



Civil  
Analysis &  
Photography

# CIVIL ANALYSIS & PHOTOGRAPHY COMPETITION

AN INTERNATIONAL ONLINE STRUCTURAL ANALYSIS COMPETITION

**TOTAL PRIZE**

**IDR 4,000,000.00!**

**THEME: STEEL STRUCTURES**

**OPEN REGISTRATION ---**

Saturday, January 13, 2018 until  
Sunday, February 18, 2018

**OPEN INTERNATIONALLY**

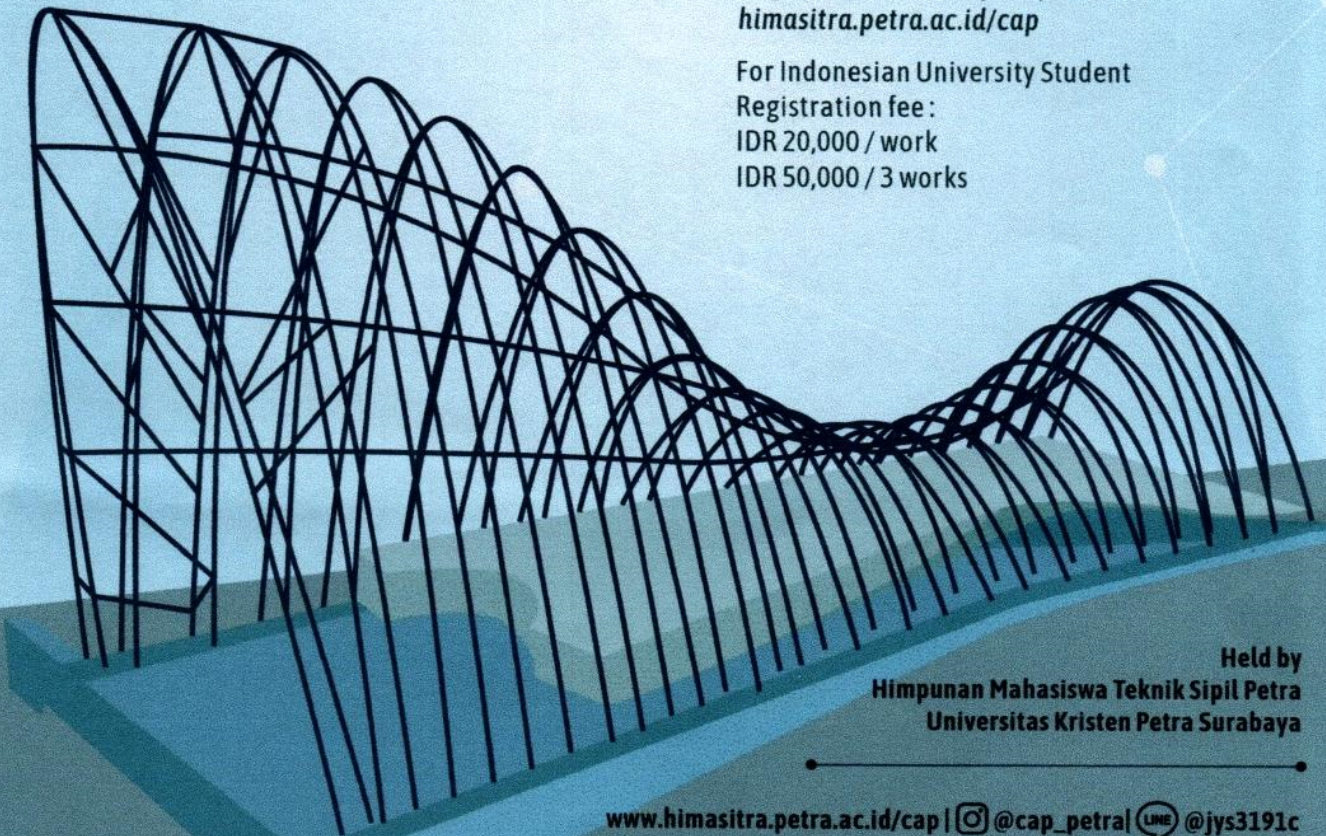
Register and Submit your photo at:  
[himasitra.petra.ac.id/cap](http://himasitra.petra.ac.id/cap)

For Indonesian University Student

Registration fee:

IDR 20,000 / work

IDR 50,000 / 3 works



Held by  
Himpunan Mahasiswa Teknik Sipil Petra  
Universitas Kristen Petra Surabaya

[www.himasitra.petra.ac.id/cap](http://www.himasitra.petra.ac.id/cap) | @cap\_petra | @jys3191c





# **GUIDELINE** **CIVIL ANALYSIS** **& PHOTOGRAPHY** **COMPETITION**

**AN INTERNATIONAL  
ONLINE STRUCTURAL ANALYSIS COMPETITION**

by  
Civil Engineering Department Students' Council  
Petra Christian University



# ABOUT CAP 2018

Civil Analysis and Photography (CAP) is an online analysis competition held by Civil Engineering Department Students' Council of Petra Christian University, Surabaya, Indonesia. CAP was first held last year in 2017, and after getting many good responses from both contestants and other parties, this year, we are going to hold this

## BACKGROUND ISSUE

In this past 10 years, with the wide development in our infrastructures, more people are showing their interest in Civil Engineering world. Adapting to this development, practice is the best word to describe the way to survive in this change. By looking around our surrounding buildings and structures, we can actually practice our sense as what sorts of solutions we think might be successfully applied when seeing a problem. Or we can just simply enjoy the beauty and uniqueness of a structure and share it with other people.



# SUBMISSION GUIDELINE

## PHOTO ENTRIES

- Image data files created with any digital device including smartphones, digital still cameras (including medium and large-format cameras).
- Images that have been retouched using software or by other means will be accepted. Retouched photography using a camera app or photo editing app is also accepted.
- Both color and monochrome images will be accepted.
- File size: up to 20 MB of image data per work.
- File format: JPEG/150 dpi recommended.
- The standard color space for the judging process is RGB.

## ELIGIBILITY

This competition is open to all Undergraduate Students from all around the world.

## VIDEO ENTRIES

ONLY FOR THE 20 SELECTED WORKS

- Video must contain the reasons of photo selection and a short analysis of the photograph.
- Entrants must be the one who appears in the video (Can't be replaced with any 3rd party).
- The analysis must be either delivered in English or Indonesian with English subtitles.
- Entrants must mention their name, university and country they come from.
- Entrants must mention in the video that they are participating in Civil Analysis and Photography Competition held by Petra Christian University.
- Any video-recording device may be used.
- Maximum duration of the video is 1 minute.
- Entrants will upload their video to their own youtube account and submit the video link to [himasitra.petra.ac.id](mailto:himasitra.petra.ac.id).

## NOTIFICATION TO APPLICANTS

Applicants will be notified through the registered e-mail addresses as soon as we receive your submission.



# JUDGING

There will be 2 rounds of judging.

## 1. First Round :

There will be 3 kinds of assessments:

(all assessments are scaled from 0 to 5)

**Analysis Assessment:** Judges will assess the photo's analysis.

**Suitability with the theme:** All photos that are related to the theme (steel structure) will directly be given +5 points, else will be given 0 as it is not related to the theme.

**Photos Qualification:** This will determine whether the photos is qualified to be voted for People's Choice Award.

## 2. Second Round :

This time judges will assess the videos submitted. Judges will only assess the content of what Entrants are saying in the video. Beware of any disturbances (wind, crowd, etc) that may affect the voice's clarity. Video's quality will not be assessed.

### People's Choice Award (Photo Category)

- People's Choice Award will be selected by the amount of likes from CAP Official Instagram Account.
- Entries that can participate as a nominee are those whose works are selected (see Judging - Photo Qualification). There will be a notification if your work is selected as nominees.

### People's Choice Award (Video Category)

- People's Choice Award will be selected by the amount of likes from CAP Official Instagram Account.
- Entries that can participate as a nominee are those who are selected as a finalist and pass the first round of judging.



# TIMELINE

## REGISTRATION AND PHOTO SUBMISSION

Registration and submission will be done only through website [himasitra.petra.ac.id/cap](http://himasitra.petra.ac.id/cap).  
Registration and submission period starts Saturday, January 13, 2018 (00:00, GMT+7) until Sunday, February 18, 2018 (23:59, GMT+7).

## FINALIST ANNOUNCEMENT

20 finalists will be announced through website [himasitra.petra.ac.id/cap](http://himasitra.petra.ac.id/cap) on Thursday, March 1, 2018

## FINAL : VIDEO SUBMISSION

Entrants will upload their video to their own youtube account and submit the video link to [himasitra.petra.ac.id/cap](http://himasitra.petra.ac.id/cap).

Video Submission period starts on Friday, March 2, 2018 (00:00, GMT+7) until Sunday, March 18, 2018 (23:59, GMT+7).

## WINNERS ANNOUNCEMENT

5 winners will be announced through website [himasitra.petra.ac.id/cap](http://himasitra.petra.ac.id/cap) on late March



# PRIZES AND AWARDS

## 1<sup>ST</sup> WINNER

IDR 1,250,000.00  
Digital Certificate

## 2<sup>ND</sup> WINNER

IDR 1,000,000.00  
Digital Certificate

## 3<sup>RD</sup> WINNER

IDR 750,000.00  
Digital Certificate

## PEOPLE'S CHOICE

PHOTO CATEGORY

IDR 250,000.00  
Digital Certificate

## PEOPLE'S CHOICE

VIDEO CATEGORY

IDR 250,000.00  
Digital Certificate

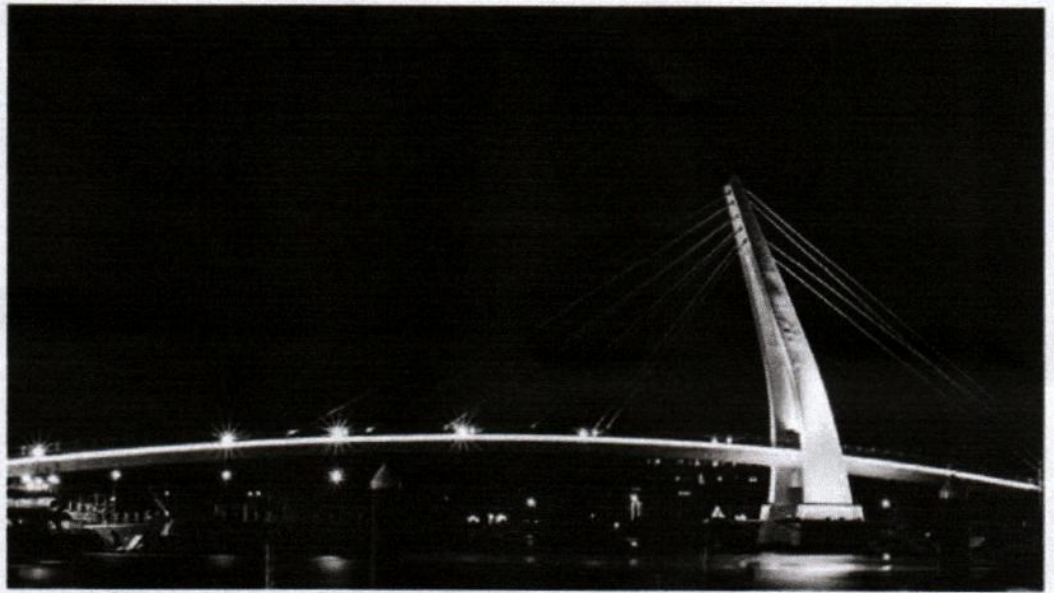


# DISCLAIMERS

- Entries and the persons depicted therein are restricted to works for which the entrant holds the copyright or for the use of which the entrant has received the prior permission of the right holder.
- The entrant is responsible for taking all steps necessary to protect the rights of persons depicted, including but not limited to obtaining their permission.
- Entrants are responsible for the resolution of any legal issues arising from their works and agree to pay any costs thereby incurred.
- The organizer reserves the right to disallow entries that depict brand logos or other intellectual property, whether on signs or posters or in other forms, or that in its judgment are harmful to the public order, violate standards of decency or are contrary to the goals of the competition.
- Entrants must hold all applicable rights to the final image, including any retouching or other image processing.
- Entries are only accepted through the Internet.
- Entrants shall bear all costs incurred by entering the contest.
- Entering the contest constitutes agreement to the terms and conditions stated in these Submission Guidelines.
- The organizer reserves the right of final judgment concerning items not expressly stated in these Submission Guidelines. Entrants who do not consent to the organizer's decisions may withdraw from the competition. All costs associated with withdrawal from the competition are to be borne by the entrant.
- Once submitted, entries will not be returned to entrants under any circumstances, even if they are later withdrawn.
- Please note that the organizer may elect to suspend or postpone receipt of any or all entries if in its judgment the competition cannot be run smoothly, securely or without affecting the fairness of the judging due to circumstances beyond its control, including but not limited to network failure, computer viruses or unauthorized access to its servers.
- Please note that no response shall be given to any inquiries or complaints regarding the judges' decisions.
- The organizer does not accept responsibility for damages arising from or related to circumstances beyond its control, including but not limited to network failure, computer viruses or unauthorized access to its servers.
- The organizer reserves the right to publish all entries onto websites and social networking service accounts related to the contest. Some entries may be cropped for publication.



# EXAMPLE

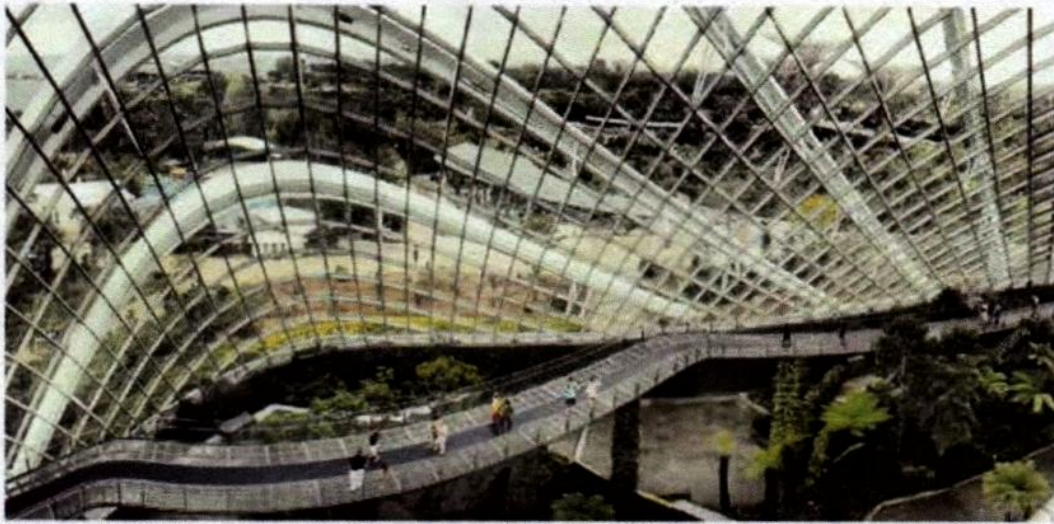


**Albert Tirto**  
**2017 CAP Participant**

**Title : One Pilar is Enough**

This bridge is located on the Tamsui District located in Taipei City, Taiwan and have been opened since 14 February 2003. This bridge is designed only for pedestrians because the width not allow to pass by car. This bridge has a cable stayed construction where the cables also support the weight of the bridge. In addition to the unique bridge is only the pillars are connected by cables that withstand the load. In general, the bridge has two pillars to connect the cable.





**Rafael Lorens**  
**CAP 2017 Participant**

**Title: Gridshell Design For Asymmetric Surface**

Cloud Forest is one of the two conservatories at Garden by The Bay, Singapore. Constructed with steel structure and glass plates as the roofing system, this multi-climate garden applying gridshell design which is intended to distribute all the compression force. Yet, its asymmetric surface makes it difficult to fully distribute the loads -- wind or another concentrated loads, and it could generate local bending at the surface. Therefore, an additional structure which is a larger member was installed as a trestle to accommodate the asymmetric loads, and thus increased work efficiency of the compression members. At first glance, such trestle made the structure look inefficient in terms of size. However, this design could provide better natural lighting as a part of sustainability

# EXAMPLE



