



2024年第十二屆澳門國際創新發明展

The 12th Macao International Innovation and Invention Expo (MiiEX) 2024

澳門最具規模發明展

Macao's Largest Innovative Invention Expo

發明比賽，發明家交易、交流，免費知識產權講座

Invention Contests, Inventors exchange, Free IP seminar

2024.10.25 ~ 2024.10.27

9:30a.m. ~ 6:00p.m.

展會地點：澳門綜藝館

Venue : Macao Forum

主辦單位
Organizer



澳門創新發明協會
Macao Innovation and Invention Association



特別鳴謝：2023年以下的指導單位、協辦單位、電訊伙伴、支持單位、線上協辦單位、媒體支持單位和國際代表團
Special Acknowledgments: to 2023 Guidance Unit Organizers, Co-organizers, Telecom Partner, Supporters, Online Co-organizer, Media Partners and International Delegations.

指導單位
Guidance unit



中國發明協會
China Association of Inventions

協辦單位
Co-organizers



世界發明智慧財產聯盟總會
World Intellectual Property Association



香港發明創新總會
Hong Kong Federation of Invention and Innovation



香港發明協會
Hong Kong Invention Association

電訊伙伴
Telecom Partner



澳門電訊

支持單位
Supporters



國際發明聯盟協會

線上協辦單位
Online Co-organizer



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國家知識產權運營（橫琴）粵港澳合作平台

媒體支持單位
Media Partners



Invention Magazine



澳門衛視西部機構
Macau Satellite TV Western Organization

電郵 / Email: info@miiex.net

網址 / Website: <http://miiamacao.org>



The 12th Macao International Innovation and Invention Expo 2024 Regulations

1. Purpose:

In response to the guidelines given in the China's Fourteenth Five-Year Plan, the Guangdong-Hong Kong-Macao Greater Bay Area and The Belt and Road Initiative, Macao International Innovation and Invention Expo is intended to develop a platform for entrepreneurs and teenagers from all over the world to introduce and share their brilliant inventions as well as exchanging the advancement and application of science and technology in different relative fields. Also, we are excited to celebrate the 20th Anniversary of Establishment of Macao Innovation and Invention Association, the 25th Anniversary of the Founding of the Macao Special Administrative Region with guests from around the world.

2. Significance

For a long time, this event has attracted many participants from all over the world. Many participants reported that they have benefited a lot from the competition. After communicating with players from different regions, they have broadened their horizons and brought new innovative ideas, had a deeper understanding of Macao's more than 400 years of Chinese and Western cultural history. The 11th Macao International Innovation and Invention Expo, we have received over 523 inventions from 27 countries.

3. The organizational units:

- (1) Guidance unit: China Association of Inventions (CAI);
- (2) Organizer: Macao Innovation and Invention Association (MiiA);
- (3) Co-organizers: World Invention Intellectual Property Associations (WIIPA), Hong Kong Federation of Invention and Innovation (HKFII), Hong Kong Invention Association (HKIA);
- (4) Support Units: International Federation of Inventors' Associations (IFIA),
- (5) Online Co-organizer: Huafa 7IPR National Intellectual Property Operation Platform;
- (6) Special Acknowledgments to 2023 partners: Guangdong-Hong Kong-Macao Greater Bay Area Innovation and Invention Association, Shanghai Association of Inventions, GoangDong Association of Inventions, Zhongshan Invention Association, Dongguan Invention Association, Huizhou Invention Association, Foshan Shunde Innovation and Invention Association, Shenzhen Enterprise Science and Technology Innovation Association, Technology Innovation Association of Shenzhen Enterprise, Zhuhai Promotion Association of Science and Technology Innovation, Foshan China Academy of Invention Achievement Transformation, Shunde District in Foshan City Youth Growth Promotion Association, Sichuan, Chongqing, Hong Kong, Macao and Taiwan Youth Science and Technology Innovation Alliance, Chongqing denghongji Chuangfa Education Technology Co., Ltd, World Invention Intellectual Property Associations, Taiwan Edison Creative Invention Academy, HongKong Council for technology & Creation, Macao Victory IP Agent Co. Ltd, ZWCAD Design Co., Ltd, Macao International Ideas and Innovational Inventions Incubation Association, Impressao Digital Educacao E Investimento Consultadoria Limitada); Creathinx; Toronto International Society of Innovation & Advanced Skills; Croatian Inventors Network; Egyptian society for woman & youth inventors; CMA Choi Cheung Kok Secondary School; Indonesian Invention and Innovation Promotion Association; Ania Association; IRTI IRANIAN TOP INVENTORS; National Association of Inventors; Chizai Corporation; Korea University Invention Association; Malaysia Research and Innovation Society; NNSHS-Young Researchers Club; Eurobusiness-Haller; Agri Green Foundation; Romanian Inventors Forum; Highly Innovative Unique Foundation; Citizen Innovation; Sri Lanka Inventors Commission; Smart

care tech; Taiwan Invention Products Promotion Association; Turkish Inventors Association; Inventors City; International Invention and Trade Expo Committee; Institute for Invention and Innovation-SANVIC; Indian Innovators Association; Norton University.

(7) Media Partners: Macao Satellite TV Western Organization/The Patent Magazine (IFIA & MiiA Official Media Partner, <https://www.thepatent.news/>);

(8) Undertaker: Macao Innovation and Technology Park Limited.

4. Exhibition venue: Macao Forum (Avenida de Marciano Baptista)

5. Competition items:

Innovative Invention Project (Participants can choose to participate in online or on-site exhibitions) Enterprises, students (individuals or groups of 7 people), individuals or groups (within 7 people) participate in the competition in the form of innovation and invention projects.

6. Important Events Schedule :

Time & Date	Program	Location
July 1, 2024	Online Registration – Open	http://www.miiamacao.org
6pm (GMT+8)	Online Registration	
August 31, 2024	Close at 6pm (GMT+8)	
September 21-22, 2024	Online Judging	By Zoom or Google Meet
October 5-6, 2024	Online Judging	By Zoom or Google Meet
2pm-6pm	Move - in date for Booth Setup	Macao Forum
October 24, 2024	Expo Day 1	
9:30am-6pm	On-site Judging	
October 25, 2024	Welcome Dinner	
9:30am-6pm	Expo Day 2	
October 26, 2024	On-site Judging	
9:30am-6pm	Expo Day 3	
October 27, 2024	Road Show	
	Award Ceremony	

7. Registration and online registration procedures:

(1) Please contact MIIA, Expo Advisors, co-organizers or support units for further instructions and procedures before 1/6/2024. The relevant units will provide accounts and passwords required for online registration procedures;

(2) The online registration system will be open from 1/7/2024 to 31/8/2024 at 6pm (GMT+8);

(3) It is important for participants to complete the online project registration before 31/8/2024 (<http://www.miiex.net/>) ;

(4) If the registration is successful, the sentence "completed, thank you!" will be shown up after the final submission. But in order to ensure that the registration has been completed successfully, please log in again with your account and password. If the data exists, it means the registration is successful.

8. Eligibility:

(1) Individuals, enterprises and students are welcomed to sign up for the competition in the two participation categories, the Enterprise/Individual category and the Students Categories.

(2) Innovative, advanced, scientific and practical inventions completed within the past year (after 9/ 2023);

(3) Exhibits that have participated in any previous MiiEX exhibitions are not qualified for

registration (except those with obvious and distinct improvement);

(4) Scientific research papers cannot be registered for this Expo.

9. Video submission requirements:

- (1) Considering the protection of the intellectual property rights of the inventors, and in order to prevent the video of the invention from being published on the public website, the video file will be uploaded to the server of the registration system. The video is required to be in MP4 format at 1080P/30fps, 16:9 horizontal resolution, within 3 minutes and the file size is less than 30MB;
- (2) Video duration: Within 2~3 minutes (including the opening and ending of the video), the video should include but not limited to the following contents: introduction of the creation process of the project, the characteristics of the innovative invention, creativity, marketability/profitability, and operability.

10. Requirements for research report submission of projects:

- (1) The report should explain thoroughly in the three main aspects as mentioned in the rubrics: creativity, marketability / profitability and operability. The report should be written no more than 500 words. It is recommended to include diagrams of the front, left and right views or the structure diagram of your project, it will be better if related research or experiment data is provided ;
- (2) The first page should be reserved for the introduction, and the other pages should include the contents as mentioned. In order to let the judges know more about the project, the patent certificate (if any) can be posted in the report; any previous award certificate can also be included (if any, only the highest award certificate; other awards history can be listed in words);
- (3) The report should be no more than 4 pages of A4 paper, with one poster introducing the invention. Please compress the picture if necessary and submit it in PDF format, the document should be less than 6MB;
- (4) The name of the file should not be too long, preferably in 10 characters, and should not contain () and "".

11. Exhibitors' notices:

- (1) The awards of all winners will be sent by international airmail. Please provide accurate and detailed address (Chinese or English) and postcode ;
- (2) Each entry is only accepted to be completed by a maximum of three participating units or seven inventors. The relevant information must only appear on the same certificate and cannot be separated.

12. On-site Participants: Exhibition booth, exhibition stand:

- (1) size of exhibition booth and exhibition stand:

a). Exhibition booth area:
 $3\text{m}(\text{length}) \times 3\text{m}(\text{width}) \times 2.5\text{m}(\text{height})$



b). Exhibition stand area:
 $1\text{m}(\text{length}) \times 0.45\text{m}(\text{width}) \times 2.5\text{m}(\text{height})$, height of stand o.75m(stand)



13. On-site Participants: Exhibition booth, Exhibition stand and Price

	Type of exhibition booth & exhibition stand	Price per unit
1.	Standard Booth Size: 3 m × 3 m Remarks: maximum for 4 exhibits	USD3,470/EUR 3,230 per booth
2.	Exhibition Stand Size: 1m(length)×0.5m(width)×2.5m(height) Remarks: for 1 exhibit and student only	USD500/ EUR465 per exhibit

(3) On-site Participants: Exhibition booth and Exhibition Stand

	Standard Booth Inclusive	Exhibition Stand Inclusive
1.	Size: 3m (width) × 3m (depth) 3-sided exhibition board Decoration on own arrangement	1 x Exhibition Stand 1 x Chair
2.	One Fascia Board (maximum 50 words in English) 3 x spot-light of 23W 1 x chair and 3 x table 1 x 13-A sockets **Decoration on own arrangement	Please print out the exhibition decoration and stick at the scene.
3.	Extra charges if additional power or socket needed	USD75/EUR70 each

14. Charge and arrangement:

(1) Each standard exhibition booth can put up 4 exhibits, exhibitors who have fewer than 4 exhibits will be arranged to share with others and the cost of each exhibit is USD960/EUR900. The exhibition stand is only available to students and can put up one exhibit only, the charge is based on the above table1;

(2) Charges of each exhibit include cost of exhibition booth/exhibition stand (basic electricity, tables and chair), evaluation fee for a project, an award certificate and medal (only for those having awarded) The conference will issue relevant registration forms to all participants. If you need to purchase additional award certificates or medals, please fill in accordingly;

(3) If you are participating in the offline exhibition, it may be turned into an online exhibition due to the impact of the epidemic. If so, it will be arranged to conduct an online review with the judges. Whether to participate in the online review is free for the participants to choose.

15. Poster format of showing boards of exhibition booth and exhibition stand:

(1) Poster Size : 90mm(w) x 120mm (h) ; Electronic AI posters will be provided to online and on-site exhibitors ;

(2) Display board posting requirements: In order to avoid damage to the board, the conference will provide double-sided adhesive tape, please collect it from the on-site staff.

16. Evaluation Rubrics:

(1) All participating projects will be reviewed and evaluated according to the rubrics given (Table 3);

(2) Participants' introduction videos take up 50%; post and project introduction materials submitted in the online registration take up another 50%;

(3) An International Jury Panel will be invited from CAI, WIIPA, HKFII and HKIA and friendly organizations around the world to review the projects.

Table 3

Evaluation Rubric	
Creativity	Innovative Function (10%)
	Innovative (10%)
	Application of Scientific Nature (10%)
	Patentability (10%)
Marketability & Profitability	Environmentally Friendliness (10%)
	Market Demand (5%)
	Social Contribution (5%)
	Appearance (shapes, colours, and sizes) [5%]
	Exquisiteness (5%)
Operability	Operation (10%)
	Structural Rationality (10%)
	Overall Collocation (10%)

17. Invention categories:

Table 4

Invention Categories	1. Aerospace & Aviation	11. Household Items/ Infant & Child-care
	2. Agriculture	12. Industrial Design/ Manufacturing Process
	3. Apparel, Fabric and Garment	13. Information Technology
	4. Automotive & Transportation	14. Machines and Equipment
	5. Biotechnology, Health & Fitness	15. Materials
	6. Building and Construction	16. Medical/nursing/special care
	7. Chinese/Western Medicine	17. Office Products
	8. Chemicals	18. Printing & Packaging
	9. Educational Items	19. Sports & Games
	10. Environmental/ Energy	20. Military Industry

18. Reward methods:

(1) Qualified innovative invention exhibits will receive relevant medals (Gold, Silver and Bronze) and award certificates;

(2) Best Organizer Award will be presented to outstanding organizations with more than 10 exhibits;

(3) Outstanding Tutor Award: There is an Outstanding Tutor Award for innovative invention projects and creative projects. If the participating project wins the gold award, the tutor will receive a certificate of Outstanding Tutor Award (see page 19 for details), which is the same if the project is tutored by multiple teachers, the corresponding number of joint certificates can be issued according to the actual situation, and the individual name will not be issued separately. Please be noted the silver or bronze award will not be considered as the candidate of Outstanding Tutor Award;

(4) Seven participants (Must have a patent registration) from each of the two participants categories (enterprise/individual and students) with excellent innovation projects will be granted the Grand Award of the General Assembly in their respective innovation categories. Awards in their respective categories include International Environmental Protection Award, International Innovation Award; International Invention Award, Best Market Potential Award, Guangdong-Hong Kong-Macao Greater Bay Area Awards, The Belt and Road Initiative Award and 20th Anniversary Grand Prize of MiiA;

(5) All awards will be presented in the Award Presentation Ceremony, if the winner cannot attend the ceremony in person and not able to send a representative, the award will be sent by express mail to the participants address as registered. Noticed that related expenses will have to be paid by the winner. The postal charges are shown at Table 5. (Countries or regions not in the table will be quoted separately).

19. Fees and rules for online participant:

(1) The registration fee for each project is shown in Table 6; the postage fee for each project is shown in Table 5;

(2) The fee for each project includes the assessment fee for the project, one award-winning certificate and one side of the medal, but does not include the postage.

Table5

Countries	JPN	KOR	THA	MYS	PHL	VNM	IND	IDN	KHM	Europe	USA	CAN
Postal charges in USD	35	30	30	30	30	30	30	30	30	70	70	70

Table 6

Participation fees		USD	EUR
Number of projects			
1 piece or more		290	260

20. Fees and Conditions for Additional Purchase of Winning Medals or Certificates

(1) Participants in innovation projects and creative projects who win prizes will be awarded a medal and a Certificate of Merit respectively (one certificate will be issued for those who do not win prizes) ;

(2) Additional USD \$40 per/EUR38 per certificate is required if additional certificates are purchased.

(3) Additional USD \$40 per /EUR38 per medal will be charged for each additional medal;

(4) Additional USD \$40 /EUR38 per certificate is required;

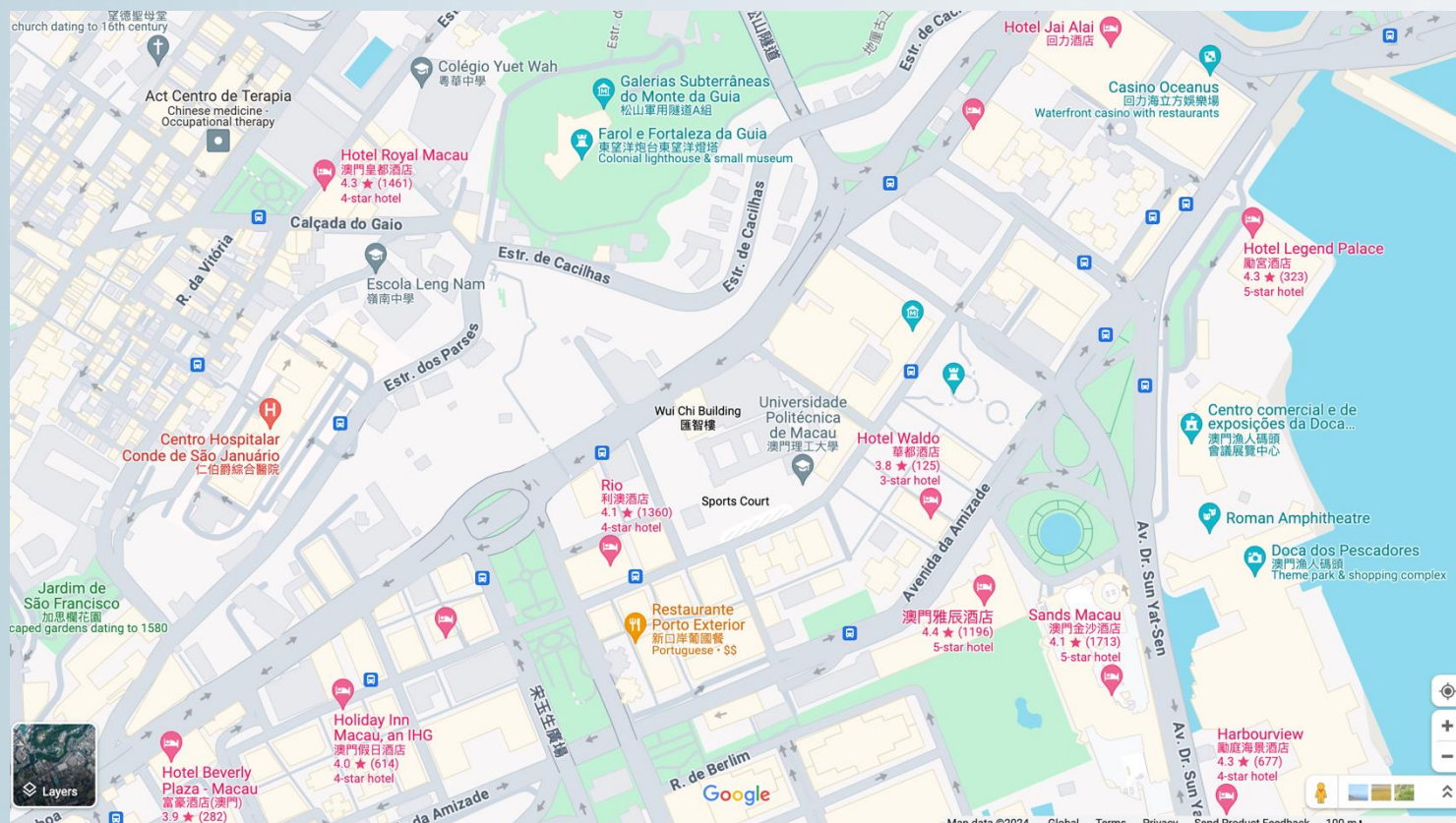
(5) Once the information provided in the application is confirmed, an administrative fee of USD \$40 per/EUR38 will be charged for each certificate if any information needs to be amended in the certificate.

21. The conference recommends hotel booking and study group companies:

There are many hotels to choose from near the exhibition venue. If you need help booking a hotel or arranging travel, please contact Macau Liji Tourism Development Co., Ltd.:

(1) Miss Yang (+853 63779088), Miss Han (+853 63772988), contact person: Miss Han 15363772988,

(2) WhatsApp: (+853 63772988) , Email: info@lapkei-travel.com.mo.



22. Payment:

(1) Please remit the relevant fees to the following accounts:

- Bank: Bank of China Macao Branch
- Account Name: Macao Innovation and Invention Association;
- Account Number: 00180101207974131 SWIFT CODE: BKCHMOMX;
- Address: Rua Silva De Mendes No.1 Edf. On Fai 8 Andar Macao;

(2) Any transaction fees involved in the transfer must be covered by the transferee.

(3) After payment, please upload to the transaction slip on the registration system.

(4) The registration will be completed after transaction slip is uploaded successfully.

(5) Please complete your payment before 30/9/2024, any entries without payment will be disqualified.

23. Contact for queries and information:

If you have any queries, please email to miiamacao.info@gmail.com

23. Supplementary provision:

(1) All the participating exhibits must be original and do not involve in any form of plagiarism. Such legal consequence should be responsible by the offenders. Patented participating exhibits

should provide copy of patent or relative patent number for reference. If the exhibitors are not patent holder, please provide relative power of attorney from patent holder;

(2) Any decisions from the organizer are the final one. Objections and appeals will not be considered. the organizer has the right to alter any regulations without prior notification. Any changes will comply with the final announcement of the event organizer (MiiA);

(3) The event organizer (MiiA) has the right to explain and alter the rules and regulations of this expo, use any pictures and videos of all the participating exhibits, participants may not object such policy.

(4) To speed up the award presentation process, staff will be notified in advance to prepare for the awards presentation ceremony. All awardees will be invited to take photos with the guests on the stage with their certificates and medals.

(5) As the projects on display will be Macao Convention Centre, therefore, the specific arrangement of each project will be arranged by the exhibition location, participants are not allowed to raise any objections.

24. Annex:

Cloud link to the 12th Macao International Innovation and Invention Expo 2024 online guideline and

research report templates and poster design templates:

(https://drive.google.com/drive/folders/1EIOfzbhR0bSkhGvgHbiE0QJeCD0eUNr?usp=share_link)



Macao Innovation and Invention Association

April 29, 2024

Important: For those who are interested to join MIIEEX “Onsite” section in Macau, please contact our advisor for enquiry.

Review of the 11th Macao International Innovation and Invention Expo 2023

Opening Ceremony



Judging Section





The Guangdong-Hong Kong-Macao Greater Bay Area Smart Healthcare and Safety Technology Innovation & Application Professional Forum is organized by the Hong Kong Creative Industry Host by Danny Cheung from Hong Kong Council for Technology & Creation



Zhang Xiaolin, Executive Chairman of Shenzhen Enterprise Innovation and Development Promotion Association, host a lecture on "Practical Innovation"



Students Road-show





Award Ceremony Group Photos



Special Awards Presentation



Group Photos of Participants in Participating International Contests



Award Presentation

2023

2023年10月30日

星期一

澳 聞

市民日報 第 2 版



出席「2023年第十一屆澳門國際創新發明展」頒獎典禮嘉賓及與會者合照。

澳門國際創新發明展舉行頒獎

【本報訊】由中國發明協會指導，澳門創新發明協會主辦，世界發明智慧財產聯盟總會、香港發明協會、香港發明創新總會協辦的「2023年第十一屆澳門國際創新發明展」頒獎典禮昨日下午假澳門會展中心舉行。本屆發明展吸引超過63個地區省市及27個國家共計523件作品參賽，創歷屆之最。活動藉此搭建澳門與國際創新發明的交流平台和國際青少年、企業創新發明作品互相交流與分享，藉此推動科普知識，為促進澳門科學技術的進步與發展，開拓更具廣闊的前景。

作品共523件 創歷屆之最

澳門創新發明協會、粵港澳大灣區創新發明協會會長黎栢強致辭時表示，本屆發明展吸引來自海峽兩岸4地超過63個省市及地區和俄羅斯、克羅地亞、羅馬尼亞、印尼、伊朗、泰國等「一帶一路」27個國家的發明組織、學校與個人發明家參賽，作品合計523件，較去年增加36件，創歷屆之最。其中，201件作品於線下參賽，322件作品則線上比拚。主、協辦方冀透過活動讓澳門創新發明科技界與世界各地業界進行深度交流，共同提高和促進創新發明事業發展。

為了提高比賽質量，確保賽果更具公平性與公信力，本屆發明展邀請海峽兩岸4地和其他地區共139位專家學者，組成龐大專業的評審團隊。經評定，本屆發明展「創新發明」項目評出金獎222個，銀獎157個，銅獎84個；「創意作品」項目評出金、銀、銅獎各6個；「科技繪畫」項目評出金獎18個，銀獎21個，銅獎3個。同時，「創新發明」項目針對學生組、個人及企業組兩個組別分設「最佳一帶一路大獎」、「最佳粵港澳大灣區大獎」、「最佳國際環保大獎」、「最佳國際創新大獎」、「最佳國際發明大獎」及「最具市場潛力大獎」等12個重磅榮譽獎項。其中，「最佳粵港澳大灣區大獎」由濠江中學作品《一青見廬—匿於泥土與花間的密語》奪得，本屆發明展金、銀、銅獎均包含澳門區參賽作品。

今年以來，創新發明協會組織會員參加11個國家及地區的線上線下發明比賽，分別為莫斯科國際發明與創新技術沙龍阿基米德展，波蘭國際創新發明展（E-INNOVATE），第十五屆羅馬尼亞歐洲創意與創新展，中國國際智能產業博覽會，青少年專利孵化展，加拿大國際發明創新大賽，2022全球發明大賽中國區ICC，日本設計、創意與發明博覽會，美國INNOVERSE國際發明展，第十八屆宋慶齡少年兒童發明獎，韓國世界發明奧林匹克博覽會及上海國際發明展等，均收穫佳績，榮譽歸來。同場亦對獲獎者進行頒獎；除此之外，頒獎典禮上還同步舉行「粵港澳大灣區人工智能與自動化學會第一屆正、副會長及理監事就職儀式」，現場氣氛熱烈。

參與本次頒獎典禮的嘉賓還包括澳區全國人大常委、澳門立法會主席高開賢，中國發明協會黨委書記余華榮，澳門行政委員會委員周永豪，教育及青年發展局學生廳廳長陳旭偉，中國宋慶齡基金會基金部公益項目處二級主任科員楊亞晴，台灣創新發明聯合總會會長田寶武，俄羅斯工程院外籍院士謝勝利及世界發明智慧財產聯盟總會國際部部長施養隆等。



澳門創新發明協會會長黎栢強



本屆發明展共評出「創新發明」銅獎項目84個。



澳門創新發明協會會長黎栢強、重慶鄧鴻吉創發教育科技有限公司董事長鄧鴻吉為本屆發明展銀獎獲獎者頒獎。



本屆發明展共評出「創新發明」金獎項目222個。



粵港澳大灣區人工智能與自動化學會第一屆正、副會長及理監事就職典禮昨舉行。

History statistics of Macao International Innovation and Invention Expo

No.	Number of sessions	Year	Country / Region	Quantity of inventions	Attendances	Remarks
1.	11th	2023	95	523	623	Online and on-site
2.	10th	2022	95	486	308	Online and on-site
3.	9th	2021	54	479	503	Online and on-site
4.	8th	2020	45	391	230	Online
5.	7th	2019	56	342	362	On-site
6.	6h	2018	22	162	313	On-site
7.	--	2017	--	--	--	The Expo was suspended for a session because there was no venue
8.	5h	2016	16	156	354	On-site
9.	4h	2015	13	162	381	On-site
10.	3rd	2014	15	182	183	On-site
11.	2nd	2013	14	229	255	On-site
12.	1st	2012	22	187	240	On-site
Total			447	3,299	3,752	



2023年第11屆澳門國際創新發明展

The 11th Macao International Innovation and Invention Expo(MiiEX)2023

榮譽評審

Honorable Jury Panel

指導單位: 澳門政府

主辦單位: MIIA 澳門國際創新發明協會

協辦單位: 澳門國際發明展協會

電話伙伴: CTMA 澳門電訊

支持單位: IFIA

線上協辦單位: 澳門國際發明展協會

媒體支持單位: TDM 澳門廣播電視

THE ATENT 澳門國際發明展協會

澳門電視廣播

The 11th Macao International Innovation and Invention Expo 2023
The Honorable International Jury Panel Committee
(Listed in Alphabetical Order of Last Name)
















The 11th Macao International Innovation and Invention Expo 2023
The Honorable International Jury Panel Committee from the China and Taiwan, South and Hong Kong and Macao region
(Listed in Alphabetical Order of Last Name)
















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The Honorable Jury Panel of MIIA
















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