

FLASS KT achievement from 2018/19, 2019/20, and 2020/21

(a) STEM (MIT, SES, HPE, CEES)

(1) Patent (*No Patent in 2018/19; 2020/21 Information will be available in end of July*)

2019/20

Type (Patent application/ patent granted)	Inventor List	Dept	Name of Patent	Serial Number of Patent	Conferred By/ Date
<i>Patent granted</i>	<i>Dr Xie Haron (30%) Ms Wang Jingjing (50%) Dr Chan Wai-hong (20%)</i>	<i>MIT</i>	<i>Chi: 一種個性化線上學習與職業雙向推薦方法及系統 Eng: A Personalised Online Learning and Professional Two-way Referral Method and System</i>	<i>HK30008626</i>	<i>Intellectual Property Department, Hong Kong 2020/06/12</i>
<i>Patent application</i>	<i>Dr Xie Haron (30%) Ms Wang Jingjing (50%) Dr Chan Wai-hong (20%)</i>	<i>MIT</i>	<i>Chi: 一種個性化線上學習與職業雙向推薦方法及系統 Eng: A Personalised Online Learning and Professional Two-way Referral Method and System</i>	<i>201910878676.3</i>	<i>China National Intellectual Property Administration 2019/09/17</i>

(2) Awards

2018/19

Project Title	Principle Investigator(s)	Award(s)
Silicon Valley International Invention Festival 2019 (24 – 26 June 2019)		
<i>An Automated System for Tracking Student Responses to Teacher Feedback</i>	Dr Gary Cheng Kwok-shing Department of Mathematics and Information Technology	Silver Medal
International Exhibition of 47th International Exhibition of Inventions Geneva (10 – 14 April 2019)		
<i>Fuzzy Talent Assessment System Based on Educational Big Data</i>	Dr Xie Haoran Department of Mathematics and Information Technology	Silver Medal
<i>Using Heart Rate Variability (HRV) for Real-Time Emotion Assessment</i>	Prof Joanne Chung Wai-yee, Department of Health and Physical Education (External partner: Thomas Wong K.S.)	Silver Medal

2019/20

Project Title	Principle Investigator(s)	Award(s)
International Invention Innovation Competition in Canada 2019 (Aug)		
<i>Personalized Vocabulary Learning System Based on The Checklist of Technique Feature Analysis</i>	Dr Zou Di Department of English Language Education Dr Xie Haoran (former staff) Department of Mathematics and Information Technology	Gold Medal, Special Award
<i>GMoodle: Online Evidence-based Assessment System for Student Group Activities</i>	Dr Winnie Lam Wai-man Department of Mathematics and Information Technology	Silver Medal, Special Award

2020/21

Project Title	Principle Investigator(s)	Award(s)
2021 Special Edition – Inventions Geneva Evaluation Days (Mar)		
<i>Online Assessment System for Individual Scores (OASIS)</i>	Principal Investigator: Professor Woo Chi-keung Department of Asian and Policy Studies Co-investigators: Dr Henry So Chi-fuk Department of Mathematics and Information Technology Dr Alice Shiu, Dr Liu Yun (external partners)	Gold Medal
<i>Innovative Indoor Air Quality Monitoring and Education Kit</i>	Dr Deng Wenjing Department of Science and Environmental Studies	Silver Medal
<i>Utilization of Waste Residues as Resources in Producing Sustainable Construction Materials</i>	Dr Tsang Yiu-fai Department of Science and Environmental Studies Mr Cheng Wai-nam (former student)	Silver Medal
11th International Innovation and Invention Competition (Nov)		
<i>Online Assessment System for Individual Scores (OASIS)</i>	Principal Investigator: Professor Woo Chi-keung Department of Asian and Policy Studies Co-investigators: Dr Henry So Chi-fuk Department of Mathematics and Information Technology Dr Alice Shiu, Dr Liu Yun (external partners)	Gold Medal
<i>VocabGO – An Augmented Reality English Vocabulary Learning App</i>	Dr Song Yanjie Department of Mathematics and Information Technology	Gold Medal
<i>Eco-concrete Block Utilizing Waste Sludge</i>	Dr Tsang Yiu-fai Department of Science and Environmental Studies	Silver Medal

	Mr Cheng Wai-nam (former student)	
International Invention Innovation Competition in Canada 2020 (Aug)		
<i>Environmental Pollution Control through Practices: From “Waste” to “Treatment”</i>	Dr Tsang Yiu Fai Department of Science and Environmental Studies	Gold Medal, Special Award, Top 20 Best Invention of iCAN 2020
<i>Remote-controlled Digital Hydrometer</i>	Prof Yeung Yau-yuen Department of Science and Environmental Studies Miss Leyla Liu Yan [EdUHK Former Student]	Gold Medal, Special Award
<i>m-Orchestrate: A Mobile App for Teacher Orchestration in Collaborative Science Inquiry</i>	Dr Song Yanjie, Mr Cao Jiabin Department of Mathematics and Information Technology	Silver Medal, Special Award

(3) Start Up

2020/21

Company Name	Founder Name*	Department
Wubuntu Limited	TIAN Chen	(FHM) Bachelor of Education (Honours) in English Language
	Lam Hung Yan	(FLASS) Department of Science and Environmental Studies - Bachelor of Arts (Honours) in Education for Sustainability

* only those who are students or alumni are listed

(4) External KT Related Grants/Funds

Funding Year	Funding Source	Project Leader	Project Title	Amount Granted
2018/19	QTN	Dr Tsang Po-keung [SES]	From Self-directed Learning to the Integration of STEM into School-based Curricula of Primary Schools	\$3,777,000

2018/19	ECF	Dr Cheang Chi-chiu [SES]	Environmental DNA-based assessment of biodiversity in reservoirs and their catchment areas in Hong Kong	\$1,109,600
2019/20	QEF	Professor Joanne Chung Wai-yee [HPE]	Re-vitalizing School Through Mindful Self-Compassion Programme	\$478,200
2020/21	QTN	Professor Tsang Po-keung [SES]	Integrating Self-directed Learning with Curriculum-oriented Cross-disciplinary STEM Education (2020/21 School Year)	\$5,222,000
2020/21	ECF	Dr Tsang Yiu-fai [SES]	Identification, characterisation, and process modification for enhancing removal efficiency of microplastics in sewage treatment works with different designs in Hong Kong	\$1,000,000

(b) Social (APS & SSC)

(1) Patent (*No Patent in 2018/19; 2020/21 Information will be available in end of July*)
NIL

(2) Awards

2018/19

Project Title	Principle Investigator(s)	Award(s)
Silicon Valley International Invention Festival 2019 (24 – 26 June 2019)		
<i>Computerized Task-Switching Training for Enhancing Executive Functioning of Children Living in Poverty</i>	Prof Chou Kee-lee, Dr Kevin Cheung Chi-ki Department of Asian and Policy Studies (APS) Dr Kean Poon Kei-yan Department of Special Education and Counselling (SEC)	Silver Medal

2019/20

NIL

2020/21

Project Title	Principle Investigator(s)	Award(s)
2021 Special Edition – Inventions Geneva Evaluation Days (Mar)		
<i>Online Assessment System for Individual Scores (OASIS)</i>	Principal Investigator: Professor Woo Chi-keung Department of Asian and Policy Studies Co-investigators: Dr Henry So Chi-fuk Department of Mathematics and Information Technology Dr Alice Shiu, Dr Liu Yun (external partners)	Gold Medal
<i>Tree Assessment for Life Education (TALE) Project</i>	Professor Jim Chi-yung, Dr Alice Chow Sin-yin Department of Social Sciences Professor John Lee Chi-kin, TALE project team Centre for Religious and Spirituality Education	Silver Medal
11th International Innovation and Invention Competition (Nov)		
<i>Online Assessment System for Individual Scores (OASIS)</i>	Principal Investigator: Professor Woo Chi-keung Department of Asian and Policy Studies Co-investigators: Dr Henry So Chi-fuk Department of Mathematics and Information Technology Dr Alice Shiu, Dr Liu Yun (external partners)	Gold Medal

<i>An Emotion Recognition System Based on The Deep Neural Network</i>	Principal Investigator: Dr Zou Di Department of English Language Education Co-investigators: Professor Chou Kee-lee Department of Asian and Policy Studies Dr Xie Haoran (external partner)	Silver Medal
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(3) Start Up

NIL

(4) External KT Related Grants/Funds

Funding Year	Funding Source	Project Leader	Project Title	Amount Granted
2020/21	HMRF	Professor Chou Kee-lee [APS]	Opening the black box of a multicomponent intervention for informal dementia caregivers: A randomized controlled trial using the Multiphase Optimization Strategy (MOST)	\$1,470,200

(c) Art and Culture (CCA)

(1) Patent (*No Patent in 2018/19; 2020/21 Information will be available in end of July*)

2019/20

Type (Patent application/ patent granted)	Inventor List	Dept	Name of Patent	Serial Number of Patent	Conferred By/ Date
<i>Patent granted</i>	<i>Dr Michael Leung Chi-hin (100%)</i>	<i>CCA</i>	<i>Eng: A system for creating a grid notation music score Chi: 一種方格樂譜生成系統</i>	<i>HK1259119</i>	<i>Intellectual Property Department, Hong Kong 2019/11/22</i>
<i>Patent application</i>	<i>Dr Koji Matsunobu (100%)</i>	<i>CCA</i>	<i>Eng: A Mouthpiece For Use With A Musical Instrument And A Method Of Manufacturing Thereof</i>	<i>PCT/CN2019/103000</i>	<i>World Intellectual Property Organization 2019/08/28</i>
<i>Patent application</i>	<i>Dr Koji Matsunobu (100%)</i>	<i>CCA</i>	<i>Eng: A Mouthpiece For Use With A Musical Instrument And A Method Of Manufacturing Thereof JP: 楽器で使用するためのマウスピース</i>	<i>2019-600137</i>	<i>Japan Patent Office 2019/09/13</i>

(2) **Awards**

2018/19

Project Title	Principle Investigator(s)	Award(s)
70th International Trade Fair (iENA) (1 – 4 November 2018)		
Interactive Chinese Characters as a New Learning Method	Dr Hung Keung Department of Cultural and Creative Arts	Silver Medal

2019/20

Project Title	Principle Investigator(s)	Award(s)
iENA - International Trade Fair “Ideas-Inventions-New Products” in Germany 2019 (30 Oct – 3 Nov 2019)		
A Mouthpiece with a Supporting Windway	Dr Matsunobu Koji Department of Cultural and Creative Arts	Bronze Medal
The Grid and Grid Notation for Music Education	Dr Leung Chi-hin Department of Cultural and Creative Arts	Bronze Medal

2020/21

Project Title	Principle Investigator(s)	Award(s)
2021 Special Edition – Inventions Geneva Evaluation Days (Mar)		
Portable Interactive Meditation Mirror	Dr Hung Keung Department of Cultural and Creative Arts	Gold Medal
11th International Innovation and Invention Competition (Nov)		
Portable Interactive Meditation Mirror	Dr Hung Keung Department of Cultural and Creative Arts	Gold Medal

(3) Start Up

2020/21

Company Name	Founder Name*	Department
KreativeLab HK Limited	Leung Cheuk Long	(FLASS) Department of Cultural Creative Arts - Bachelor of Education (Honours) (Music)

* only those who are students or alumni are listed

(4) External KT Related Grants/Funds

Funding Year	Funding Source	Project Leader	Project Title	Amount Granted
<i>Nil</i>				