



FIRA RoboWorld Cup and Summit

11th - 16th August, 2019

FIRA Frontier Camp

8th - 10th August, 2019

Hosted by FIRA, Gyeongnam Province, Changwon City

Organized by FIRA, Gyeongnam Robot Land Foundation



Important Dates

- 31st May 2019** Deadline for submission of qualification material
Teams that are represented through their region's FIRA chapter should contact their FIRA chapters for more details. This includes teams from Malaysia, Iran, China, South Korea, and Philippines.
- 15th June, 2019** Notification to qualified teams
- 30th June, 2019** Deadline for early-bird registration
- 14th July, 2019** Deadline for regular registration

FIRA RoboWorld Cup and Summit 2019

11th - 16th August 2019, Changwon, Korea

The Federation of International RoboSports Association (FIRA) invites new and old participants to the FIRA 2019 RoboWorld Cup and Summit in Changwon, Korea. The competition is to be held from 11th to 16th August 2019. FIRA is the oldest intelligent robot soccer competition and was founded by Prof. Jong-Hwan Kim, KAIST, Korea in 1996. FIRA focuses on three goals: (a) to provide challenging and motivating benchmark problems for state of the art research in intelligent robotics, (b) to give senior students with valuable skills and experiences that allow them to be productive and develop their careers in the new economy, and (c) to introduce junior students to the fundamentals of STEM topics (Science, Technology, Engineering, and Math).

The FIRA RoboWorld Cup includes competitions in the following leagues:

- [FIRA AIR](#) includes the use of autonomous flying vehicles in urban and disaster scenarios.
- [FIRA Sports](#) was the goal of developing robot athletes that can compete against humans in Olympic events
- [FIRA Challenges](#) focuses on complex challenges in industrial, rescue, and service robot settings
- [FIRA Youth](#) are competitions for our younger participants such as the mission impossible events

FIRA has experienced rapid growth in the last two years. The FIRA RoboWorld Cup 2018 in Taichung, Taiwan attracted more than 1,200 participants

Friendly competitions in the FIRA RoboWorld Cup give all participants a chance to make new friends and learn from each other.

Qualification

Teams that are interested in participating must submit their qualification material before the deadline. The qualification procedure is dependent on the division and league. Please contact the chairs and co-chairs of the event if you have any further questions.

FIRA Sports, FIRA Challenge, and FIRA Air

Qualification consists of two parts: (1) A max. 5 min long video showing the performance of your robot in the various sports events, and (2) a research paper (max. 12 pages in Springer LNCS format).

FIRA 2019 Call for Participation

Videos

Videos must be uploaded to a publicly accessible video sharing site such as youtube or vimeo. Post a link into the FIRA official registration website, available in <http://firaworldcup.org>

Team description paper (TDP)

All teams from this year should submit a team description paper (TDP). The TDP is limited to 4 pages maximum and must be submitted in PDF format. This report fully describes the scientific aspects of your robot system and your research interests, includes a summary of previous relevant achievements in research and development as well as publications, and mentions prior performance in FIRA competitions.

The TDP must follow the LNCS format which can be downloaded from <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>. Please pay special attention to the "Author guidelines" that you'll be able to find there. Teams that do to follow the LNCS formatting and style guidelines will not be qualified.

Research Paper

The EasyChair website for submission is <https://easychair.org/conferences/?conf=fira2019>. Note that there is no additional fee for teams submitting a paper to FIRA 2018.

FIRA Youth

Teams that are represented by a FIRA Chapter must qualify and register via their FIRA Chapter.

Teams that do not yet have a chapter may contact FIRA HQ directly for qualification. In this case, they should submit a two page write-up in English describing their previous experience in robotics and their motivation for joining the FIRA competition.

In addition, participants that would like to take part in the United Nations Mission must submit a two page write-up in English describing their previous experience in robotics and their motivation for joining the United Nations Mission.

Please note that each participant can only register in a maximum of three events.

Mission Impossible consists of three events this year, (1) Mission Impossible_H (Hardware) (2) Mission Impossible_S (Software) (3) Mission Impossible_U (United), and a prize for best team over all three events Mission Impossible Allround.

Venue and Competition Schedule

Tentative Schedule

8th - 10th August : FIRA Frontier Camp [FFC]

11th August: Set-up & registration for FIRA RoboWorld Cup

12th August: Opening ceremony, Competition

FIRA 2019 Call for Participation

12th - 16th August: Competition **detailed schedule will be announced*

15th August : Banquet

16th August : Closing (Victory) Ceremony

17th August: FIRA tour and social program

Changwon Exhibition Convention Center [CECO] and Changwon

Changwon, which is located on the southern central region of Gyeongnam in Korea, has been the main hub of the industrial economy in the central area of Gyeongnam. A vast, mechanical industrial complex in the southeast seashore of the heavy chemical industrial region connects Ulsan, Busan, and Sacheon.

FIRA RoboWorld Cup and Summit 2019 will be held in exhibition hall 2 & 3 which is 5,500 M² in total.



Click to find out more about [Transportation to CECO](#)

From Incheon airport to Changwon

Type	Travel time	Interval	Price	More information
Airport bus	5 hours +	50-100 mins	45,500 KW	Click Here and type in Changwon in search box
KTX	3 hours	9 -10 times a day	52,100KW	Click Here and type in changwonjungang in arrival

FIRA 2019 Call for Participation

Incheon airport - Seoul station for KTX	60 mins +	Frequently	Express:9,000 KW Normal: 4,500KW	Click Here for details
<i>Private bus</i>	<i>we will comeback with more information</i>			<i>Upon request</i>

From Gimhae airport to Changwon

Type	Travel time	Interval	Price	More information
Airport bus	40 mins +	40 mins	8,000 KW	Click Here for details
<i>Private bus</i>	<i>we will comeback with more information</i>			

Accommodation

There are many hotels near the venue however, there is no dormitory in the area. Please check out hotels below, hotels provide special rates from FIRA participants. Most of them are 3 minutes by car.

Click to find out more about [Accommodation near the venue](#)

[Special room rates for FIRA 2019 participants and reservation form](#)

Registration fee

Category	Early bird registration fee by 30th June	Regular registration fee by 14th July	Late registration fee by 20th July	Additional member	Condition
Sport/ Challenge/ Air	650	750	850	150	1 coach/ 4 members
Youth	160	200	250	-	up to 3 games
Youth coach	100	150	200	-	

Payment information

You can either TT the fee or pay by Paypal.

Paypal button on

FIRA website registration page

Bank information

Bank Name: Woori Bank

Account Number: 1081-400-856925

Account Name: FIRA 2019

Brand Name: Unjeong Center Branch, Paju Korea

Swift code: HVBKKRSEXXX

FIRA Frontiers Camp [FFC]

8th - 10th August 2019, Changwon, Korea

The FIRA Frontiers Camp (FFC), to be held just prior to FIRA RoboWorld Cup, provides a unique opportunity to learn the fundamentals of robotics. The focus is on basic problem solving strategies, system development, testing, and debugging. Students will learn physics, 3D modeling, 3D printing, and software design. It also teaches students how to apply their robotics skills in other subjects such as physics and biology.

It must be stressed that the goal of the school is not to directly improve the chances of winning the following FIRA competitions. In fact, the lecturers and coaches will not be directly involved in the following FIRA competition as much as possible and will be told not to provide tricks and hints for the coming competition.

The FIRA Frontiers Camp is agnostic to the specific robot development kit and uses open-source software and hardware as much as possible.

Important Dates

31st May 2019 Deadline for submission of qualification material

15th June, 2019 Notification to qualified teams

30^t June, 2019 Deadline for early-bird registration

14th July, 2019 Deadline for regular registration

Qualification

Each participant must submit their own qualification material in English. Please provide a 1 - 2 page description of your previous experience, your current robot system and development environment, and your interest in robotics. In addition, participant personal data, such as name, school, address, phone, email, etc, is also included.

Submit your material as a pdf file to the Christine Kim (christine@fra.net)

Registration Fees

The following fees include registration fee, tuition costs, teaching materials, accommodation at the Yisungshin Leadership International Center, and cafeteria meals (breakfast, lunch and dinner).

Early bird (30th June) : \$250 USD per person

Regular (14st July) : \$350 USD per person

Venue : Yisungsin's Leadership International Center

<https://www.changwon.go.kr/yisunsin/index.do>

FIRA 2019 Call for Participation



More information on

www.fira.net

<https://www.facebook.com/groups/firarobot/>

Contact

FIRA HQ Executive Secretary : Christine Kim christine@fira.net / +82-10-5208-4354

Robotland Foundation : Sung Hee Jung shch1224@gnrobot.or.kr / +82-10-7570-3288
