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3rd Asia Exhibition of Innovations and Inventions Hong Kong - Winning Entries

Grand Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
io.net, inc.	io.net Internet of GPUs	io.net, inc.

Special Prize

Inventions Geneva Award - The 1st Prize

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Hong Kong Applied Science and Technology Research Institute Company Limited	Smart Contactless Robot Charging (SCRC): A High-Efficiency & Compact Wireless Charging Platform for Industrial Robotics	Dr. Chun-Kit CHEUNG, Mr. Samuel Tak Lok SHUM, Hong Kong Applied Science and Technology Research Institute Company Limited

Inventions Geneva Award - The 2nd Prize

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Suzhou SeeEx Technology Co.	An Intelligent Hydrogen-powered UAV with Safety Control	Dr. Xiaoyu GUO, Dr. Zhen DONG, Dr. Yangyang CUI

Inventions Geneva Award - The 3rd Prize

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Chulalongkorn University	BioCa: Plant Bio-Calcium Booster	S. Ekgasit, N. Keawprak, W. Satadaechakul, N. Usungnoen, Chulalongkorn University



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<u>Special Prize</u>		
<u>IFIA Award</u>		
<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
City University of Hong Kong	Negative Reactance: A Game Changing Device for Power Applications	City University of Hong Kong, EE: Prof. Chi Kong TSE, Dr Li DING
<u>CAI Award</u>		
<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Federal State Autonomous Institution "National Medical Research Neurosurgical Center named after Nikolay Burdenko" of the Ministry of Health of the Russian Federation	Method of optic nerve reconstruction with autograft	Mr. Alexey Shkarubo, Ms. Zaliya Yakupova, Mr. Iliia Chernov, Federal State Autonomous Institution "National Medical Research Neurosurgical Center named after Nikolay Burdenko" of the Ministry of Health of the Russian Federation
The Radio Control Airplane Modeler Sport Association	BeachGuard Flyer	The Radio Control Airplane Modeler Sport Association
Logistics and Supply Chain MultiTech R&D Centre	AI Vision Technology for Heat Source Detection to Enhance the Effectiveness of Automated Hill Fire Surveillance	Logistics and Supply Chain MultiTech R&D Centre



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Special Prize

NRCT Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Pamela Youde Nethersole Eastern Hospital	Advanced 3D Printing Technique with Ultrasound Visible and Haptical-Feedback Correct for High Risk Medical Procedure Training and Simulation with referenced to Artificial-Intelligent Segmented Normal Whole-body Library	Pamela Youde Nethersole Eastern Hospital

Technopol Group Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
The Hong Kong Polytechnic University	AIoT Empowered All-Terrain Personal Vehicle for People with Disabilities	The Hong Kong Polytechnic University, Libpet Tech Limited



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Gold with Congratulations of Jury Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
City University of Hong Kong	Negative Reactance: A Game Changing Device for Power Applications	City University of Hong Kong, EE: Prof. Chi Kong TSE, Dr Li DING
Hong Kong Applied Science and Technology Research Institute Company Limited	Smart Contactless Robot Charging (SCRC): A High-Efficiency & Compact Wireless Charging Platform for Industrial Robotics	Dr. Chun-Kit CHEUNG, Mr. Samuel Tak Lok SHUM, Hong Kong Applied Science and Technology Research Institute Company Limited
io.net, inc.	io.net Internet of GPUs	io.net, inc.
Logistics and Supply Chain MultiTech R&D Centre	AI Vision Technology for Heat Source Detection to Enhance the Effectiveness of Automated Hill Fire Surveillance	Logistics and Supply Chain MultiTech R&D Centre
Pamela Youde Nethersole Eastern Hospital	Advanced 3D Printing Technique with Ultrasound Visible and Haptical-Feedback Correct for High Risk Medical Procedure Training and Simulation with referenced to Artificial-Intelligent Segmented Normal Whole-body Library	Pamela Youde Nethersole Eastern Hospital
Suzhou SeeEx Technology Co.	An Intelligent Hydrogen-powered UAV with Safety Control	Dr. Xiaoyu GUO, Dr. Zhen DONG, Suzhou SeeEx Technology Co.
The Hong Kong Polytechnic University	AIoT Empowered All-Terrain Personal Vehicle for People with Disabilities	The Hong Kong Polytechnic University, Libpet Tech Limited
The Skyward Data Science and AI Transportation Lab	ClusterAD: Method of Presenting Flight Data of an Aircraft and a Graphical User Interface for Use with the Same	City University of Hong Kong: Prof. LI Lishuai, ZHAO Weizun, CHARRUAUD Florent



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<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Allied Success Technology Development Limited	Eco-permeable Material With Recycled Rubber Tyre Crumb and Geopolymer	Ir Allan CHAN, Dr Garrison CHAU, Allied Success Technology Development Limited
Arbele Limited	ARB202 - A Promising and Novel CDH17xCD3 Bispecific T-cell engager for the Treatment of Advanced GI Cancers	Arbele Limited, City University of Hong Kong (HK Tech 300)
Centre for Eye and Vision Research	ObstAR	Centre for Eye and Vision Research
Centre for Eye and Vision Research	Structured Light Observation, Perception and Evaluation (SLOPE) device	Centre for Eye and Vision Research
Chulalongkorn University	OxyRock	J. Jitrojanarak, R. Armstrong, P. Jangtawee, S. Boonyananta, S. Imsamraan, C. Lertvachirapaiboon, Chulalongkorn University
City University of Hong Kong	Multi-Site Integrated Power Converters for DC Distribution Networks of Data Centers	City University of Hong Kong: Prof. Derrick C.Q. JIANG, Tianlu MA, Jiayi GENG, Shusheng WEI; UC: Prof. Teng LONG
Confo Quanta	Nanofabrication Technique by Direct Laser Patterning	Confo Quanta, The Hong Kong University of Science and Technology
Digital Continents Limited	Ezpie: The Ultimate Platform to Unlock Data Values	Digital Continents Limited, The Hong Kong University of Science and Technology
Electrical and Mechanical Services Department	Smart Antifouling Seawater Screen	Electrical and Mechanical Services Department



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<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Hong Kong Applied Science and Technology Research Institute Company Limited	Long-Wave Infrared Imaging Metalens	Mr. Yunhe LAI, Ms.Ying Suet LAU
Hong Kong Applied Science and Technology Research Institute Company Limited	5G Multi-Hop Backhaul for Smart Cities and Rural Communications	Mr. Eddy CHIU, Ms. Yuxian ZHANG
Hong Kong Productivity Council	Cutting-Edge Aluminum-Silicon Casting Alloy with Superior Thermal Conductivity and Minimal Thermal Expansion	Hong Kong Productivity Council
Hong Kong Productivity Council	Develop Smart Logistics Solution with Autonomous Moving Robots	Hong Kong Productivity Council
I2COOL Limited	Electricity-free Cooling Technology	I2COOL LIMITED, City University of Hong Kong (HK Tech 300)
King Mongkut's University of Technology Thonburi	Bone substitute with biodegradability control for enhancing bone integration efficiency in Orthopedic treatment	A. Khantachawana, N. Sammavipaveekul, C. Chaorawan, S. Amornthitipong, P. Rittarwet, King Mongkut's University of Technology Thonburi
Logistics and Supply Chain MultiTech R&D Centre	Automated Concrete Cube Testing System	Logistics and Supply Chain MultiTech R&D Centre
National Nanotechnology Center, Chulalongkorn University	Eco-Friendly flame-retardant filament for 3D printing	Chutiparn Lertvachirapaiboon, Sanong Ekgasit, National Nanotechnology Center, Chulalongkorn University
Princess Chulabhorn Science High School Pathum Thani	NRHP : Innovative High Efficiency Nursery Bags Supplement Nutrients for the Root Harvesting Plant	N. Chawalitsoonthorn, S. Sinsawat, N. Punpulinthikul, C. Sungkapun, K. Klaythong, Princess Chulabhorn Science High School Pathum Thani



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<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
S3Tough Tech Co. Limited	Super-Tough Artificial Spider Silk	S3Tough Tech Co. Limited, City University of Hong Kong (HK Tech 300)
Seth Biotech Limited	Three-dimensional Copper-based Filter with Fast Virus Elimination	City University of Hong Kong: Prof. TU King-Ning, Prof. LIU Yingxia, Dr. CHEN Chang
The Chinese University of Hong Kong	AI-guided and Personalised Fecal Microbiota Transplantation (FMT) Treatment for Human Diseases	Microbiota I-Center
The Chinese University of Hong Kong	Universal 3D Tissue Imaging & Analysis Methods	Prof. LAI Hei Ming, Mr Jacky HUNG Tin-Shing, Mr Juno YAU Chun Ngo, Illumos Limited
The Chinese University of Hong Kong	Self-healing Magnetic Slime Robot for Non-invasive Endoluminal Intervention in the Gastrointestinal System	The Chinese University of Hong Kong
The Chinese University of Hong Kong	RefluxChip – a Miniature, Battery-free Remote Sensing System for Real-Time Monitoring of Gastroesophageal Reflux Disease	The Chinese University of Hong Kong
The Education University of Hong Kong	Rapid Quantification of Microplastics Using Total Organic Carbon Analysis with Simple Sample Pre-treatment	Dr. Yiu Fai TSANG, Ms. Yan Laam CHENG
The Hong Kong Polytechnic University	AI Ambassador (Digital Human Version)	The Hong Kong Polytechnic University, Asiabots Limited
Tranquility Acoustronics (HK) Limited	Acoustic metamaterials based ventilation silencers	Mr. Zhiyu YANG, The Hong Kong University of Science and Technology



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<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
A&B Innovation, Faculty of Agro and Bio Industry, Thaksin University	The innovative anthocyanin-rich extract from Sangyod rice bran for application in cosmetic products	P. Temboot, W. Wanitsuwan, T. Juntachote, R. Pongpanich, K. Tinpun, A&B Innovation, Faculty of Agro and Bio Industry, Thaksin University
AniTech Limited	An AI-assisted EEG Analysis Platform for Drug Screening	AniTech Limited, City University of Hong Kong (HK Tech 300)
ASA Robotics Limited	Luna Cat	ASA Robotics Limited, City University of Hong Kong (HK Tech300)
Automotive Platforms and Application Systems (APAS) R&D Centre	Development of PEM fuel cell technology platform for EV mobile charging system	Automotive Platforms and Application Systems (APAS) R&D Centre
Automotive Platforms and Application Systems (APAS) R&D Centre	Development of Pantograph High Power Charging Solution for Electric Commercial Vehicles	Automotive Platforms and Application Systems (APAS) R&D Centre
Bioneer Corporation	IRON-qPCR™	Bioneer Corporation
CAT Limited	Nano-MAP: High-performance Eco-friendly Nano-photocatalytic Coating	CAT Limited, City University of Hong Kong (HK Tech 300)
Chaobei Tools (Shandong) Co., Ltd.	Electric negative pressure suction plate	Fei WANG, Zhaorong FAN
City University of Hong Kong	Ice Transfer for 2D Materials and Ultra-clean Semiconductor Device Manufacture	City University of Hong Kong: Prof. LY Thuc Hue, Mr. LIU Haijun, Dr. THI Quoc Huy
City University of Hong Kong	Solar-Electrocatalytic System for Hydrogen Generation	CityU (MSE): Prof. Johnny C Y HO, QUAN Quan, ZHANG Yuxuan, WANG Wei
City University of Hong Kong	Selective Oil-absorbing Eco-Friendly Materials Developed by Simple Chemical Modification	CityU: Prof. KO Chi Chiu Vincent, CHUN Yuen Kiu, Dr. NG Chi On, Dr. XIAO Yelan
Doctech HK Limited	Nanotwinning-assisted Structurally Stable Copper for Fine-pitch Redistribution Layer in 2.5D/3D IC Packaging	Doctech HK Limited, City University of Hong Kong (HK Tech 300)

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Silver Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Electrical and Mechanical Services Department	Use of Artificial Intelligence, Drone and Remote Sensors for Tower Inspections	Electrical and Mechanical Services Department
Electrical and Mechanical Services Department	City-level Robotic Inspection and Diagnostic System for Building Systems	Electrical and Mechanical Services Department
Electrical and Mechanical Services Department	A.I. Real-time Lift Door Inspection System	Electrical and Mechanical Services Department
Electrical and Mechanical Services Department	AI Voicebot Training System with Performance Evaluation for Call Centre Agents	Electrical and Mechanical Services Department
Electrical and Mechanical Services Department	3D printed Trap case and T-Shaped Bait Box for rodent control and management	Electrical and Mechanical Services Department
HK Super Carbon Nano Technology Limited	Gram-scale Pyrolytic Self-driven Synthesis of Carbon Nanotubes	HK Super Carbon Nano Technology Limited, City University of Hong Kong (HK Tech 300)
Hong Kong Applied Science and Technology Research Institute Company Limited	Optical Security Label for anti-counterfeit, data encryption & storage	Mr. Kenny CHAN
Hong Kong Applied Science and Technology Research Institute Company Limited	Method and Apparatus for Virtual Avatar Generation	Ms. Zhuoxuan LI, Ms. Jingyi XU
Hong Kong Applied Science and Technology Research Institute Company Limited	Full-dome laser scanner	Mr. Weiwen YU, Mr. Can LIU
Hong Kong Applied Science and Technology Research Institute Company Limited	Advanced lighting system for large-scale green architecture applications	Dr. CHEUNG Sui Pung, Victor, Mr. YEUNG Kai Wing, Andy
Hong Kong Applied Science and Technology Research Institute Company Limited	5G Time-Sensitive Communications for New Industrialisation	Mr. Jianjun ZHANG, Liang DONG
Hong Kong Applied Science and Technology Research Institute Company Limited	Image Processing Method For Multi-frequency Ultrasound Probe Device	Mr. Rihong CHEN, Mr. Hanqiang HUANG



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<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Hong Kong Industrial Artificial Intelligence & Robotics Centre (FLAIR)	AssemblyWise: Intelligent Sequence Planning	Hong Kong Industrial Artificial Intelligence & Robotics Centre (FLAIR)
Hong Kong Industrial Artificial Intelligence & Robotics Centre (FLAIR)	Logistics Process Intelligent System	Hong Kong Industrial Artificial Intelligence & Robotics Centre (FLAIR)
Hong Kong Productivity Council	Power-hawk Inspector: A Drone-based Power Grid Defect Inspection Equipment using Federated and Few-shot Learning	Hong Kong Productivity Council
Hong Kong Productivity Council	Super Mario Bros - Mario & Luigi Firefighting Support Mobile Robots	Hong Kong Productivity Council
InnoSpire Technology Limited	WeVoice Glasses	InnoSpire Technology Limited, City University of Hong Kong (HK Tech 300)
ITsci Company Ltd.	Alstain: AI Virtual Immunostaining for Diagnostic Pathology	CityU: Prof. Condon LAU, Prof. Xinyue LI, Prof. Fraser HILL, Dr. Irfan AHMED, Wei ZHANG
King Mongkut's University of Technology Thonburi	Portable oxygen canister for enhanced freshness and disease prevention	A. Khantachawana, S. Amornthitipong, N. Pongprasert, V. Srilaong, P. Rittarwet, King Mongkut's University of Technology Thonburi
King Mongkut's Institute of Technology Ladkrabang	Vertical planting set with root watering system	M. Attavanich, K. Pollasup, R. Boonbutra, King Mongkut's Institute of Technology Ladkrabang
Logistics and Supply Chain MultiTech R&D Centre	AIoT Herbal Picking and Delivery System for Traditional Chinese Medicine Hospital	Logistics and Supply Chain MultiTech R&D Centre
Logistics and Supply Chain MultiTech R&D Centre	RFID Device (Two-piece Device for Tolling Application)	Logistics and Supply Chain MultiTech R&D Centre
Logistics and Supply Chain MultiTech R&D Centre	Vehicle Detection and Alert System for Better Mobility	Logistics and Supply Chain MultiTech R&D Centre
Logistics and Supply Chain MultiTech R&D Centre	Robo-9 with Multi-Sensor Technologies for Visually Impaired	Logistics and Supply Chain MultiTech R&D Centre



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<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
MT Natural Herb Company Limited	ME YOUNG medicinal soap by Thai traditional herbals for skin diseases treatments	Korawinwich boonpisuttinant, MT Natural Herb Co., Ltd.
MTR Corporation Limited	Real Time Computer Vision Based Inspection Device for Escalator Clearance	MTR Corporation Limited
MTR Corporation Limited	AI Sensors Fusion Technique in Train Bogie Maintenance	MTR Corporation Limited
MTR Corporation Limited	Automatic Railway Intelligent Shunting Application (ARISA)	MTR Corporation Limited
NerOcean Limited	A New Generation of Dissolved Oxygen Sensor Using Replaceable Photo-sensing Film	NerOcean Limited, City University of Hong Kong (HK Tech 300)
Simply Mask Ltd	Smart-hygiene Toilet Robot	Siu Tung LUI, Man Ngo Corina CHENG
SmartSkyBuilder	CitySkyPlan: AI Algorithms for Drone Delivery Routes and Traffic Management	SmartSkyBuilder, City University of Hong Kong (HK Tech 300)
Soteri Technology Limited	Soteri Sensor & Cloud Platform	Soteri Technology Limited
Sramek Insight Limited	Wearable Noninvasive Cardiovascular Sensor	Sramek Insight Limited, City University of Hong Kong (HK Tech 300)
Super Bamboo Limited	Super Bamboo: High Performance Non-toxic Low Embodied Carbon Engineered Bamboo Material	Super Bamboo Limited, City University of Hong Kong (HK Tech 300)



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Silver Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Taizhou Hongda Electric Power Construction Co., Ltd.	A Master-Slave Control Based Robot for Live-Line Composite Insulator Maintenance	Taizhou Hongda Electric Power Construction Co., Ltd.
Thammasat University	Trace EBN: A Traceability Platform for Genuine Swiftlet Nest	J. Thavorn, S. Ekgasit, P. Ausawanetmanee, W. Klongthong, Thammasat University
Thammasat University	Miracle concentrated curcumin facial cream	K. Anan, S. Srikram, W. Thepbandit, D. Athinuwat, Thammasat University
Thammasat University	Dietary supplement for damaged and degraded skin care	K. Anan, W. Thepbandit, D. Athinuwat, Thammasat University
The Chinese University of Hong Kong	Novel Sustainable Inorganic Hollow UV Filters for Cosmetic Applications	To NGAI, O-Spheres Limited
The Education University of Hong Kong	Nano-Sensor System for Meat and Seafood Monitoring	Prof. Cheuk Fai Stephen CHOW
The Education University of Hong Kong	An Intelligent Ocular Misalignment Measurement System	Dr. Hong FU, Ms. Beibei HOU
The Hong Kong and China Gas Company Limited	Smart Controller	The Hong Kong and China Gas Company Limited
The Hong Kong and China Gas Company Limited	Smart Kitchen Solution	The Hong Kong and China Gas Company Limited
The Hong Kong and China Gas Company Limited	Smart Safety Gas Meter	The Hong Kong and China Gas Company Limited



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Silver Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
The Hong Kong Polytechnic University	Mixed Reality-based Radiotherapy and Imaging Simulation for Clinical Education and Services	Dr Lee Wee Yee Shara, Dr Leung Wan Shun Vincent, Dr Law Ka Wai Helen, Mr CHING Chi Fung Jerry, Dr Chung Kin Hung Jacky
The Hong Kong Polytechnic University	ZC-01TM: Fully Automatic Commercial Washroom Cleaning Robot	The Hong Kong Polytechnic University, ZeeqClean Technology Limited
The Hong Kong Polytechnic University	Contrast-free Virtually-enhanced MRI for Precise Tumour Treatment in Carcinoma	Prof. Cai Jing, Mr Ma Zongrui, Dr Li Wen, Dr Zhang Jiang, Dr Li Tian
The Hong Kong Polytechnic University	Light Field Microscope Imaging and 3D Visualizing System	The Hong Kong Polytechnic University, Watts Optical Instruments Limited
Wuhan University of Technology	A Method for Coverage Path Planning of Unmanned Vessels	Mr. Yong MA, Mr. Xinping YAN



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Bronze Award

<u>Company Name</u>	<u>Invention Project Name</u>	<u>Inventor</u>
Chulalongkorn Demonstration Elementary School	O-NE CASE air purifier	T. Prasitdumrong, P. Udomsawaengsup, S. Prasitdumrong, L. Udomsawaengsup, J. Jitrotjanarak, Chulalongkorn Demonstration Elementary School
Chulalongkorn Demonstration Elementary School	Germ Guard Goo (G.G.G)	Warinsaya Sereepapong, Phichphanita Mathasuriyapong, Chulalongkorn Demonstration Elementary School
Chulalongkorn University	WELL Weaver : Weaving Invention for Wellbeing and Sustainable Decoration	S. Boonyananta, J. Jitrojanarak, S. Imsamraan, N.Charoenchanakit, Chulalongkorn University
Digitized Cleaner Cities Lab, Peking University	Dynamic Urban Simulator	Digitized Cleaner Cities Lab, Peking University
Eternal Technology Concept Limited	ETBadge	Eternal Technology Concept Limited
Logistics and Supply Chain MultiTech R&D Centre	Baby Tag and Baby Tracking Management Control System	Logistics and Supply Chain MultiTech R&D Centre
Logistics and Supply Chain MultiTech R&D Centre	Tele-practice Platform System	Logistics and Supply Chain MultiTech R&D Centre
Micro Sensing and Imaging Technologies Limited	Multispectral Tonoateriography Imaging Device and Method	Micro Sensing and Imaging Technologies Ltd, CityU (HK Tech 300)
Princess Chulabhorn Science High School Pathum Thani	BSM : Innovative Friendly Bio-based Surfactants for Mangrove Conservation	W. Uttama, C. Harnharnlert, M. Wiriyasunthornwong, P. Kanjanawattana, Y. Sarojakaranun, K. Klaythong, Princess Chulabhorn Science High School Pathum Thani
The Chinese University of Hong Kong	Secretome derived from fetal goat stem cells under hypoxic condition for skin regeneration	Department of Orthopaedics and Traumatology at The Chinese University of Hong Kong
The Chinese University of Hong Kong	ARIA-diabetes risk	Benny ZEE, Health View Bioanalytic Limited
The Hong Kong Polytechnic University	Autonomous-legged Robotic Dog Providing Navigation Support for the Blind	Kenneth FONG, Jacky CHUNG
Wearable Intelligent Sensing Technologies Limited	A Tonoarteriography-based Close Loop Drug Delivery Device for the Monitoring and Therapy of Hypertension	Wearable Intelligent Sensing Technologies Limited, CityU (HK Tech 300)