

IEEE SPS 5-Minute Video Clip Contest (5-MICC) at ICIP 2023  
Call for Videos

The Signal Processing Society is pleased to announce the 5-Minute Video Clip Contest (5-MICC) at ICIP in Kuala Lumpur, Malaysia October 08 - 11, 2023.

The 5-MICC aims to encourage the signal processing community to explain concepts in an innovative way using a video. The winners will be selected based on the quality of their project, novelty, clarity of presentation, and creativity.

This year the competition will run with an open topic within the scope of the ICIP. The submitted videos should address the following topics:

Sensing, Representation, Modeling, and Registration  
Motion Estimation, Registration, and Fusion  
Synthesis, Rendering, and Visualization  
Deep Learning for Images and Videos  
Computational Imaging  
Learning with Limited Labels  
Restoration and Enhancement  
Image & Video Interpretation and Understanding  
Compression, Coding, and Transmission  
Detection, Recognition, Retrieval, and Classification  
Color, Multi-spectral, and Hyper-spectral Imaging  
Biometrics, Forensics, and Security  
Stereoscopic, Multi-view, and 3D Processing  
Biomedical and Biological Image Processing  
Image & Video Quality Models  
Emerging Applications and Systems

The contest is open for submissions from IEEE SPS members, including undergraduate and graduate students of all majors, as well as researchers from all over the world. Each team must be composed of:

- i. One faculty member (the Supervisor)
- ii. at most one graduate student (the Tutor),
- iii. at least three but no more than ten undergraduate students. At least three undergraduate team members must be either IEEE SPS student members or SPS members by the time they submit the full 5-minute video (see below).

**Organizers – Student Services Committee:**

Angshul Majumdar, Indraprastha Institute of Information Technology, India  
Lucas Thomaz, Instituto de Telecomunicações/Polytechnic of Leiria, Portugal  
Shan Du, University of British Columbia, Canada  
Hemant Kumar Aggarwal, University of Iowa, USA

## **There will be three stages for the call:**

### **1. Submission of 30-Second Trailers:**

Submission deadline: **July 29<sup>th</sup>, 2023**

Announcement of the best 10 teams: **August 5<sup>th</sup>, 2023**

Each submission should include a report, in the form of an IEEE conference paper, up to 2 pages, on the main idea/concept of the full video that will be submitted with the related written script. The selected best 10 teams will be identified and invited to send the final 5-minute video to participate in the final competition.

### **2. Submission of the Full 5-Minute Video:**

Submission deadline: **August 27<sup>th</sup>, 2023**

Announcement of the 3 best videos: **September 3<sup>rd</sup>, 2023**

Three finalist teams will be selected by the organizers.

### **3. Final Contest at ICIP 2023 in Kuala Lumpur, Malaysia. Conference dates: October 8-11, 2023**

Videos available on public voting platform: **September 10<sup>th</sup> – October 10<sup>th</sup>, 2023**. The final ranking will be decided by the organizers, also taking into account the popular vote. The winners and final team ranking will be announced during the conference.

## **Prize for Finalists**

The three teams with highest performance in the open competition will be selected as finalists and invited to participate in the final competition at ICIP 2023. The champion team will receive a grand prize of \$5,000. The first and the second runner-up will receive a prize of \$2,500 and \$1,500, respectively, in addition to travel grants and complimentary conference registrations.

- Up to three student members from each finalist team will be provided travel support to attend the conference in-person. In-person attendance of the physical conference is required for reimbursement.
- Complimentary conference registration for the three finalist team members from each team who present at ICIP. These complimentary conference registrations cannot be used to cover any papers accepted by the conference. If you are one of the three finalist team members from each team and wish to receive complimentary registration and/or conference banquet access, you must email Jaqueline Rash, [jaqueline.rash@ieee.org](mailto:jaqueline.rash@ieee.org), with this information once your team has been selected as a finalist.

- The three finalist team members from each team will also be invited to join the Conference Banquet and the SPS Student Job Fair, so that they can meet and talk to SPS leaders and global experts. Please note registration for the Conference Banquet and Student Job Fair is limited and based on availability.

## **Team Eligibility Criteria:**

### Team Eligibility:

- Team composition: Each team **must** be composed of: (i) One faculty member (the Supervisor); (ii) At most one graduate student (the Tutor), and; (iii) At least 3 but no more than 10 undergraduates. *At least three of the undergraduate team members **must** be SPS student members.*
- Further definitions of each position are as follows:
  - Faculty (Supervisor): Postdocs and research associates are not considered as faculty members.
  - Graduate Student (Tutor): A graduate student is a student having earned at least a 4-year University degree at the time of submission.
- Students receiving travel grant and prize payments **must** be active SPS members at the time of team formation. Signal Processing Society membership can be added [here](#).

### Team ineligibility in addition to the above:

- Teams that are composed with 50% or more of its members being students who have previously participated on a finalist team of another SPS competition within the last calendar year are not eligible.
- Teams with the exact same member composition of a previously placed team in the top 3 of another SPS competition within the last calendar year are not eligible.
- Team members who have placed in the top three of another SPS competition during the same calendar year, i.e. members from the 3 finalist teams of the 2023 SP Cup or 5-MICC (at ICASSP) will not be eligible to participate in the 2023 VIP Cup or 5-MICC (at ICIP).
- Team members cannot simultaneously participate in more than one competition at the same time, i.e. the VIP Cup and 5-MICC at ICIP.

*Please note: For all SPS competitions, the competition results may be announced on the IEEE Signal Processing Society website, newsletter, and IEEE Signal Processing Magazine.*

## **Judging Criteria:** (Suggest 5 sets of judging criteria as mentioned below.)

The judging for the final phase of the competition held live at the conference will be based on five equally weighted criteria. Each of the three finalist teams will be scored on the five criteria and the team with the highest score will place 1st, the team with the second highest score will place 2nd, and the team with the third highest score will place 3rd in the competition.

### The five equally weighted criteria are:

1. Innovation of the proposed approach
2. Performance of the first stage competition (by choosing the best submission, score as indicated on the website)
3. Performance of the last submission (second phase held live at the conference) separately on the dataset(s)
4. Quality and clarity of the final report
5. Quality and clarity of the presentation

Each criterion is scored with a 1, 2, or 3; the best team in each criterion will receive 3 points, the second best team will receive 2 points, and the third best team will receive 1 point. The final winning rankings will be based on the highest points awarded from the five criteria during judge deliberations at the end of the competition. Final rankings are ultimately decided by the judges at their discretion.

## **Judge Participation**

### **Conflict of Interest**

Any judge or team supervisor participating in the competition must sign a Conflict-of-Interest Form agreeing to the following key points. Full information is on the Conflict-of-Interest Form.

1. Conflict of Interest concerns shall be disclosed and addressed in accordance with IEEE Policies 9.9 A, B, and C and IEEE Policy 4.4.H. - Eligibility and Process Limitations. Judges-involved at any stage of the team rankings/scoring process for an SP competition shall be ineligible to judge/vote on the outcome of team rankings for the competition in which the conflict exists. Any real and perceived conflict of interest shall be avoided. Conflict of interest shall be defined as any relationships, professional or otherwise, that can affect impartiality and objectivity. Such relationships include, but are not limited to the below list. This list also applies

- a. faculty supervisor/student,
- b. faculty supervisor/post-doc,
- c. manager/employee,
- d. shared institutional affiliations,
- e. recent (less than five years) research collaborations or joint authorship,
- f. judge/team supervisor
- g. In the case of a conflict of interest, the judge should neither listen to nor speak in the discussion and should not vote on the team scoring/ranking process.

In our SPS Policies and Procedures (<https://signalprocessingsociety.org/volunteers/policy-and-procedures-manual>)

**The IEEE Conflict of Interest form must be completed before participating in the competition. The Conflict of Interest form can be completed at the following link: <https://www.ieee.org/about/compliance/conflict-of-interest/coiandpob.html>**

### **Conflict Resolution Process**

The Society leadership will create an ad hoc committee to handle each matter requiring conflict resolution.

1. **Composition.** The composition of each ad hoc committee will include area experts. The experts should be chosen based on mediation experience or subject area experience. All members of the ad hoc committee should be non-conflicted, e.g., no prior involvement in the situation, no collegial work relationship, etc. The committee may be augmented with the agreement of all members of the ad hoc committee. The committee will select its own chair.

2. **Process.** During the first meeting of the ad hoc committee, the committee shall create a timeline detailing the conflict resolution process, as well as determine any operational rules for the ad hoc committee's operation (e.g., length of final report; length of statement of dissent, etc.) The individual who brought the conflict matter forward shall be informed of the timeline. All discussions and information presented to the ad hoc committee shall be handled in a confidential manner.

Decisions need not be unanimous; final outcomes may be determined by majority vote of the membership of the ad hoc committee. Dissenting members may include their dissenting opinion as part of the report; the length of such dissent will be determined as part of the committee's operational rules.

After the ad hoc committee has determined its final ruling, the ad hoc committee chair shall be responsible for preparing a short report documenting the committee's findings. The report shall be provided to the individual who brought the conflict matter forward.

3. **Appeal.** If the individual who brought the conflict matter forward feels that the matter has not been adequately resolved by the ad hoc committee at the Society level, the individual may escalate the matter further to TAB or IEEE. The ad hoc committee report shall be shared with TAB and/or IEEE.