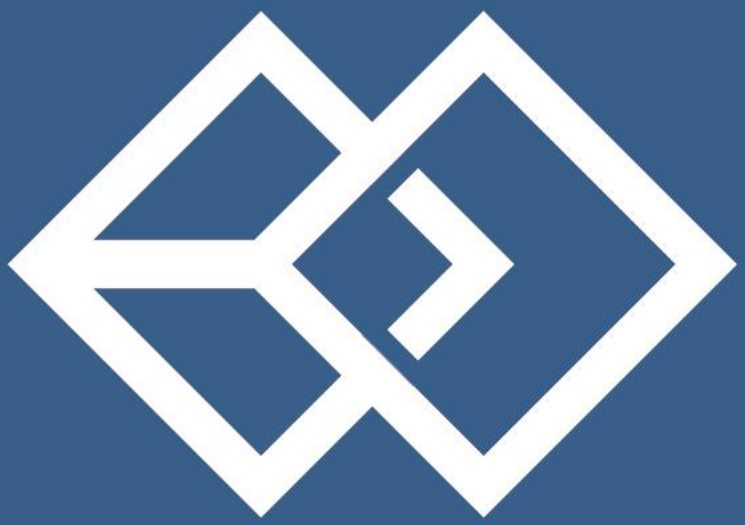
GUIDEBOOK



IEEE FUSION

FUTURE SCIENCE AND INNOVATION SUMMIT

IEEE
ITB STUDENT BRANCH

Innovation Contest

Description and Purpose

Innovation Contest is a competition held by IEEE ITB Student Branch to find the best innovation among participants from all around Asia. Innovation must be a real invention that can be directly implemented in the form of prototypes, systems, products, or platforms. Participants should make their creation according to the themes and subthemes specified.

Any undergraduate from Asia may join IEEE Fusion 2019 Innovation Contest. The purpose of this event is to improve the students' ability to make an up-to-date innovation. Furthermore, this competition can train students to make scientific paper and to present their work to people.

Theme

"Technology for Humanity"

Technology is developing rapidly and this is almost unstoppable. Technology development is undeniable due to human needs. Human nature that is never satisfied causes the birth of new technology to solve problems that arise. Indirectly the development of true technology for human life.

Subtheme

1. **Renewable Energy**
   Innovation is a form of a process, system or prototype in refining renewable resources (sunlight, wind, rain, tides, waves, biomass, plantation, geothermal heat, etc).
2. **Financial Technology**
   Develop new technology and innovation that aims to compete with traditional financial methods in the delivery of financial services.
3. **Social Technology**
   Build a way using human, intellectual and digital resources in order to influence social processes via social software or social hardware.

4. **Health Technology**
   Make a health technology application of organized knowledge and skills in the form of devices, procedures and systems developed to solve a health problem and improve the quality of lives.
5. **Eco-Friendly Technology**
   Build Eco-friendly technology help preserve the environment through energy efficiency and reduction of harmful waste.

Venue and Date

1. Technical Meeting
   - Venue: Multimedia Room
   - Date: Thursday, October 11st, 2019
   - Time: 07.30 PM – end (GMT + 7)
2. Competition Day (Final)
   - Venue: Bandung Institut Of Technology
   - Date: Friday, October 12nd, 2019
   - Time: 07.30 PM – end (GMT + 7)

General Rules

1. All participants must still be an undergraduate student of their university until October 2019.
2. Participants are in a team, consists of 3 members that are from the same university, one of the members should be the team leader.
3. Every participant is only allowed to be on one team.
4. The team is not participating in another competition in IEEE Fusion 2019.
5. Each campus may send more than 1 representatives.
6. Each team may only send one paper
7. Participants' work must be based on the given theme.
8. Participants' work does not c0ontain any elements of plagiarism.
9. All submission of the full paper and final presentation materials should be typed, submitted, and presented in formal English.
10. Top 10 teams will advance to the final round.
11. Finalists are required to bring their works to be presented to the judges.

12. The committee may share any information related to participants' work.
13. The decision of the judges and the committee cannot be contested.
14. Every participant who violates the rules will be disqualified.
15. Any information changes will be notified through the IEEE ITB SB website and official account, also participants' email.

Registration

Wave	Period	Fee (National)	Fee (International)
First	July 15th, 2019 to August 15nd, 2019	IDR 150.000	12 USD
Second	August 16rd, 2019 to September 7st, 2019	IDR 200.000	16 USD

1. Participants must create a team account at our website. Registration will be conducted in IEEE ITB SB 2019 website at http://www.ieee-itb-sb.com/register on July 15th, 2019 until, September 7th, 2019 at 23.59 (GMT + 7).
2. Participants must complete the registration payment and should wait for confirmation from the competition committee. Fees have to be paid to
   - **National**
     - Number: 0820764576
     - Bank: BNI
     - Person Name: IEEE STUDENT BRANCH
   - **International**
     - Paypal Email : ieee.sbitb@gmail.com

Competition Format

1. Full Paper Submission

- Full paper submission will be held:
  - July 15th, 2019 to August 15th, 2019 (First wave)
  - August 16th, 2019 to September 7th, 2019 (Second wave)

- The submission of Full Paper along with the invoice must be uploaded before August 15th, 2019 at 23.59 (GMT + 7) for first wave and before September 7th, 2019 at 23.59 (GMT + 7) for second wave here.
- Participants must submit the paper soft file to the website with format: **IEEEITBSB2019_InnovationContest_Preliminary_(Team Name).pdf** and then submit to our website using team account. After submitting your paper, please verify immediately to our contact person.

2. Final Phase (Presentation)

- Final round team announcement will be on September 21st, 2019 and will be shared at IEEE ITB SB 2019 official account and sent directly to your leader's email.
- Participants who are entitled to be the finalists are top 10 teams that have passed the Full Paper stage.
- The presentation will be held at Institut Teknologi Bandung, West Java, Indonesia, for 3 days:
  - October 11st, 2019: Technical meeting
  - October 11st, 2019: Presentation and Exhibition
  - October 12nd, 2019 : Grand Seminar and Winner Announcement.
- Those teams will present their solution in front of judges at the Final day
- At this stage, each team prepared a presentation for the judges.
- Each team will be given 10 minutes for presentation, 5 minutes for a demo, and 10 minutes for question and answer with the judges.
- Participants present their work to the judges.

Structure Format

The assessment will be based on the portion below.

1. **Preliminary (Paper):**
   - **Suitability (10%)**
     - The idea suits the theme of the competition
     - The essay suit IEEE format of writing
   - **Originality(20%)**

- The author's originality in terms of ideas and arguments
- Is it better than any other ideas if it is similar

- **Argumentation and Feasibility(50%)**
  - How the idea could solve the problems
  - How the idea could be made on a larger scale and its potential to be successful
  - How the idea sound realistic
- **Writing Style (15%)**
  - Cost efficiency
  - Market value of the idea

2. **Final (Presentation):**
   - **Depth of Content(50%)**
     - Research deals with an important issue in the field of study including goals/motivation questions that provide the audience with a sense of the project's main idea.
     - Information is accurate and questions from the judges can be answered well.
     - The ideas are applicable and creative.
   - **Organization (20%)**
     - Presentation is clear, logical and organized.
     - The material is presented in a logical manner.
     - Time management
   - **Presentation (Oral presentation and delivery) (20%)**
     - Clarity and directness (tone, pace, pronunciation, and volume)
     - Eye contact and manners
     - Grammar, fluency and word choices
   - **Visualization of the material (10%)**
     - Neat slides
     - Visual materials are easy to read. (ex: graphics and charts)

Please note that the preliminary phase score is **accumulated** to the Final phase.

Key Dates

#	Event	Date
1	Open Registration	July 15th, 2019
2	First Wave Period	July 15th, 2019 to August 15nd, 2019
3	Second Wave Period	August 16rd, 2019 to September 7st, 2019
4	Close Registration	September 7st, 2019 at 23.59 (GMT + 7)
5	Finalist Announcement	September 21st, 2019
6	Technical Meeting	October 11st, 2019
7	Final Competition	October 11st, 2019
8	Grand Seminar and Winners Announcement	October 12nd, 2019

Results

1. The result of full paper submission will be announced at IEEE ITB SB website.
2. The result of the competition will be announced at the Grand Seminar.
3. Judges' decisions are final and absolute.

Prizes

Rank	Cash Prize	Certificate
1st	IDR 10,000,000	✓
2nd	IDR 7,500,000	✓
3rd	IDR 5,000,000	✓

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