



## BRAIA 2019 Annual Letter

Dear members and friends of BRAIA,

Since the establishment of “Belt and Road” Aerospace Innovation Alliance (BRAIA) in April 2017, we have been working hand in hand for two and a half years, witnessing the birth and growth of the alliance. As the new year of 2020 is approaching, on behalf of Chinese Society of Astronautics (CSA) and Northwestern Polytechnical University (NPU), which co-initiated BRAIA, the Permanent Secretariat would like to express the sincere gratitude for your support and contributions to BRAIA's development in 2019 and wish you all the best in the coming year.

In 2019, with the support from BRAIA members and all friends, BRAIA now has 63 members from 21 countries. BRAIA Academic Committee was formed with 9 fellows elected. BRAIA first Regional Development Center—South Asia, based on National University of Sciences and Technology, Pakistan was established. A variety of events were successfully held by BRAIA's members in Egypt, Spain, Pakistan and Italy, including academic activities, student activities and BRAIA 2019 Council Meeting and General Assembly, etc.

In 2020, BRAIA will continue to grow and more universities, research institutes, international organizations and enterprises with global reputation will join BRAIA. More BRAIA Regional Development Centers will be set up and play the leading roles in driving cooperation in different regions. BRAIA Academic Committee will make its contribution in research cooperation, especially in organizing international conferences, publishing papers, initiating joint research projects, etc. BRAIA members and friends



are welcome to attend more BRAIA events. Meanwhile, BRAIA will further promote cooperation among universities, enterprises, governments and international organizations.

The BRAIA events in 2020 are proposed as following. Your suggestions are highly appreciated.

Time	City	BRAIA Event	Organizer
March	Islamabad	BRAIA South Asia Regional Communication Meeting	National University of Sciences and Technology, Pakistan
August	Beijing	BRAIA 4th Space Exploration Summer Camp and the 1st Spaceflight Experiments and Payloads Design Competition	Beijing Institute of Technology, China
October	Taicang	BRAIA 2020 Council Meeting and General Assembly	NPU, China
November	Xi'an	The 2nd China Microsatellite Symposium	NPU, China
TBD	Xi'an	International Contest on AI-based Intelligence Rocket Design	NPU, China
TBD	TBD	BRAIA academic activity (TBD)	TBD
TBD	TBD	More ...	TBD

We firmly hold the belief that with joint effort, the future of BRAIA and its members will be better.

Wish you all happy new year!

Appendix: BRAIA 2019 Annual Report

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## Appendix:

### **BRAIA 2019 Annual Report**

In 2019, a variety of events were successfully held by BRAIA's members in Egypt, Spain, Pakistan and Italy, including academic activities, student activities and alliance managerial meetings. All these events have efficiently increased the global impact of the alliance and strengthened cooperation among the alliance.

#### **I. Student Activities**

##### **BRAIA the 1st Winter Camp—2019 Light of Egypt (Cairo)**

BRAIA the 1st Winter Camp—2019 Light of Egypt took place during the period of Jan 21 to 31, 2019 in Cairo, Egypt. The winter camp was hosted by Military Technical College (MTC), Egypt. This was the first time that BRAIA had an activity out of China. Over 100 participants from 15 BRAIA member universities attended this camp. During the two weeks, participants took part in the lectures on aerospace science and technology, learning space industry and educational techniques. Meanwhile, they visited well-known Egyptian high-tech enterprises and competed in several contests including Water Rocket Launch, Optimum Design of Spacecraft Structure and Design of the Space Mission Using STK. Besides, participants experienced local culture and history by visiting Egyptian historic sites.



### **BRAIA the 3rd Space Exploration Summer Camp (Islamabad)**

BRAIA the 3rd Space Exploration Summer Camp was successfully held by National University of Sciences and Technology (NUST), Pakistan from July 15 to 23, 2019. With the theme of “High Performance Computing (HPC) in Aeronautics”, more than 80 teachers and students from 15 universities in the UK, Austria, Turkey, Malaysia, Pakistan and China participated in this





event. NUST invited more than 20 experts to deliver academic lectures around the development of HPC. The participants were also invited to visit Institute of Space Technology (IST), Pakistan and took part in a Water Rocket Contest. Participants were impressed by the organization of the successful event and appreciated all the learning and friendship achieved in the camp.

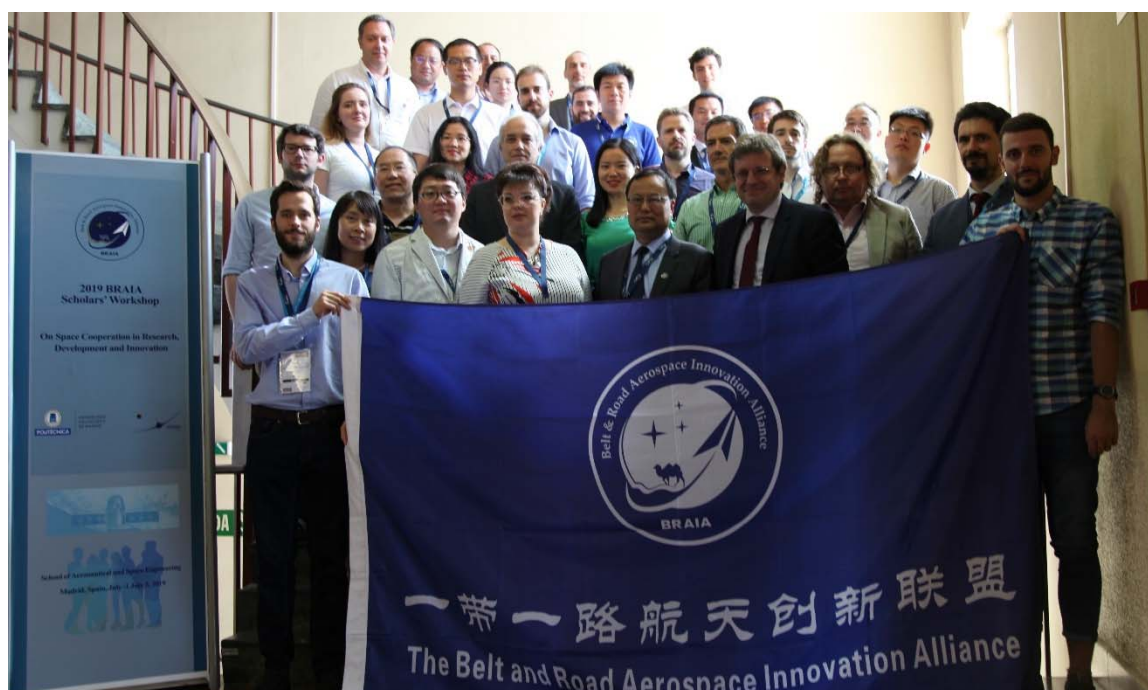




## II. Academic Activities

### BRAIA 2019 Scholars Workshop (Madrid)

BRAIA 2019 Scholars Workshop was successfully held by Universidad Politécnica de Madrid (UPM) from July 1st to 3rd in Madrid, Spain. More than 60 scholars from 8 countries - Argentina, Belgium, France, Italy, Russia, UK, Spain and China had fruitful sharing and discussions on the topic of “Space Cooperation in Research, Development and Innovation” in the areas of “basic subjects, space exploration and future trends”. The latest research progresses and the possibility of further cooperation were updated and explored.



### The 6th International Conference on Aerospace Science & Engineering (Islamabad)





The 6th International Conference on Aerospace Science & Engineering (ICASE) was hosted by Institute of Space Technology on November 12-14 in Islamabad, Pakistan in collaboration with BRAIA. The 6th ICASE is featured by a diverse blending of areas including Aeronautics and Astronautics, Satellite Technology & Applications, Mechanical Engineering for Aerospace Application, Aerospace Materials Design and Engineering. Nearly 300 participants attended this conference, and more than 40 international and national speakers invited from 20 different countries gave their keynote speeches and shared the recent research progress.



### III. Managerial Meetings

#### BRAIA 2019 Council Meeting and General Assembly (Milan)

BRAIA 2019 Council Meeting and General Assembly was successfully held



in Politecnico di Milano (POLIMI) from September 3 to September 4, which was the most essential annual managerial meeting this year. About 50 delegates from 19 universities and organizations from 10 countries including Argentina, Bangladesh, Belgium, Britain, Spain, Egypt, Italy, Poland, Russia and China attended the meeting. The meeting turned to be another successful meeting with valuable contributions from participants. The major outcomes of this meeting include the approval of 12 BRAIA new membership, election of 9 BRAIA Academic Committee members, establishment of BRAIA Academic Committee, and the consensus made on BRAIA first Regional Development Center—South Asia, based on National University of Sciences and Technology, Pakistan, etc.







#### IV. Other Events

Apart from the series events organized or co-organized by BRAIA, the PS also participated other relevant events to promote the alliance including the United Nations/China Forum on Space Solutions: realizing the sustainable goals on April 24-26, 2019 in Changsha, the Fifth China (International) Commercial Aerospace Forum on November 18-20, 2019 in Wuhan, and The International Cooperation Conference on Seed Breeding· Deep Ocean· Aerospace Technological Innovation and Industry Development in Hainan Free Trade Zone (Port) on November 19, 2019 in Haikou.

