

Call for Student Innovations

1 Description

ICAT (International Conference on Information, Communication and Automation Technologies) is the annual conference organized by Faculty of Electrical Engineering Sarajevo (ETF Sarajevo) since early 70's, and it aims to create a forum for scientists and practicing engineers throughout the world to present the latest research findings and ideas in the areas of computer science, information technologies, control systems, communication technologies and power engineering. ICAT 2023 Student Innovations (SI) will take place as part of the ICAT 2023 conference. The SI provides an opportunity for master and bachelor students to further develop and advance their innovative ideas under the guidance of distinguished researchers and industry practitioners from the field.

Bachelor, master and high-school students are invited to apply to present their innovative ideas, concepts, and solutions for various societal problems to experienced scholars who will provide constructive feedback and advice. Students should consider applying in the competition if they at least have a draft of a conceptual solution for the selected problem.

This forum will provide students with an opportunity to:

- Present and discuss their innovative solutions to experienced scholars in a supportive, formative, and yet critical environment;
- Explore and develop their interests under the guidance of distinguished researchers from the field who will provide constructive feedback and advice.

Students are asked to submit a brief description outlining their innovative solution (see detailed requirements below), which will be evaluated by the consortium committee. Good quality applications will be selected for presentation at a Student Innovation Session as part of the conference. Each student with an accepted submission will be provided with a detailed review and the contact of the assigned reviewer for further discussion and improvement of the student's work. The submissions will not be published publicly.

2 Important Dates

- Paper Submission: ~~April 30, 2023~~; **(extended to May 27, 2023)**

- Notification to authors: May 22, 2023;
- Conference: June 11–14, 2023;
- SI day: June TBD, 2023;

Note: The submissions deadlines are at 11:59 pm AoE time (Anywhere on Earth)

3 General Guidelines

Candidates must submit their SI descriptions by the submission deadline. Each paper should be a single PDF, of maximum four pages length + references, with a following structure:

1. **Introduction** provides problem definition which is aimed to be solved, short description of the conceptual solution, as well as a reasoning about the innovativeness of the solution.
2. **Related work** elaborates on the other attempts to solve that or a similar problem and clearly addresses where and how those fail to solve the defined problem.
3. **Methodological approach** for solving the problem should contain description of methods and tools that are (or will be) used to solve the problem.
4. **Solution, draft or conceptual solution** should contain details on design of the proposed solution.
5. **Conclusion** includes discussion about the informativeness of the solution, limitations and, when applicable, future, missing steps necessary for completing the project.

The SI targets students who have a clear, elaborated and already drafted idea of a solution for the chosen, defined problem. Four-page solution description excluding references, using a IEEE double-column format (A4 size) for ICAT 2023, as discussed below, should also provide the following information: Your name, Advisor(s) name(s) (if applicable), and the university where you are conducting your work.

Please ensure that your submission is complete and conforms to the format and content guidelines above. Submissions that do not meet these requirements will be desk-rejected.

4 Submission Guidelines

Proposals will be reviewed single-blind and do not need to be anonymized before submission. Submissions should be a single pdf document with the previously

defined structure. Papers should follow the IEEE double-column format (A4 size). Standard IEEE conference templates are found here¹, and detailed guidelines for creating manuscripts can be found here². The process will be done with submission via email inovacije-list@etf.unsa.ba. All authors of the submission should be added in cc of the email, and all submissions should contain the consent of all contributors of the work claiming that it is their original work (in case this is a Master/Bachelor thesis, they should include the consent of the supervisor).

5 Review Process and Criteria

Reviewers will evaluate submissions based on their significance, originality, rigor, and contribution to the problem defined. Papers that are incomplete, or lack sufficient evidence to support the basic claims, may be rejected without full review. Furthermore, reviewers will be asked to comment on whether the length is appropriate for the contribution. All reviewers will commit to follow COPE Ethical Guidelines.

The IEEE Code of Ethics gives the program committee the right to (desk-)reject papers that perpetuate harmful stereotypes, employ unethical research practices, or uncritically present outcomes/implications that disadvantage minoritized communities. Further, reviewers will be explicitly asked to consider whether the research was conducted in compliance with professional ethical standards and applicable regulatory guidelines. Failure to do so could lead to a (desk-)rejection

6 Topics

The submissions are recommend but not restricted to the following topics:

- Education
- Energy
- Healthcare
- Agriculture
- Engineering

7 Awards

The best ideas and their realizations will be supported and awarded by the following steps:

¹<https://www.ieee.org/conferences/publishing/templates.html>

²<https://www.ieee-ies.org/conferences/paper-format-for-conferences>

- The students will be assigned a supervisor if they need one to help them polish the idea and write a good research paper.
- From the set of pre-selected suitable scientific conferences (depending on the field of the proposed work), which are ranked as A or B by *Qualis* and *ERA* conference ranking systems, the student and their supervisor can select one and submit their paper to the chosen conference.
- If the paper is accepted, the conference and the trip to the conference will be funded up to 3.000 BAM for the student, by Telemach Foundation.
- The three best works, as selected by the program committee, will be awarded 500, 300, and 200 BAM respectively, provided by the Faculty of Electrical Engineering, University of Sarajevo.