

# iCAN 2021 “THE FINALS” AWARD WINNERS LIST

The 6<sup>th</sup> International Invention Innovation Competition in Canada, iCAN 2021

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# INTERNATIONAL SPECIAL AWARD

## World Invention Intellectual Property Associations (WIIPA)



No.	Country	Organization	Inventor(s)	Title of Invention
1	Brunei	CHAINEXT ENGINEERING SERVICE AND SUPPLY SDN BHD	ALEX YIP CHEE SIANG JEFFREY YONG TZYU SHANN	SIMCOM Wellhead Hydraulic Control System
2	Malaysia	Universiti Malaysia Kelantan Jeli Campus	Dr. Ch'ng Huck Ywih Gunavathy a/p Selvarajh Dr. Norhafizah binti Md Zain	Agro Wastes to Organic Amendments Improves Soil Health and Crop Productivity without Polluting the Environment
3	Canada	N/A	PARAMASEELAN VITHURSHAN	ANTIMICROBIAL MACHINE
4	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Ivanova Sofiia	System of fast heating of the gas reducer-evaporator - "Quick Start"
5	Thailand	Rajamangala University of Technology Srivijaya	Mr. Dachsak Wijitphan Miss Rungtip Rattanapon	Crispy Puffed Brown Job's Tears
6	Philippines	Good Shepherd Academy of Victoria Inc.	Christia Mae L. Maramot	Cot-Tray: The Utilization of Textile Waste as Seed Starting Tray
7	Malaysia	Universiti Teknologi Malaysia / Universiti Kebangsaan Malaysia	AP Dr. Akbariah Mohd Mahdzir Dr. Norhayati Mohd Noor	Marital Strength Scale (MSS) and m <sup>2</sup> CODE Model
8	Indonesia	Indonesian Research Institute for Biotechnology and Bioindustry, PT Riset Perkebunan Nusantara	Dr. Laksmi Prima Santi, MSi Prof (R) Ir. Didiek Hadjar Goenadi, MSc, PhD	BIOSILAC FERTILIZER AS THE NEW EMERGING NUTRIENT SUPPLY TO ACHIEVE PREMIUM CROP GROWTH AND YIELD
9	Macedonia	Yahya Kemal College - Skopje	Meryem Alkin Engin Alkin Ahmet Tarik Dinc	Vinegars: Apple, Aronia, Plum, Hawthorn "Apple, Aronia, Plum, Hawthorn-wonder plants that removes heavy metals from water"
10	Lebanon	National Association for Science and Research	Wael Khalil	Customized Porous Supracrestal Implant and Material and Methods Forming Them
11	Spain	ARTINDUSTRI MENORCA S.L.U.	ANTONIO SASTRE SEGUÍ	COMPLEMENT FOR SANDALS
12	Malaysia	Universiti Putra Malaysia	Johan Ismail Nur Eliza Abd. Rahman Nurdiyana Ahmad Denil Rozihan Mohamed Ahmad Nasir Mohd. Yusoff	The JOME Card Games: Gamifying Education

13	Macedonia	Yahya Kemal College - Skopje	Kristijan Nikolov	Multipurpose Organic Anti-Rash Cream
14	Malaysia	Universiti Sains Malaysia	Wong Xin Ying Zarul Fitri bin Zaaba	MyHalal (MH)
15	Malaysia	Universiti Malaysia Pahang	Wan Norfazilah Wan Ismail Hartina Mohd Yusop Nur Nabilah Mohd Za'im	GetDry! – Get dry with nano waterproof spray!



## INTERNATIONAL SPECIAL AWARD

### Macao Innovation and Invention Association (MIIA)



No.	Country	Organization	Inventor(s)	Title of Invention
1	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Olena Kovalenko	Obtaining alternative energy from tree fluctuations
2	USA	Wheel Potential, LLC	Giuseppe Del Giudice	B-posi+ive
3	Mexico	UAEM, UNAM, TECHNOLOGICAL INSTITUTE OF TOLUCA	Thania Monserrat Montoya Olmedo Jesus Manuel Montoya Tinajero Emmanuel Alejandro Montoya Olmedo Martin Eduardo Mujica Marisol Rossano Camacho	AXOLCARE (Automated system for preservation and conservation of species)
4	Malaysia	SULTAN IDRIS EDUCATION UNIVERSITY	OH ZI JIAN KHOO YIN YIN MARINAH AWANG	Development of the blue ocean leadership model toward employee engagement and team performance among lecturers in vocational colleges
5	Iraq	Salahaddin University / Erbil Polytechnic University	Tavga Sulaiman Rashid Hayman Kakakhan Awla	Nanoemulsion Biopesticide (Rhuscor)
6	India	Don Bosco College of Engineering, Goa, India	Dr. Gaurang S Patkar	Buttery Pea flower Petal Wine and its method of Production
7	Thailand	Faculty of Pharmacy, Chiang Mai University	Asist. Prof. Dr. Ruttiros Khonkarn	Soluble turmeric extract in Thai coffee product
8	Malaysia	Universiti Teknologi Malaysia (UTM)	Assoc. Prof. Dr. Malarvili Bala Krishnan Om Prakash Singh Dr. Teo Aik Howe	Smartphone Application Based Respiratory Illness Monitoring Device (Ibreathe)
9	USA	Science & Technology Group LCC	Grigori Lishanski Oleg Lishanski	Lishanski's Vibratoty cavitation pump, US Patent US 9,062,664 B2 and US 8,353,213

10	Qatar	Qatar University	Dr. Noora Jabor Al-Thani Shahad Alkhair	Ingenious methodology for digitizing learning models by creating a real-world lab-like environment at home
11	Malaysia	VERTICALS-High Impact Research Laboratories, Taylor's University, Malaysia	Chockalingam Aravind Vaithilingam	Gyro VAWT - Independent Energy Generating Unit
12	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Nikita Miroshnichenko	An innovative approach to genetic contamination and increasing the efficiency of plant breeding based on using phylogenetic mapping by the example of the genus <i>Iris L.</i>
13	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Stanislav Skorobogatov Yuriyovych	Usage of the Peltier element to recover the electric energy in the hybrid
14	Philippines	Good Shepherd Academy of Victoria Inc.	Christia Mae L. Maramot	Cot-Tray: The Utilization of Textile Waste as Seed Starting Tray
15	Thailand	Rajamangala University of Technology Srivijaya Trang Campus	Dr. Supatcha Chooseangjaew Prof. Dr. Suwat Tanyaros Miss Tuanjai Piyang Miss Kattinat Sagulsawasdipan Mr. Pumin Inpan	3-Layers Sliding Plastic Mesh Nets for Oyster Culture System



## INTERNATIONAL SPECIAL AWARD

### Turkish Inventors Association (TÜMMİAD)



No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	SEKOLAH MENENGAH KEBANGASAAN KULIM (SMKK) -SCHOOL	Avinaash S/O Ramani Ughanthinii D/O Kaliyappan	ARIES – A CONCEPT TO BE A SOLUTION FOR GLOBAL WARMING, ENERGY SAVING, AND FILTER EFFICIENCY
2	Pakistan	CMA Choi Cheung Kok Secondary School	ILYAS Shehzadi Noor	"Phone Safer" - Charge them Safe
3	Egypt	N/A	Dr. Zaky Abd EILatif Zaky Abdellatif	Simply manual winch for handicap, paralyzed & special needs for all uses
4	Singapore	SINGAPORE INVENTORS DEVELOPMENT ASSOCIATION	MR LEOW WEE DAR	AIRBORNE PATHOGENS BUSTER (APB)
5	Malaysia	OMINENT SDN BHD	OMINENT SDN BHD	ECOCOAT TITAN – DURABLE PHOTOCATALYST CERAMIC COATING

6	Hong Kong	Lai King Catholic Secondary School	Yang Yuen Ting Tse Yee Lam Chuang Kam Yuk Lee Pui Yan	Trendy Toilet
7	Malaysia	Universiti Kebangsaan Malaysia (UKM), Malaysia	Shahrul Nizam Mohamad Razali Sheerad Sahid	'TEACHA' – (Tutor, Expert and Coaching Assistant) apps
8	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Volodymyr Pavlenko	Development and Rescue of a Colony of Ants of the Species <i>Formica rufibarbis</i> Fabricius, 1793
9	Korea	Clean Living Science	OH MOONSEOB OH DAYEON LEE YAESOO	Blade Cleaner - Sseuksak (3-piece set) <i>The Multi-Purpose Silicone Broom</i>
10	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Semenenko Andrii	METHOD OF RESEARCH OF HEAT-INSULATING PROPERTIES OF MATERIALS
11	Hong Kong	The Education University of Hong Kong	Prof Kevin Chung Kien-hoa Dr Ian Lam Chun-bun	The Chinese Inventory of Children's Socioemotional Competence (CICSEC)
12	Indonesia	Universitas Sebelas Maret	Fadhilillah Isaac Kartika Philip Purwoko Adi Panuntun Avena Norma Malikhah Christopher William Purnomo Royan Gagas Pradana Rafli Yuda Pamungkas Paramasari Dirgahayu, dr. PhD	DOVI (Detection Object of Virus Interaction)
13	Malaysia	UCSI University, Kuala Lumpur, Malaysia	Assoc. Prof. Dr. Ganeshsree Selvachandran (Team Leader) Assist. Prof. Dr. Quek Shio Gai	iConMix: An Automated Intelligent Mixing System for Optimal Concrete Mixing Powered by Machine Learning and Complex Fuzzy Logic
14	Hong Kong	Shun Tak Fraternal Association Yung Yau College	Kwok Yee Kan, Celia Kwok Yee Ki, Cassy Ng Ethan Wong Cheuk Nam, Andrew	STAD
15	Malaysia	Kolej Vokasional Sungai Petani 2	Razis Bin Rahim Radziah Binti Lateh Sharon Agapitus Azhawati Binti Mohd Noor Hazieque Aqashah Bin Mohd Famy	Pumpkin Dodol (Pressure Cooking Technique)



Eurobusiness – Haller

# INTERNATIONAL SPECIAL AWARD

## EUROBUSINESS–HALLER & Haller Pro Inventio Foundation



HALLER  
pro inventio  
FOUNDATION

No.	Country	Organization	Inventor(s)	Title of Invention
1	Hong Kong	King's College	LIU MINGXIN KWAN CHIU MING NGAN KA PUI	A Practical Alginate-based Synthetic Differentially Permeable Membrane System for Metal Ions Separation
2	Malaysia	IIUM JUNGLE SCHOOL INITIATIVES FLAGSHIP, AAD KAED AND JUNGLE SCHOOL GOMBAK MALAYSIA	ASST PROF DR NORZALIFA ZAINAL ABIDIN KALAM BIN PIE AINA SUHAILA BT MOHD NIZA	JUNGLE SCHOOL SUSTAINABLE COMMUNITY BASED TOURISM AND OUTREACH INNOVATION ENHANCEMENTS
3	Thailand	Suan Sunandha Rajabhat University	Dr. Yuttana Sudjaroen Dr. Kanittada Thongkao Mr. Narin Kakatum	Klear-Throat: Traditional Thai herbal lozenges
4	Thailand	Suan Sunandha Rajabhat University	Mr.Narin Kakatum	Mordia: Sunscreen gel <i>form Momordica cochinchinensis</i>
5	Indonesia	Medicine student, Tehran Medical Islamic Azad University, Tehran, Iran / Senior high school student, Tzu Chi Secondary School PIK, DKI Jakarta, Indonesia	Hesam Adin Atashi Felicia Agatha	AI-powered portable device for screening, diagnosis, and treatment of COVID-19 disease
6	Malaysia	Faculty of Medicine – Universiti Teknologi MARA (UiTM)	Dr. Hassanain Al-Talib Dr. Alyaa R Mahmood Prof. Ariza Adnan Dr. Chan Yean Yean	A Multiplex PCR rapid detection kit of hemorrhagic bacteria from stool samples
7	Korea	Korean Minjok Leadership Academy	Taekyung Lee	The gyroscopic eddy current pendulum damping system for the stabilization of buildings in seismic waves
8	Malaysia	Universiti Putra Malaysia	Norhashila Hashim Maimunah Mohd Ali Samsuzana Abd Aziz Ola Lasekan	SMART SENSOR FOR FRUIT RIPENESS DETECTION
9	Malaysia	Universiti Tunku Abdul Rahman	Prof. Dr. Sumathi Sethupathi Assoc. Prof. Dr. Mohammed JK Bashir Assoc. Prof. Dr. Yamuna Munusamy	EggSORB
10	Malaysia	Universiti Teknologi MARA (UiTM) Shah Alam	Nur Auni Izzati Jusoh Nur Aini Sabrin Manssor Nor Fazli Adull Manan Praveena Nair Sivasankaran Jamaluddin Mahmud	MORINGA OLEIFERA BARK – SILICONE BIOCOMPOSITE (MOBSil): A novel soft composite material for cushioning applications



# INTERNATIONAL SPECIAL AWARD

## Romanian Inventors Forum (FIR)



No.	Country	Organization	Inventor(s)	Title of Invention
1	Canada	N/A	Summy chi sum PUN	Eco-Friendly Smart Clean Toilet Board
2	Malaysia	University of Malaya	Assoc. Prof. Dr. Noraini Ahmad Prof. Dr. Rauzah Hashim Syaidatul Atiqah Sazalee	Self-Assembly Properties of Nonionic Glycolipid Hexosomes: Effect of Co-surfactant
3	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Krysanov Denys Dmytrovich Senenko Nataliia Borysivna Litovchenko Olena Ivanivna	DEVELOPMENT OF IMPROVING DRINKING WATER QUALITY METHOD BY FREEZING AT HOUSEHOLD CONDITIONS
4	Canada	E-CRACK TECHNOLOGIES INC.	Milad Feyzi Merat Feyzi Mohammad Reza Feazi Mani Feyzi	Ecrack
5	Indonesia	University of Brawijaya	Saffanah Fajar Kurniawan Herlin Sri Wahyuni	MY.UMKM APPLICATION IN ENCOURAGING MSME'S TO IMPROVE THE ECONOMY IN THE MIDDLE OF COVID-19 PANDEMIC
6	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Hooman Edraki Mahan Edraki Kasra Ahmadniay Bousari	Muscle memory rehabilitation glove based on bending fingers
7	Malaysia	UCSI University, Kuala Lumpur, Malaysia	Assoc. Prof. Dr. Ganeshsree Selvachandran (Team Leader) Assist. Prof. Dr. Quek Shio Gai	iConMix: An Automated Intelligent Mixing System for Optimal Concrete Mixing Powered by Machine Learning and Complex Fuzzy Logic
8	Hong Kong	Shun Tak Fraternal Association Yung Yau College	Chan Ying Yik Leung Wang Sum Ngan Tak Shing Yau Siu In	Intelligent traffic identification and control system
9	Malaysia	VOCATIONAL COLLEGE OF SUNGAI BULOH	FIRDAUS BIN MOHAMAD YUELDA MARLIANA BINTI YUDASRIL NUR HUMAIRA BINTI ABDUL RAHIM NUR IFFAH BINTI MD BADRU	SCI-POLY – LEARNING SCIENCE THROUGH GAMES
10	Malaysia	UNIVERSITI TEKNOLOGI MARA	MOHAMAD MALI NOOR IDAYU MOHD TAHIR AHMAD KAMIL HUSSAIN MOHAMAD KHAIRULNIZAM MOHD RUSLAN JAMALUDDIN MAHMUD	CHyCLOP - Compendious Hybrid Composite Failure Load Predictor



# INTERNATIONAL SPECIAL AWARD

## Korea Invention Academy (KiA)



No.	Country	Organization	Inventor(s)	Title of Invention
1	USA	Parking Lock Box LLC	Edward Paul Laskowski Jason Glen Squier	Vehicle Lock Box
2	Romania	University POLITEHNICA of Bucharest	Denisa FICAI Ioana ARDELEAN Cornelia ILIE Manuela CĂLIN Elena-Valentina FUIOR et al.	Vertical (electro)magnetic separator of isomagnetic nanoparticles A/01055/05.12.2018
3	Malaysia	Multimedia University	Dr. Leow Meng Chew Dr. Ong Lee Yeng Prof. Lau Siong Hoe Prof. Koo Voon Chet Mr. Leow Kang Ren Mr. Lai Guo Yao Mr. Loo Eng Keong	Connected and Interactive Advertising Campaign (Connect-Interact)
4	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Olha Borovyk	Lens with variable optical characteristics
5	Philippines	Pitogo High School	ROLLIE ANNE R. SALVADOR KATE D. MONTERO	MECHANICAL PROPERTIES OF PILI (Canarium ovatum) NUTSHELL REINFORCED IN RECYCLED POLYETHYLENE BIO-COMPOSITE

**- END OF INTERNATIONAL SPECIAL AWARDS SELECTIONS -**

**- CANADIAN SPECIAL AWARDS SELECTIONS ON NEXT PAGE -**



No.	Country	Organization	Inventor(s)	Title of Invention
1	Malaysia	Universiti Teknologi MARA	ASSOC. PROF. TS. DR. WAN ABDUL RAHIM BIN WAN MOHD ISA DR. AHMAD IQBAL HAKIM BIN SUHAIMI DR. NURULHUDA BINTI NOORDIN SULAINI A/L HUSSAIN	Virtual Reality of Sewang Dance by Semai People for Indigenous Tourism
2	Ireland	University College Dublin	Rachel Howe Sandra Nicholson Carmel Davies Attracta Lafferty Thilo Kroll	CAAI: Co-design of an Animal Assisted Intervention by young people for a Children's Hospital in Ireland
3	Saudi Arabia	Jeddah University	Dr. Mona Mohammad Zaid AL-Sharif	Chromosomes Spreading Tool
4	Hong Kong	King's College	Cai Gen Chung Shing Hei Fung Tin Yau Kwong Ming Hin Woo Chi Lok Garyson	Cherishing Older People System
5	India	Don Bosco College of Engineering, Goa, India	Dr. Gaurang S Patkar	Buttery Pea flower Petal Wine and its method of Production
7	Pakistan	CMA Choi Cheung Kok Secondary School	ILYAS Shehzadi Noor	"Phone Safer" - Charge them Safe
8	Poland	The Complex of School No 6 in Jastrzebie-Zdroj, Poland	PAULINA FRĄTCZAK ADRIAN GRZONKA TUTORS: LIDIA GAJDZIK BARBARA HALSKA JERZY MADUZIA	The influence of different breeding conditions of Galleria Mellonella larvae on the possibility of recycling polyethylene from the natural environment
9	Malaysia	International Islamic University Malaysia (IIUM) and University of Malaya (UM)	Asst. Prof. Dr. Nur Ayuni Jamal Assoc. Prof. Dr. Farazila Yusof	Designing A Newly Energy Absorber Potential Based on Closed-Cell Porous Aluminum for Automotive Application
10	Malaysia	Sekolah Menengah Sains Selangor	Nur Azrinadhirah Binti Shahril Nizam Nurain Binti Hamdan Nur Athirah Syabilah Binti Azeman Qaseh Adilla Binti Saifullah	Greenhouse Smart Grow (GSG)

11	Russia	Don State Technical University / Southern Federal University	Miroshnichenko Igor Pavlovich Parinov Ivan Anatolievich	Complex of optical interference devices for contactless measurements of small surface displacements of control objects
12	Poland	Zespół Szkół Technicznych w Rybniku	Daniel Czech Mateusz Niedobecki	ISP - Intelligent Air Filtration and Ventilation System & SMOGBASE
13	Hong Kong	Lai King Catholic Secondary School	Yang Yuen Ting Tse Yee Lam Chuang Kam Yuk Lee Pui Yan	Trendy Toilet
14	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Somayeh Ilkhanimahabadian	Air purifier with IOT interface
15	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Yasan Hajigholizadeh Alireza Arabi Seyed Alireza Soleimani Hirad Lotfimanesh	The bottom part of the elderly health walking stick that used for the people who fall down or had changes in the vital signs is like an origami structure
16	Thailand	Thammasat University	Assoc.Prof.Dr. Jinpitcha Mamom Assist.Prof.Dr.Bunyong Rungreungdouyboon Mr. Chawakorn Sri-ngernyuang Mr. Patipharn Rasarak Mr. Supachai Rakkaew	Automatic lateral repositioning bed with body pressure sensing mattress
17	Philippines	HOLY INFANT ACADEMY OF CALAPAN	ANTONIO GABRIEL A. GOCO	H.I.N.T.O (Human Intoxication Notification Tool for Vehicles)
18	Hong Kong	City University of Hong Kong	LIU Sai DU Yuwei LEE Hau Him ZHU Yihao TSO Chi Yan	An intelligent and thermally-responsive window (ITRW) for indoor thermal management and energy-saving in buildings
19	Malaysia	INSTITUTE OF TEACHER EDUCATION, SARAWAK CAMPUS, SARAWAK, MALAYSIA & SJKC MANONG, KUALA KANGSAR PERAK, MALAYSIA.	HU LAEY NEE NORSARIHAN AHMAD TAN YOONG MING MUHAMMAD HARITH MOHD ALI HANAFIAH	CRACK THE NUMBERS (CTN)
20	Qatar	Qatar University Young Scientists Center (QUYSC)	Baina Saeed Al-marri Hemalatha Parangusan Enas Fathy Elhawary	Novel Electrospun Nanofibers scaffolds for Tissue Engineering applications
21	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Fatemeh Tashtzar	Foldable and portable energy panels
22	Romania	National Institute for Research and Development for Land Improvements, Bucharest, Romania (INCDIF ISPIF)	Niculae Nicușor	Water running engine

23	Macedonia	National Association of Inventors of Macedonia (NAIM)	Dr Dragan Jovanov	Agrophyto tonic with atomic absorption of macro and micro elemental action and properties of parts of herbal plants white clover root and flower, walnut leaf and bark, Macedonian oak and basil root with specific geo-climatic and initial conditions from a certain territory for improvement of health in patients with Multiple sclerosis.
24	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Oleksandr Sharlai	Impact of heat stress on lipid peroxidation and ascorbate peroxidase activity in Nicotiana tabacum
25	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Hlib Nikishyn	Mobile application for learning words «LEARN WORDS EASILY (LWE)»
26	Thailand	Rajamangala University of Technology Srivijaya	Mr. Natapon Kaewthong Asst.Prof.Naras Kwanthong Asst.Prof.Chayanat Buathongkhue Mr.Torlap Kanplumjit	An Internet of Things Based System for Agriculture Water Resource Management Innovation
27	Malaysia	SULTAN IDRIS EDUCATION UNIVERSITY	OH ZI JIAN KHOO YIN YIN MARINAH AWANG	Development of the blue ocean leadership model toward employee engagement and team performance among lecturers in vocational colleges
28	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Mohammad Naeim Jalali	Intelligence and rescue health wrist band
29	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Alireza Sajedi Neda Sajedi	Optimization of Hydraulic Fracture Procedure in the Oil and Gas Industry
30	Cambodia	Norton University	Mr. Kanan Torn Mr. Mesa Samneang Ms. Heng Sovanmonynuth	NU Power Strip
31	Cambodia	Norton University	Ms. Heng Sovanmonynuth Mr. Sam Bandithviphou Mr. Phalinhour Sorn Mr. Manuth Sorn	NU Smart Attendance
32	Spain	ARTINDUSTRI MENORCA S.L.U.	ANTONIO SASTRE SEGUÍ	New traction device for Sandals
33	Poland	Institute of Computer Science, Kazimierz Wielki University in Bydgoszcz, Poland; EFREI Paris - École d'Ingénieur Généraliste en Informatique et Technologies du Numérique in Paris, France	Krzysztof Tyburek Catherine Marechal Dariusz Mikołajewski Katarzyna Węgrzyn Wolska Piotr Prokopowicz Lamine Bougueroua	AI-BASED PLATFORM FOR SEMI-AUTOMATIC SYSTEMS FOR MULTIPURPOSE EMOTION DETECTION
34	Poland	University of Economy in Bydgoszcz	Andrzej Ostrowski, PhD Olexander Skaliy, dr Tetiana Skaliy, dr Arkadiusz Stanula, PhD	MULTI-PURPOSE CATAMARAN WITH REPLACEABLE DECKS

35	Malaysia	MAKTAB RENDAH SAINS MARA JELI	AZMY BIN AWANG MOHAMAD KHAIRULLAH BIN ATAN ANIQ NOR RAHIMI BIN ABU SEMAN AMNI BALQIS BINTI ZURKURNAI NURAINA NAFEESA BINTI ABDUL HAKIM	Greentech PedunCube
36	Lebanon	National Association for Science and Research	Mazen Abdullah	Vehicle Safe System
37	Thailand	Chulalongkorn University Demonstration Elementary School	Thitchaya Monkong Napassanun Sumetpimolchai	iMedicare Solution
38	Thailand	Chulalongkorn University Demonstration Secondary School	Jisue Youn Kumwilaisak Ratchapon Thammacharo Narapat Hengarnlai Phinyada Thanyawan Wanich Chiowanicha Peerawat Pannattee	INFING: INtelligent ASL FINGerspelling tutoring system
39	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Vahid Razban Mohammadreza Zare Seyed Ahmad Razavizadegan Navid Farazinia Kimia Behnamifar Forough Heidarbeikifard Mohammadsaber Tamaddon	A device for sectioning cancerous tissue in desired thickness
40	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Dr. Shiva Najigivi Dr. Seyedahmadreza Mirmotallebi Dr. Alireza Najigivi	Three-dimensional device for the prevention and treatment of all head and face pain without medication with the combined effect of frequency, light and vibration
41	Korea	Seoul Foreign School	Jung Ju Yeon	Noise Filtering in Binary Space and Multispace using Principal Component Analysis
42	Korea	Singapore American School	Jang Kyung Choi	Stock Investment Trends Evaluation System by Using AI and Big Data
43	USA	Science & Technology Group LCC	Grigori Lishanski Oleg Lishanski	Lishanski vibrating transport device and associated method for movement of objects on vertical, horizontal and inclined basic surfacets; US Patent 10, 214 398 B2
44	Hong Kong	The Education University of Hong Kong	Prof Jim Chi-yung Prof John Lee Chi-kin Dr Alice Chow Sin-yin Other members of the TALE project team from EdUHK	Tree Assessment for Life Education (TALE) Project
45	India	MIDDLESEX UNIVERSITY, DUBAI	Mrs. CHINNU MARY GEORGE	Leaf Therapy excellence Prognostication using Machine Learning

46	Serbia	University of Belgrade	Aleksandra Ivetic	Silage stabilizers
47	Malaysia	School of Housing Building & Planning, Universiti Sains Malaysia	Dr. Mohd Hafizal Bin Mohd Isa Muhammad Eryad Ahmad Jailani Dr. Muhamad Azhar Ghazali	Textile Waste Applications as Buildings' Sound Insulation Materials
48	Hong Kong	King's College	LIU MINGXIN KWAN CHIU MING NGAN KA PUI	A Practical Alginate-based Synthetic Differentially Permeable Membrane System for Metal Ions Separation
49	Thailand	Rajamangala University of Technology Lanna	Wanphen Jitjaroen Lachinee Panjai Rungtiwa Kongngoen	COFFIVINO : A New Era of Coffee Fermentation
50	Thailand	Srinagarindra the Princess Mother School Phuket	Mr.Tanapat Srikarn Mr.Anus Boothlong Mr. Panupong Sukbanjong Mrs. Supitchaya Puankaew Mrs. Paninee Matthapa	The improvement of sea water by treatment materials and aeration machine
51	Malaysia	Universiti Teknologi MARA	Mohamad Hafiz Mamat Norfarariyanti Parimon Mohd Firdaus Malek Muhamad Kamil Yaakob Mohamad Rusop Mahmood	Ultra-highly Sensitive Flexible Humidity Sensor Based on Novel Nickel Oxide Nanocarnation-Like Mesostructure Film
52	Indonesia	Faculty of Medicine, Diponegoro University	Aulia Salwa Alfaina Muhammad Mufaiduddin Luh Ayu Nanamy KES Adelia Pangesti Nur Indah Meyrianawati Haidar Yusuf Affandy Dr. Rifky Ismail, S.T, M.T dr. Hari Peni Julianti, Sp.KFR, M.Kes	The Effects of Exoskeleton Robotic Hand on the Muscle Strength in Stroke Patients
53	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Hediyeh Hojaji	Smart door lock on IOT platform
54	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Kian Pouraslani	Dentistry light
55	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Larisa yousefi	Multifunctional bandage for blood clotting, pain relief and wound disinfection
56	Thailand	Chulalongkorn University Demonstration Secondary School	Chutirada Santivorapong Nittakarn Phattarachaisiroj Natthanicha Lertsrisakulrat Rungarun Ausawalarp	Deskination
57	Malaysia	Methodist Girls Primary School Kuantan @ SK (P) Methodist Kuantan	Maryam Muzamir	YAM 2.0: Sustainable Livestock Feed

58	Thailand	Chulalongkorn University Demonstration Elementary School	Chayapa Srivoravilai Prin Udomkiatikul Puntharee Lertritcharaskit Piyasoranee winayanuwattikun Picha Banditchutikul	IG Talking Mask
59	Hong Kong	Christian and Missionary Alliance Sun Kei Secondary School	Tsai Ching Man Chim Ching Hei Po Hiu Tung Wong Tze Ching	Octo-Bus : Barrier free Travelling (BUS) System for Visually Impaired person based on ibeacon Positioning & Real Time Database
60	Malaysia	OMINENT SDN BHD	OMINENT SDN BHD	GRAPHENE REINFORCED ECOCOAT KENZO
61	Pakistan	CMA Choi Cheung Kok Secondary School	GURUNG Bidha	"Wash Kids Easy" - a Universal water spout extension
62	Malaysia	University Putra Malaysia	Professor Dr. Vijayaletchumy Subramaniam (Project Leader) Kavenia Kunasegran (Co-Researcher)	MALAY LANGUAGE STAR GRADING SYSTEM
63	Malaysia	Universiti Teknologi Malaysia (UTM)	Assoc. Prof. Dr. Malarvili Bala Krishnan Om Prakash Singh Dr. Teo Aik Howe	Smartphone Application Based Respiratory Illness Monitoring Device (Ibreathe)
64	Hong Kong	Tung Wah College	LAU Ching Hei	Syringe Collector
65	Hong Kong	Caritas Institute of Higher Education	LAU Chun Hei	Safety Window
66	Macedonia	Yahya Kemal College - Skopje	Matej Milosievski Andreja Popovikj	AM:PM Smart Mug: Eco-friendly, 3D Printed Mug w/ Solar powered Wireless Charger
67	Macedonia	Yahya Kemal College - Skopje	Ema Gajdova Elena Popovska	The Potential In Biodegradable Film Obtained From Whey Protein
68	Peru	UNTRM	LOYDA LUZ GUEVARA CASTAÑEDA CARLOS ALBERTO FARJE GALLARDO	DISPOSITIVO INTRAORAL PARA CONTROLAR EL MAL ALIENTO THE INTRAORAL DEVICE AGAINST BAD BREATH
69	Malaysia	Higher Education Leadership Academy (AKEPT)	Ismie Roha Mohamed Jais Erlane K Ghani Azian Mohamad Azman Ahmad Shakirin Zainal Abidin Yazrina Yahya Hanis Maisarah Abu Bakar	Talent Management in Higher Education: A Profiling System Management
70	Qatar	Qatar University	Dr. Noora Jabor Al-Thani Shahad Alkhair	Ingenious methodology for digitizing learning models by creating a real-world lab-like environment at home

71	Malaysia	University of Malaya	Assoc. Prof. Dr. Noraini Ahmad Prof. Dr. Rauzah Hashim Syaidatul Atiqah Sazalee	Self-Assembly Properties of Nonionic Glycolipid Hexosomes: Effect of Co-surfactant
72	Malaysia	Faculty of Education, Universiti Kebangsaan Malaysia (UKM)	Sheerad Sahid Shahrul Nizam Mohamad Razali	Enhancing Agribusiness Entrepreneurs Performance: A Marketing Model for Agricultural Entrepreneurship (MAE)
73	Philippines	Pitogo High School	ROLLIE ANNE R. SALVADOR KATE D. MONTERO	MECHANICAL PROPERTIES OF PILI (Canarium ovatum) NUTSHELL REINFORCED IN RECYCLED POLYETHYLENE BIO-COMPOSITE
74	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Oleksandra Balytska	Development of a mobile application called ‘A map of plant allergens’
75	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Kozachenko Yelyzaveta	Development of “ACTIVE ENGLISH” information educational system for learning English
76	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Anastasiia Lishchenko Supervisor: Vlasenko Tetyana Volodymyrivna, teacher of computer science at Kryvyi Rih comprehensive school of I-III degrees №103;	Steganoling – the software for encoding and decoding hidden text messages using Linguistic Steganography
77	Malaysia	UNIVERSITI TEKNOLOGI MARA	MOHAMAD MALI NOOR IDAYU MOHD TAHIR AHMAD KAMIL HUSSAIN MOHAMAD KHAIRULNIZAM MOHD RUSLAN JAMALUDDIN MAHMUD	CHyCLOP - Compendious Hybrid Composite Failure Load Predictor
78	Malaysia	Universiti Teknologi MARA (UiTM) Shah Alam	Nur Auni Izzati Jusoh Nur Aini Sabrin Manssor Nor Fazli Adull Manan Praveena Nair Sivasankaran Jamaluddin Mahmud	MORINGA OLEIFERA BARK – SILICONE BIOCOMPOSITE (MOBSil): A novel soft composite material for cushioning applications
79	Philippines	Good Shepherd Academy of Victoria Inc.	Villanueva, Rachele De Mesa	SOLAR-POWERED SAND SEPARATOR
80	Thailand	Rajamangala University of Technology Srivijaya	Asst. Prof. Dr. Saowanee Chaipech Asst. Prof. Worapong Boonchouytan Krittaya Nusai Asst. Prof. Jaknarin Chatthong Dr.Sahapong Somwong	Alternative jar coffee roaster to produce immune boosting Thai herb-coffee drip
81	Thailand	Rajamangala University of Technology Srivijaya	Banyat Niyomwas Chalat Tipakornkiat Nattaneeporn Noisangiam	Reducing waste volume with automatic solar-powered trash compactor
82	Thailand	Rajamangala University of Technology Srivijaya	Dr.Pimpisa Promma Dr.Nutworadee Kanittinsuttitong Peachya Buakaew	Lead-free nielloware accessories – Biker Collection

83	Finland	Office Beat Oy	Juha Starck	Oxygen Pin
84	USA	Wheel Potential, LLC	Giuseppe Del Giudice	B-posi+ive
85	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Mohammadreza Zare Vahid Razban Seyed Ahmad Razavizadegan Navid Farazinia Kimia Behnamifar Forough Heidarbeikifard Mohammadsaber Tamaddon	A device for suctioning and cutting brain tumor
86	Germany	Faust-Gymnasium / DEV-KIT-Initiative	HAG-Youth-DEV-KIT-Invention-Team	Third Hand System (THS)
87	Singapore	SINGAPORE INVENTORS DEVELOPMENT ASSOCIATION	MR LEOW WEE DAR	AIRBORNE PATHOGENS BUSTER (APB)
88	Thailand	Muang Nakhon Rice Innovative Community Enterprise – THAILAND	Wiran Mankong	SANGYOD GERM, BLACK RICE BRAN AND A. RACEMOSUS ROOT SERUM (PHUPHA PRAEWA BRAND)
89	Hong Kong	St Paul's Primary Catholic School	BUT CARRIE FONG ALYSSA ZI YING CHIU ELISE WONG SIAN CHOI HAYLEY HIU YI	Air Fan - Deployable shield for aircraft cabin
90	Malaysia	KOLEJ VOKASIONAL TAIPING	MUHAMAD FAKHRUL SYAKIRIN BIN MAGRUL SUHAINI	SMS QUEUE SYSTEM USING MICROCONTROLLER, GSM AND BLUETOOTH DEVICE
91	Malaysia	Kolej Vokasional Sungai Petani 2	Razis Bin Rahim Radziah Binti Lateh Sharon Agapitus Azhawati Binti Mohd Noor Hazieque Aqashah Bin Mohd Famy	Pumpkin Dodol (Pressure Cooking Technique)
92	Hong Kong	Shun Tak Fraternal Association Yung Yau College	Leung Hoi Hin Leung Cho Wai Cheung Yuk Wing Huang Lok Shu	"Schoolbag Check"
93	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Olena Dashynych	New ternary phases of the Er-Ag-Al system
94	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Yelyzaveta Stoliarchuk	WIND GENERATOR BASED ON A SEGNER WHEEL
95	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Artem Yadelskyi	MetaLib - web service for organization and search for book information



96	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Yelyzaveta Yakovenko	Dynamics of the temperature regime of the town of Lubny: trends of changes, consequences, adaptation strategy
97	Malaysia	KOLEJ VOKASIONAL PERDAGANGAN	NURHUDA MD TAHIR ROHIZA HUSSAIN MUHAMMAD AMEEN ATAN NORMALIZA AHMAD SITI NUR MASTURA SULAIMAN	“TOP ASSISTANT : A BLENDED LEARNING TOOL”
98	Korea	Korean Minjok Leadership Academy	Taekyung Lee	The gyroscopic eddy current pendulum damping system for the stabilization of buildings in seismic waves
99	Thailand	Brother Global Co.,Ltd (Innovated by AVS Innovation Co.,Ltd)	Patcharapak Suriwong Khemmaphat Hooncharoen Ploynaphat Chettakullarat	Celltuin™ - a promising natural extract for anti-aging and longevity
100	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Ali Hashemi Katehsari	Letter pronunciation correction system with the help of bending sensor
101	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Ilia Sheykhmohammadi	Portable solar air conditioner
102	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Nika Ahdifard	Special device for preventing spinal complications
103	Thailand	Chulalongkorn University Demonstration Elementary School	Waranyu Kittithawornkul	IoT Smart Health
104	Thailand	Chulalongkorn University Demonstration Elementary School	Chayapa Srivoravilai Prin Udomkiatikul Puntharee Lertricharaskit Piyasoranee winayanuwattikun Picha Banditchutikul	MIY Coloring
105	China	Successmore Being Public Company Limited	Successmore Being Public Company Limited	S.O.D More Dietary Supplement Product (Nutrinal Brand)
106	Canada	N/A	Esmail Mohammadi Tarnaz Chamani Amir Mohammadi Alireza Rajabnejad Sarah Heidt	Design, Control and Prototyping, Active Assistive Exoskeletal Robot for Rehabilitation of Upper Limb
107	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Anhelina Nedoshytko Andrii Nedoshytko	Sports timing system “SKIt”
108	Malaysia	Universiti Pendidikan Sultan Idris	Dayang Rafidah Syariff M.Fuad Oh Zi Jian Shukor Beram Associate Professor Khalip Musa Associate Professor Zahari Hashim	Dayang, Khalip and Zahari PIL Model 2021

109	Malaysia	SUDAROLI TEACHERS	KUMARAN GENGATHARAN THANESH BALAKRISHNAN BATMANATAN PARASURAMAN GOPALA RAO SIMANCHALAM PUSPARATHA PERUMAL GOMATHY SANKARAN SARASWATHY JAYASANKARAN K SARALA KRISHNAN GANDHI MATHY KANAN INDRADEVI KRISHNASAMY	Health Education Assessment Module (MoPen-PK)
110	Thailand	Chulalongkorn University Demonstration Elementary School	Sirisaran Direkwatana Panyakan Tritangkur Harith Punnapirom Baramate Charoenchaisombat	Shuttlecock Pro; Precision-Skills Enhancement Device for Badminton
111	Hong Kong	CMA Choi Cheung Kok Secondary School	TSANG Shing Sing	Universal Mirror
112	Malaysia	Universiti Malaysia Kelantan	Anuar bin Mohd Yusof Tan Tse Guan Nooraziah Ahmad Mohammad Dzulsyafiq Bin Mohammad Yusoff Mohammad Syukran Bin Kamal Ruzzaman	INNOVATION EDUCATION 4.0 ADAPTING MASSIVE OPEN ONLINE COURSE: "MOOC IN MOOC" TECHNIQUE
113	China	Shanghai Mengsheng Biological Technology Co., Ltd.	Shanghai Mengsheng Biological Technology Co., Ltd.	Collagen Enzyme Drink (Tropical Fruit Flavor)
114	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Mohammad Najjarian Ali Paeizi	Intelligent structure with the ability of purify air and water using clean energies which works with IOT system
115	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Amineh Akvan Mohammad Mahdi Akvan Mahboubeh Moghbeli Hanzaei	Sport device equipped with advanced sensors with the aim of performing correct sit-ups and other sports movements which equipped with IOT technology
116	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Amir Hossein Khayyeri	Gait rehabilitation and gate parameters recording system
117	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Illia Pastushok	USE OF COMPUTER VISION FOR THE PURPOSE OF CONTROLLING ACCESS TO THE PERSONAL COMPUTER
118	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Stavytska Anastasiia	Application of autonomous probes to solve the space debris problem
119	Macao	Pui Ching Middle School	Cheong Cheng Un	Barrier Free Bus Station
120	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Helya Afshar Fathy	Traffic control system based on IOT and MQTT network

121	Macao	Pui Ching Middle School Macau	WONG CHI HANG CHAN KENG LAM KUONG CHI HIM	Smart Soap Dispenser Based on Haar Cascade Object Detection and Estimation of Hand Area
122	Macao	Lou Hau High School, Macao, China	Sou Chak Tong Chen Jia Hao Weng Jia Ning Liang Yi Xing	Using smart buoys to build the global four-in-one Internet of Things
123	Iran	BOSTON Medical and Scientific Device, Inc.	Amir Hossein Cheraghi	Portable holter Device
124	Malaysia	Universiti Teknologi PETRONAS	Shahidan Idris Associate Professor Dr Nasreen Badruddin Professor Dato Dr Abu Bakar Abdul Majeed Professor Tan Maw Pin	Classification of Cognitive Frailty in Elderly People from Blood Samples using Machine Learning
125	Philippines	Oriental Mindoro National High School	Faye Louise C. Oller Lara Nicole B. Carpio Sofia Karel M. Daitol Eulyn Cathrin C. Bayani Mark Joseph B. Pangilinan Julia Lenina Z. Villas	Screening of Force Pupation Property of <i>Gynura procumbens</i> for Critical Periods of <i>Papilio demoleus</i> : Input as Biocontrol Alternative for Critically Endangered Insects
126	Ukraine	"Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Oleksandr Yudakov	Simulation of autonomous vehicle driving systems
127	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Dr. Fatemeh Pourrezagholie Davoud Beheshtizadeh	Making an artificial bladder tool for patients suffering from malignant bladder cancer
128	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Ashour Ghelichi	Under water lifeguard capsule with compressed airbag system
129	Malaysia	Universiti Sains Malaysia, Malaysia	Assoc. Prof. Dr. Rafidah Zainon Ms. Noorfatin Aida Baharul Amin Professor Ir. Dr. Mohd Fadzil Ain	A Portable AutoRad Dispenser
130	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Mojtaba Hedayati Chakosari Erfan Ghanbarzadeh	Probiotic Nano-battery

**- END OF CANADIAN SPECIAL AWARDS SELECTIONS -**

**- TOP AWARDS SELECTIONS ON NEXT PAGE -**

# JURY'S CHOICE AWARDS

## Selected by Jury Committee of iCAN 2021

No.	Country	Organization	Inventor(s)	Title of Invention
1	Mexico	UAEM, UNAM, TECHNOLOGICAL INSTITUTE OF TOLUCA	Thania Monserrat Montoya Olmedo Jesus Manuel Montoya Tinajero Emmanuel Alejandro Montoya Olmedo Martin Eduardo Mujica Marisol Rossano Camacho	AXOLCARE (Automated system for preservation and conservation of species)
2	Indonesia	Medicine student, Tehran Medical Islamic Azad University, Tehran, Iran / Senior high school student, Tzu Chi Secondary School PIK, DKI Jakarta, Indonesia	Hesam Adin Atashi Felicia Agatha	AI-powered portable device for screening, diagnosis, and treatment of COVID-19 disease
3	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Amir Hossein Khayeri	Gait rehabilitation and gate parameters recording system
4	Thailand	Suan Sunandha Rajabhat University	Dr. Yuttana Sudjaroen Dr. Kanittada Thongkao Mr. Narin Kakatum	Klear-Throat: Traditional Thai herbal lozenges
5	Thailand	Rajamangala University of Technology Lanna	Wanphen Jitjaroen Lachinee Panjai Rungtiwa Kongngoen	COFFIVINO : A New Era of Coffee Fermentation
6	Canada	N/A	Esmaeil Mohammadi Tarnaz Chamani Amir Mohammadi Alireza Rajabnejad Sarah Heidt	Design, Control and Prototyping, Active Assistive Exoskeletal Robot for Rehabilitation of Upper Limb
7	Malaysia	KOLEJ VOKASIONAL TAIPING	MUHAMAD FAKHRUL SYAKIRIN BIN MAGRUL SUHAINI	SMS QUEUE SYSTEM USING MICROCONTROLLER, GSM AND BLUETOOTH DEVICE
8	Malaysia	Universiti Teknologi PETRONAS	Shahidan Idris Associate Professor Dr Nasreen Badruddin Professor Dato Dr Abu Bakar Abdul Majeed Professor Tan Maw Pin	Classification of Cognitive Frailty in Elderly People from Blood Samples using Machine Learning
9	Philippines	Good Shepherd Academy of Victoria Inc.	Villanueva, Rachele De Mesa	SOLAR-POWERED SAND SEPARATOR
10	Thailand	Rajamangala University of Technology Srivijaya	Asst. Prof. Dr. Angkana Saikeur Ms. Pattamapon Meesit Ms. Aphitsada Robkob	ASTAXANTHIN OVERNIGHT MASK CREAM (Natural remedies for glowing and youthful skin under the mask pollution accumulated during a long day)



# ORGANIZER'S CHOICE AWARDS

## Selected by the Organizing Committee of iCAN 2021



No.	Country	Organization	Inventor(s)	Title of Invention
1	Canada	SC Innovation	Stephen Po Ming Cheng	Critical Thinking Type Inventions and Innovations
2	Malaysia	Higher Education Leadership Academy (AKEPT)	Ismie Roha Mohamed Jais Erlane K Ghani Azian Mohamad Azman Ahmad Shakirin Zainal Abidin Yazrina Yahya Hanis Maisarah Abu Bakar	Talent Management in Higher Education: A Profiling System Management
3	Ireland	University College Dublin	Rachel Howe Sandra Nicholson Carmel Davies Attracta Lafferty Thilo Kroll	CAAI: Co-design of an Animal Assisted Intervention by young people for a Children's Hospital in Ireland
4	Hong Kong	St Paul's Primary Catholic School	BUT CARRIE FONG ALYSSA ZI YING CHIU ELISE WONG SIAN CHOI HAYLEY HIU YI	Air Fan - Deployable shield for aircraft cabin
5	Romania	National Institute for Research and Development for Land Improvements, Bucharest, Romania (INCDIF ISPIF)	Niculae Nicușor	Water running engine
6	Canada	N/A	Summy chi sum PUN	Eco-Friendly Smart Clean Toilet Board
7	Malaysia	KOLEJ VOKASIONAL PERDAGANGAN	NURHUDA MD TAHIR ROHIZA HUSSAIN MUHAMMAD AMEEN ATAN NORMALIZA AHMAD SITI NUR MASTURA SULAIMAN	"TOP ASSISTANT : A BLENDED LEARNING TOOL"
8	Hong Kong	The Education University of Hong Kong	Dr Song Yanjie Dr Lai Yiu-chi Dr Alpha Ling Man-ho Mr Wu Kaiyi Dr Walter Ng Wing-shui Prof Hiroaki Ogata	VocabGO – An Augmented Reality English Vocabulary Learning App
9	Macedonia	National Association of Inventors of Macedonia (NAIM)	Dr Dragan Jovanov	Agrophyto tonic with atomic absorption of macro and micro elemental action and properties of parts of herbal plants white clover root and flower, walnut leaf....
10	Hong Kong	Tung Wah College	LAU Ching Hei	Syringe Collector



International Invention Innovation Competition in Canada  
iCAN -TORONTO, CANADA

# BEST INVENTION DESIGN AWARDS

## Selection of the Best 10 Invention Designs in iCAN 2021



International Invention Innovation Competition in Canada  
iCAN -TORONTO, CANADA

No.	Country	Organization	Inventor(s)	Title of Invention
1	Macao	MACAU Pui Va Middle school	HOI CHON LAI HO KA SENG LIN CHAN HOU HOI HOU LAI WONG MARCO ANOK CHAN HOU (Tutor)	IOT based water feature control system with environmental protection idea
2	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Oleksandr Borylo	EFFICIENT METHOD OF INDUSTRIAL EMISSIONS DISSIPATION
3	Canada	Extrength Technologies Inc.	Omid Reza Momenzadeh Azadeh Moosavi Shirazi Mahtab Malekpour Khazari Arash Mobasherfar	Extrength
4	Thailand	Chulalongkorn University Demonstration Elementary School	Sirisaran Direkwatana Panyakan Tritangkur Harith Punnapirom Baramate Charoenchaisombat	Shuttlecock Pro; Precision-Skills Enhancement Device for Badminton
5	Korea	Clean Living Science	OH MOONSEOB OH DAYEON LEE YAESOOON	Blade Cleaner - Sseuksak (3-piece set) <i>The Multi-Purpose Silicone Broom</i>
6	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Amineh Akvan Mohammad Mahdi Akvan Mahboubeh Moghbeli Hanzaei	Sport device equipped with advanced sensors with the aim of performing correct sit-ups and other sports movements which equipped with IOT technology
7	Hong Kong	Caritas Institute of Higher Education	LAU Chun Hei	Safety Window
8	Malaysia	iMagic Technologies (M) Sdn. Bhd.	Stefan Chew Kien Ming Brandon Chew Joon Yip Rita Khan Carmen Lam Kar Mun Shim Dezhen	PlaxiBATH – Mobile walk-in bath device with water recycling facilities
9	Iran	The First Institute Inventors & Researchers in I.R.IRAN	Kian Pouraslani	Dentistry light
10	Hong Kong	The Education University of Hong Kong	Dr Hung Keung	Audio-Tactile Chinese Characters: Bringing Multisensory & Novel Learning Experience to the Visually Impaired

# BEST INVENTION VIDEO AWARDS

## Selection of the Best 10 Invention Video Presented in iCAN 2021

No.	Country	Organization	Inventor(s)	Title of Invention
1	Peru	UNTRM	LOYDA LUZ GUEVARA CASTAÑEDA CARLOS ALBERTO FARJE GALLARDO	DISPOSITIVO INTRAORAL PARA CONTROLAR EL MAL ALIENTO THE INTRAORAL DEVICE AGAINST BAD BREATH
2	Malaysia	INSTITUTE OF TEACHER EDUCATION, SARAWAK CAMPUS, SARAWAK, MALAYSIA & SJKC MANONG, KUALA KANGSAR PERAK, MALAYSIA.	HU LAEY NEE NORSARIHAN AHMAD TAN YOONG MING MUHAMMAD HARITH MOHD ALI HANAFIAH	CRACK THE NUMBERS (CTN)
3	Malaysia	Universiti Malaysia Kelantan	Anuar bin Mohd Yusof Tan Tse Guan Nooraziah Ahmad Mohammad Dzulsyafiq Bin Mohammad Yusoff Mohammad Syukran Bin Kamal Ruzzaman	INNOVATION EDUCATION 4.0 ADAPTING MASSIVE OPEN ONLINE COURSE: "MOOC IN MOOC" TECHNIQUE
4	Philippines	Oriental Mindoro National High School	Faye Louise C. Oller Lara Nicole B. Carpio Sofia Karel M. Daitol Eulyn Cathrin C. Bayani Mark Joseph B. Pangilinan Julia Lenina Z. Villas	Screening of Force Pupation Property of <i>Gynura procumbens</i> for Critical Periods of <i>Papilio demoleus</i> : Input as Biocontrol Alternative for Critically Endangered Insects
5	Malaysia	IIUM JUNGLE SCHOOL INITIATIVES FLAGSHIP, AAD KAED AND JUNGLE SCHOOL GOMBAK MALAYSIA	ASST PROF DR NORZALIFA ZAINAL ABIDIN KALAM BIN PIE AINA SUHAILA BT MOHD NIZA	JUNGLE SCHOOL SUSTAINABLE COMMUNITY BASED TOURISM AND OUTREACH INNOVATION ENHANCEMENTS
6	Canada	E-CRACK TECHNOLOGIES INC.	Milad Feyzi Merat Feyzi Mohammad Reza Feazi Mani Feyzi	Ecrack
7	Thailand	Chulalongkorn University Demonstration Elementary School	Thitchaya Monkong Napassanun Sumetpimolchai	iMedicare Solution
8	Hong Kong	Christian and Missionary Alliance Sun Kei Secondary School	Lau Yuk Hang, Uan Hon Ki Ching Po Hiu Tung	Beidou Navigation Rescuing System
9	Malaysia	Universiti Malaysia Pahang	Wan Norfazilah Wan Ismail Hartina Mohd Yusop Nur Nabilah Mohd Za'im	GetDry! – Get dry with nano waterproof spray!
10	Hong Kong	City University of Hong Kong	LIU Sai DU Yuwei LEE Hau Him ZHU Yihao TSO Chi Yan	An intelligent and thermally-responsive window (ITRW) for indoor thermal management and energy-saving in buildings



# BEST WOMAN INVENTOR AWARDS

## Selection of the Best 10 Woman Inventors in iCAN 2021



No.	Country	Organization	Inventor(s)	Title of Invention
1	Saudi Arabia	Jeddah University	Dr. Mona Mohammad Zaid AL-Sharif	Chromosomes Spreading Tool
2	India	MIDDLESEX UNIVERSITY, DUBAI	Mrs. CHINNU MARY GEORGE	Leaf Therapy excellence Prognostication using Machine Learning
3	Malaysia	SJK (TAMIL) JENJAROM, KUALA LANGAT, SELANGOR, MALAYSIA	SARASWATHY D/O SUPPIRAMANIAM	NSS SIDDHA AYURVEDIC MIX Grow Green Global (3G)
4	Malaysia	Universiti Malaysia Pahang	Wan Norfazilah Wan Ismail Hartina Mohd Yusop Nur Nabilah Mohd Za'im	GetDry! – Get dry with nano waterproof spray!
5	Serbia	University of Belgrade	Aleksandra Ivetić	Silage stabilizers
6	Thailand	Faculty of Pharmacy, Chiang Mai University	Asist. Prof. Dr. Ruttiros Khonkarn	Soluble turmeric extract in Thai coffee product
7	Malaysia	International Islamic University Malaysia (IIUM) and University of Malaya (UM)	Asst. Prof. Dr. Nur Ayuni Jamal Assoc. Prof. Dr. Farazila Yusof	Designing A Newly Energy Absorber Potential Based on Closed-Cell Porous Aluminum for Automotive Application
8	Macedonia	Yahya Kemal College - Skopje	Ema Gajdova Elena Popovska	The Potential In Biodegradable Film Obtained From Whey Protein
9	Hong Kong	The Education University of Hong Kong	Dr Pansy Tam Po-chi	Dramaflow – Ideas Generation Dices for Planning Process Drama Lessons
10	Malaysia	NATIONAL UNIVERSITY OF MALAYSIA	PROFESSOR DR SALINA HUSAIN	Rig-S: All-in-One Portable Device for Endoscopes





# BEST YOUNG INVENTOR AWARDS

## Selection of the Best 10 Young Inventors in iCAN 2021



No.	Country	Organization	Inventor(s)	Title of Invention
1	USA	Evergreen Valley High School	Maddox Yu	Collaborative Machine-Learning Concussion Sensing System for Better Concussion Prediction
2	Poland	The Complex of School No 6 in Jastrzebie-Zdroj, Poland	PAULINA FRĄTCZAK ADRIAN GRZONKA TUTORS: LIDIA GAJDZIK BARBARA HALSKA JERZY MADUZIA	The influence of different breeding conditions of Galleria Mellonella larvae on the possibility of recycling polyethylene from the natural environment
3	Ukraine	“Junior Academy of Sciences of Ukraine” under the auspices of UNESCO	Golosny Danylo Sergeevich	DESIGN AND MANUFACTURE OF ROBOTIC COMPLEX FOR PET CARE
4	Malaysia	Methodist Girls Primary School Kuantan @ SK (P) Methodist Kuantan	Maryam Muzamir	YAM 2.0: Sustainable Livestock Feed
5	Hong Kong	King's College	Cai Gen Chung Shing Hei Fung Tin Yau Kwong Ming Hin Woo Chi Lok Garyson	Cherishing Older People System
6	Malaysia	Sekolah Menengah Sains Selangor	Nur Azrinadhirah Binti Shahril Nizam Nurain Binti Hamdan Nur Athirah Syabilah Binti Azeman Qaseh Adilla Binti Saifullah	Greenhouse Smart Grow (GSG)
7	Poland	Zespół Szkół Technicznych w Rybniku	Daniel Czech Mateusz Niedobecki	ISP - Intelligent Air Filtration and Ventilation System & SMOGBASE
8	Malaysia	Sekolah Kebangsaan Sungai Pusu Gombak / Sekolah Menengah Al-Amin / Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Kuala Lumpur	Safya Afiff Sarajul Fikri Munif Afifi Sarajul Fikri Muadz Afifi Sarajul Fikri Assoc. Prof. Dr. Siti Hamidah Mohd Setapar Miss Zarith Asyikin Abdul Aziz	SUN SCREEN LOTION ENRICHED ROSELLE: SAFER COSMETIC FOR KIDS
9	Philippines	HOLY INFANT ACADEMY OF CALAPAN	ANTONIO GABRIEL A. GOCO	H.I.N.T.O (Human Intoxication Notification Tool for Vehicles)
10	Hong Kong	Christian and Missionary Alliance Sun Kei Secondary School	Lee Cheuk Lok Tsang Sung Tak Wong Tze Ching Lu Hiu Tung	Marine Guard: A Monitoring System by Using AI Image Detection & Submarine to Recognize

# TOP 20 BEST INVENTION AWARDS

## Overall Selection of the Top 20 Best Inventions in iCAN 2021

No.	Country	Organization	Inventor(s)	Title of Invention
1	Finland	Office Beat Oy	Juha Starck Rose-Marie Backström	Seat Guard -Microbreaks
2	Malaysia	Multimedia University	Dr. Leow Meng Chew Dr. Ong Lee Yeng Prof. Lau Siong Hoe Prof. Koo Voon Chet Mr. Leow Kang Ren Mr. Lai Guo Yao Mr. Loo Eng Keong	Connected and Interactive Advertising Campaign (Connect-Interact)
3	Egypt	N/A	Dr. Zaky Abd ElLatif Zaky Abdellatif	Simply manual winch for handicap, paralyzed & special needs for all uses
4	Malaysia	iMagic Technologies (M) Sdn. Bhd.	Stefan Chew Kien Ming Brandon Chew Joon Yip Rita Khan Carmen Lam Kar Mun Shim Dezhen	PlaxiBATH – Mobile walk-in bath device with water recycling facilities
5	USA	Science & Technology Group LLC	Grigori Lishanski Oleg Lishanski	Lishanski's Vibratoty cavitation pump, US Patent US 9,062,664 B2 and US 8,353,213
6	Malaysia	Universiti Putra Malaysia (UPM)	Dr. Siti Efliza Ashari Prof. Dr. Rosfarizan Mohamad Ts. Sr. Dr. Muhammad Ridzuan Yahaya Nur Farzana Izzati Mohd Jaslina	BioEsst OLEATE: Encapsulated Technology Assisted by Nanodelivery System for Skin Hyperpigmentation Therapy
7	Thailand ATIP#2	Suan Sunandha Rajabhat University	Mr.Narin Kakatum	Mordia: Sunscreen gel form <i>Momordica cochinchinensis</i>
8	Malaysia	OMINENT SDN BHD	OMINENT SDN BHD	ECOCOAT TITAN – DURABLE PHOTOCATALYST CERAMIC COATING
9	Malaysia	Universiti Putra Malaysia Bintulu Sarawak Campus (UPMKB), Malaysia	Prof. Dr. Ahmed Osumanu Haruna Dr. Latifah Omar Liza Nuriati Lim Kim Choo Dr. Kevin Muyang Tawie Sulok Dr. Adiza Musah Alhassan	Enhancing Soil and Crop Productivity for Food Security
10	Malaysia	Universiti Tunku Abdul Rahman & BridgeField Resources Sdn. Bhd	Yamuna Munusamy Asmipuddin Sumathi Sethupathi Mathialagan Muniyadi	ProGreenRubber



# TOP 10 BEST INVENTION AWARDS

## Overall Selection of the Top 10 Best Inventions in iCAN 2021



No.	Country	Organization	Inventor(s)	Title of Invention
1	Romania	Romanian Association for Alternative Technologies Sibiu – A.R.T.A. Sibiu	ȚÎȚU Aurel Mihail OPREAN Constantin MĂRGINEAN Ion ȚÎȚU Ștefan MOLDOVAN Alexandru Marcel BOGORIN-PREDESCU Adrian	ELECTRICAL PERSONAL INDIVIDUAL CAR (Patent pending: A2015 00552)
2	Malaysia	OMINENT SDN BHD	OMINENT SDN BHD	GRAPHENE REINFORCED ECOCOAT KENZO
3	USA	Parking Lock Box LLC	Edward Paul Laskowski Jason Glen Squier	Vehicle Lock Box
4	Romania	INOVESS GROUP	Mircea MANOLESCU Paul Georgian TURCU Diana Mihaela CALOTA	iSentinel® EVOBUILDING - THE EVOLUTIVE DISASTER INTELLIGENT PROTECTION SOLUTIONS SAFEBUILDING
5	UAE	United Arab Emirates Genetic Diseases Association (UAEGDA)	Dr. Mohammad Ibraheem Mezaal Atheab H E Dr. Maryam Mohamed Fatma Matar	MOLECULAR INNOVATIVE METHOD FOR DETECTION DELTA VARIANT OF SARS-COV-2 WITHIN 2-3 HOURS
6	China WIIPA#9	Tupperware (China) Co., Ltd.	Tupperware (China) Co., Ltd.	COLLAGEN PEPTIDE BIRD'S NEST FLAVOR DRINK
7	Romania	University POLITEHNICA of Bucharest	Catalin Marian DUMITRESCU Marius MINEA Ilona COSTEA Augustin SEMENESCU Ionut-Cosmin CHIVA Viviana MINEA	SYSTEM AND METHOD FOR DETECTING ACTIVE UNMANNED AIRCRAFT SYSTEMS (UAS) BY DEEP LEARNING ANALYSIS OF MICROPHONE ARRAY AND CAPTURE IMAGES
8	Sweden	N/A	Sajad Shabanpourhaghghi Neda Bagherian	METHODS AND APPARATUS FOR TREATMENT, DESALINATION AND STERILIZATION OF WATER BY BOILING AT AMBIENT TEMPERATURE WITH REDUCED PRESSURE
9	USA	Science & Technology Group LCC	Grigori Lishanski Oleg Lishanski	Lishanski vibrating transport device and associated method for movement of objects on vertical, horizontal and inclined basic surfacets; US Patent 10, 214 398 B2
10	Malaysia	MEDI GLOBAL ENTERPRISE SDN BHD	DATO' DR. SIEW KUANG CHOONG @ SIOU KUANG LING	Circumcision Device "CIRCUMSTAR -1"



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## **THE SEMI-GRAND PRIZE**

Selection of the 2<sup>nd</sup> Highest Honour in iCAN 2021



International Invention Innovation Competition in Canada  
iCAN - TORONTO, CANADA

**Dahua Shou Jintu Fan Wei Xin**  
*The Hong Kong Polytechnic University*

from Hong Kong

**Sweatextile: A Sweatable Textile for High Comfort and Protection  
/ Nature Inspired Fabric for Unidirectional Liquid Transport**



International Invention Innovation Competition in Canada  
iCAN - TORONTO, CANADA

## **THE GRAND PRIZE**

Selection of the 1<sup>st</sup> Highest Honour in iCAN 2021



International Invention Innovation Competition in Canada  
iCAN - TORONTO, CANADA

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