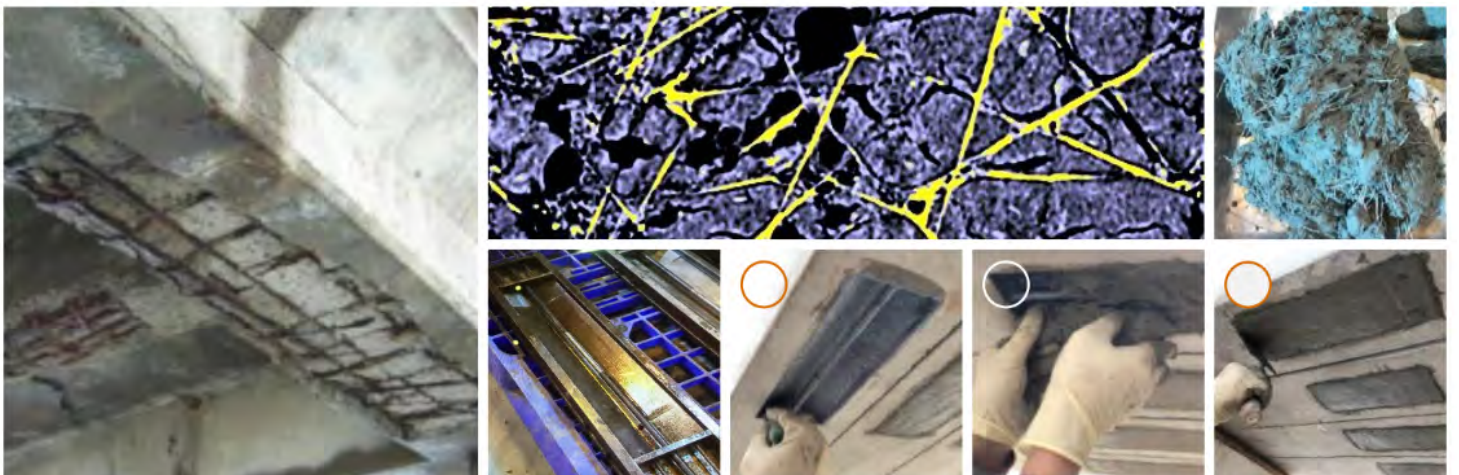
P&T Architects and Engineers Ltd.

Project Summary (assets/ia-2019/CIA 2019_AlHouse_Eng.pdf)

Project video (<https://youtu.be/Zlzi33xXvBc>)

Construction Productivity 2nd Prize

Title of Entry: **R²M² (Rapid Repairing Mortar Material)**



Awarded Companies/Organisations:

The Hong Kong University of Science & Technology
Chun Wo Construction & Engineering Co. Ltd.
Nano and Advanced Materials Institute Ltd.

Project Summary ([assets/ia-2019/CIA 2019_HKUST_Eng.pdf](#))

Project video (https://youtu.be/NJSLK_I7LHY)

Construction Safety

Construction Safety 1st Prize

Title of Entry: **SmartWorks**



Awarded Companies/Organisations:

SmarTone Mobile Communications Ltd.

Project Summary ([assets/ia-2019/CIA 2019_SmarTone_Eng.pdf](#))

Project video (<https://youtu.be/9Ql21M-H93Q>)

Construction Safety 2nd Prize

Title of Entry: **Robot System for the Placement and Collection of Traffic Cones and Lanterns in Road Works**



Awarded Companies/Organisations:

Highways Department, The Government of HKSAR
Hong Kong Productivity Council

Project Summary ([assets/ia-2019/CIA 2019_HyD_Eng.pdf](#))

Project video (<https://youtu.be/XDD9Ru9gqkQ>)

Construction Sustainability

Construction Sustainability 1st Prize

Title of Entry: **Smart Riser Jacket and Robotic System**



Awarded Companies/Organisations:

The Hong Kong and China Gas Co. Ltd.
City University of Hong Kong

Project Summary ([assets/ia-2019/CIA 2019_Towngas_Eng.pdf](#))

Project video (<https://youtu.be/Gqp5fOqeJ78>)

Construction Sustainability 2nd Prize

Title of Entry: **SIMple - An innovative app making site management simple and sustainable**



Awarded Companies/Organisations:

Drainage Services Department, The Government of HKSAR
Black and Veatch Hong Kong Ltd.
Build King - Kum Shing Joint Venture
Cerebro Strategy Ltd.

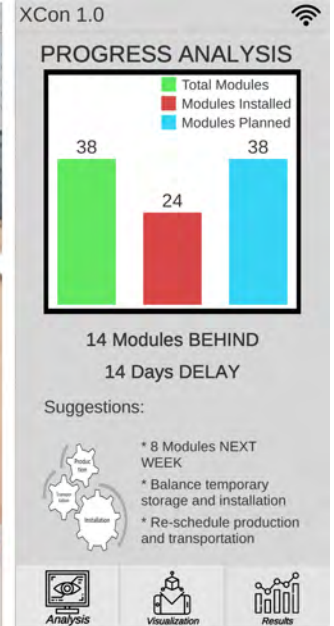
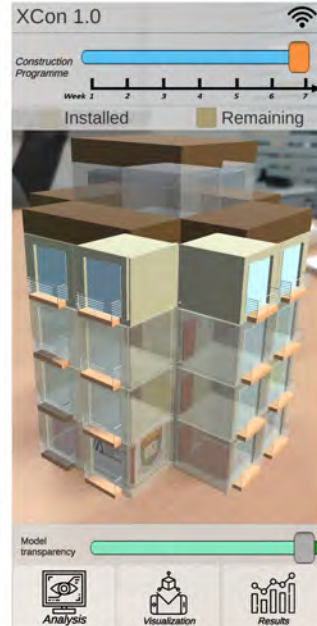
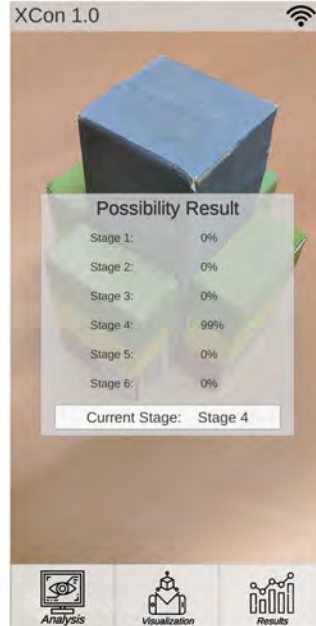
Project Summary (assets/ia-2019/CIA 2019_DSD_Eng.pdf)

Project video (<https://youtu.be/LTk9RyU73KI>)

Full-time Students

Student Innovation Prize

Title of Entry: **Augmented Reality and Computer Vision Integrated Construction Progress Monitoring and Control: A Case of Modular Integrated Construction**



Awarded Companies/Organisations:

The University of Hong Kong

Project Summary (assets/ia-2019/CIA 2019_HKU_Eng.pdf)

Project video (<https://youtu.be/giFLo-c0ed4>)

Finalists

Finalist

Title of Entry: **A Cloud-based System for Vibration Impact Monitoring and Assessment in Hospital Construction Projects**



Awarded Companies/Organisations:

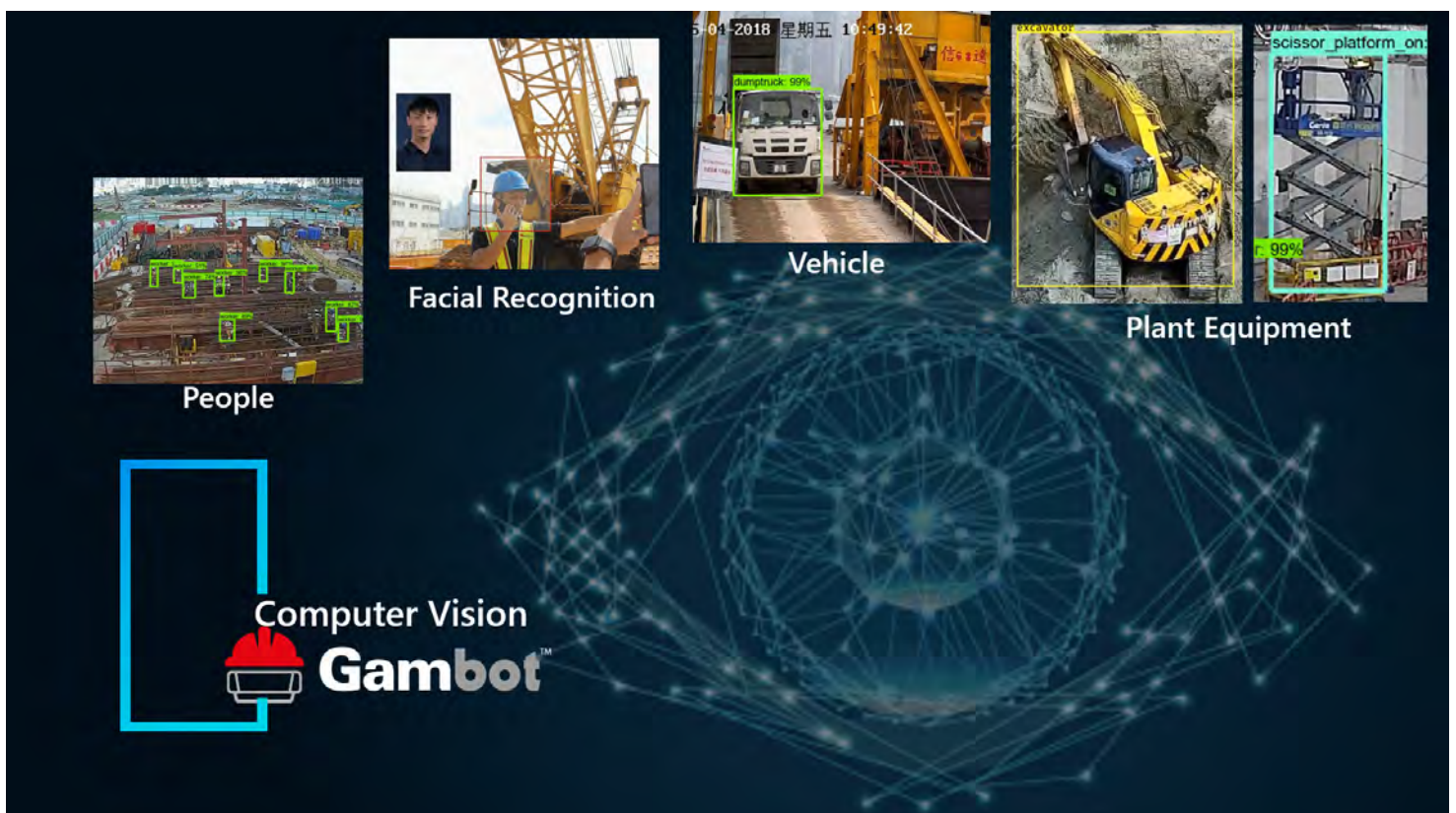
The Hong Kong Polytechnic University

Project Summary (assets/ia-2019/CIA 2019_PolyU_Eng.pdf)

Project video (<https://youtu.be/JDXjcf7gofc>)

Finalist

Title of Entry: **AIC by Gambot**



Awarded Companies/Organisations:

Gammon Construction Ltd.

Project Summary (assets/ia-2019/CIA 2019_Gammon_Eng.pdf)

Project video (<https://youtu.be/vN-TJnTCckA>)

Finalist

Title of Entry: **CIC Zero Carbon Park - emMiC (Stormwater Air Conditioning System)**



Awarded Companies/Organisations:

Build King Construction Ltd.

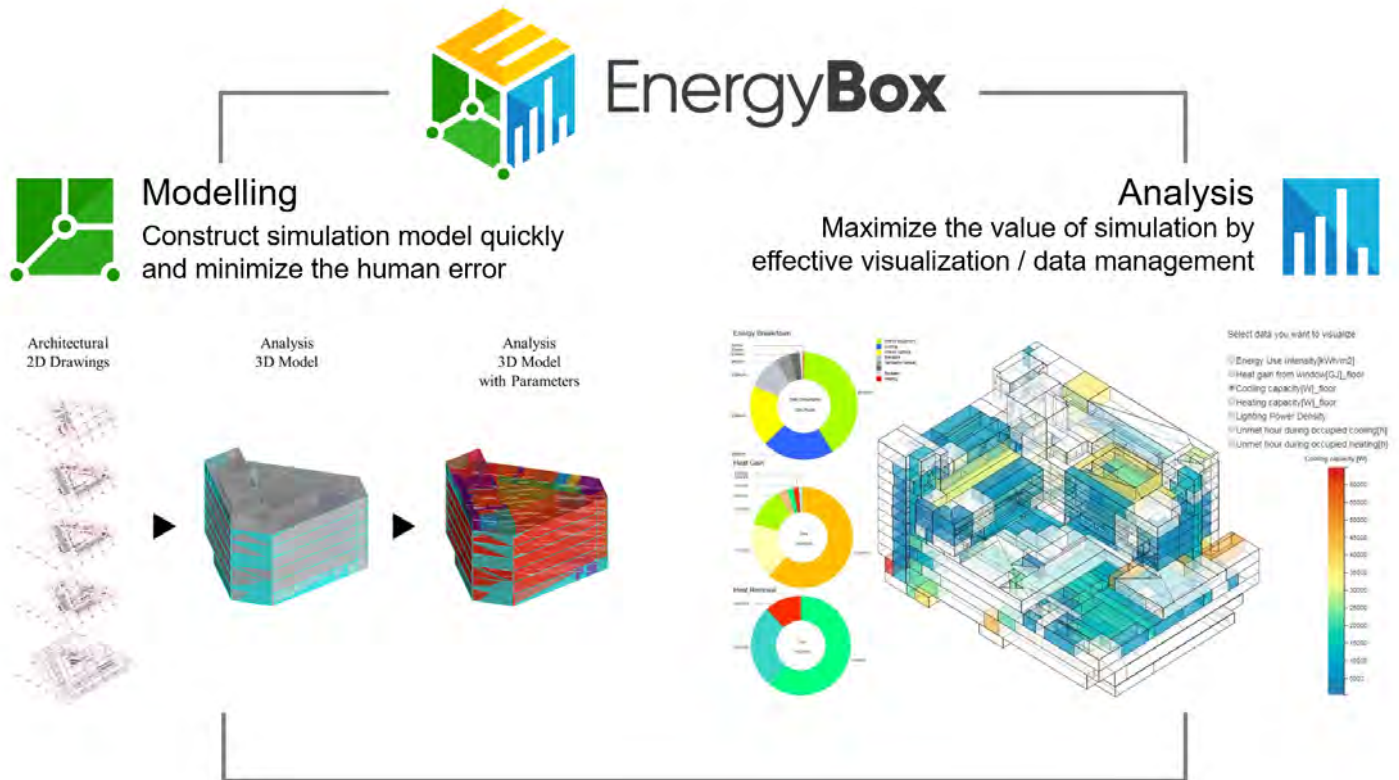
Build King Management Ltd.

Project Summary (assets/ia-2019/CIA 2019_Build King_Eng.pdf)

Project video (<https://youtu.be/eaDih2nw6Vc>)

Finalist

Title of Entry: **EnergyBox: an integrated automation toolset for energy simulation**



Awarded Companies/Organisations:

Arup

Project Summary (assets/ia-2019/CIA 2019_Arup_Eng.pdf)

Project video (<https://youtu.be/xDQfVF8eTcg>)

Finalist

Title of Entry: **ROBY 850 - Semi-Automatic Drilling and Anchor Bolts Installation Robot**



Awarded Companies/Organisations:

Dragages Hong Kong
Bouygues Construction

Project Summary ([assets/ia-2019/CIA 2019_Dragages_Eng.pdf](#))

Project video (<https://youtu.be/3dFPx3HVUI4>)

Finalist

Title of Entry: **Welbot Robotic Welder**



Awarded Companies/Organisations:

Welbot Technology Ltd.

Project Summary ([assets/ia-2019/CIA 2019_Welbot_Eng.pdf](#))

Project video (<https://youtu.be/eSJT9FHcaJ0>)

Finalist

Title of Entry: **Zen · wood**



Awarded Companies/Organisations:

HM Environmental Technologies Ltd.

Project Summary ([assets/ia-2019/CIA 2019_HM Environmental_Eng.pdf](#))

Project video (<https://youtu.be/VKgjjBCWxto>)