

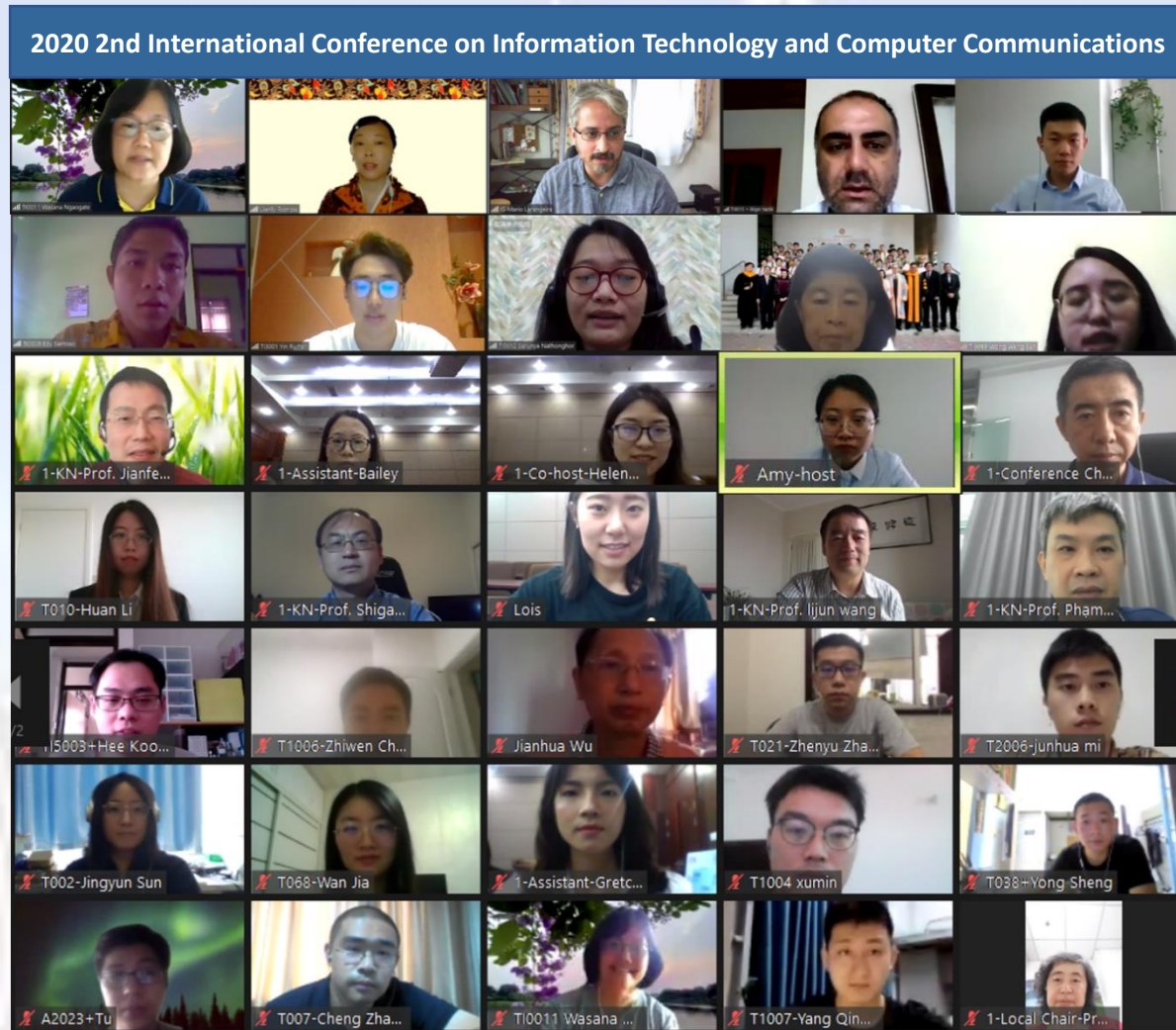
Greetings from ASIP conference group!

On behalf of the organizing committees, we would like to thank you for your support and the favors you have done to ASIP 2020. ASIP 2020 was held successfully during August 14-16, 2020.

Due to the COVID-19 pandemic, the safety of the participants remains the top priority. After careful consideration, in light of the global health emergency and the travel restrictions, ASIP 2020 was special arranged into online conference, so that delegates can participate in the video conference under a safe, productive and well-attended atmosphere. I believe that even at the online conference, everyone has gain something and had a good time.

During the conference, Prof. Jianfei Cai from Monash University, Australia, Prof. Lijun Wang from North China University of Technology, China, Prof. Pham The Bao from Sai Gon University, Vietnam and Prof. Jixin Ma from University of Greenwich, UK have attended the conference as keynote speakers. Dr. Mario Larangeira from Tokyo Institute of Technology/IOHK, Japan and Dr. Lianly Rompis from Universitas Katolik De La Salle Manado, Indonesia have attended the conference as invited speakers. In addition, many researchers, engineers, academicians as well as industrial professionals from all over the world have presented their research results and development activities. Thank all for the support and coming.

# CONFERENCE GROUP PHOTO



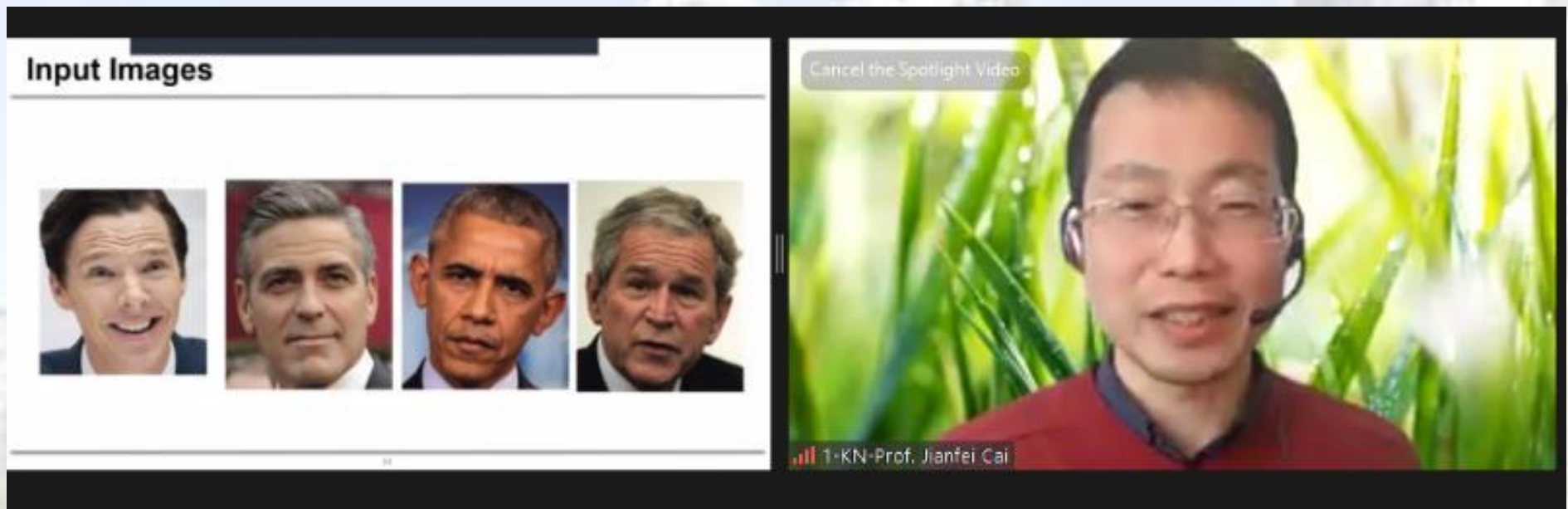
# KEYNOTE SPEECHES

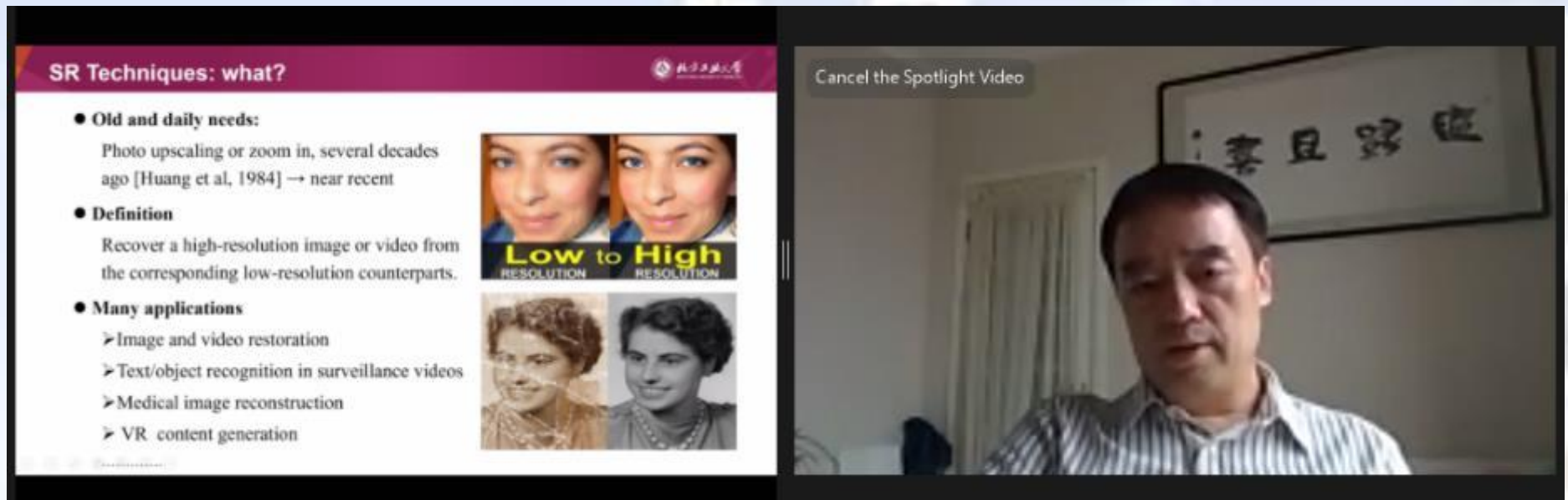
## *Keynote Speech I*

*Title: Deep Learning Based 3D Human Analysis with Limited Labels*

*Prof. Jianfei Cai*

*Monash University, Australia*



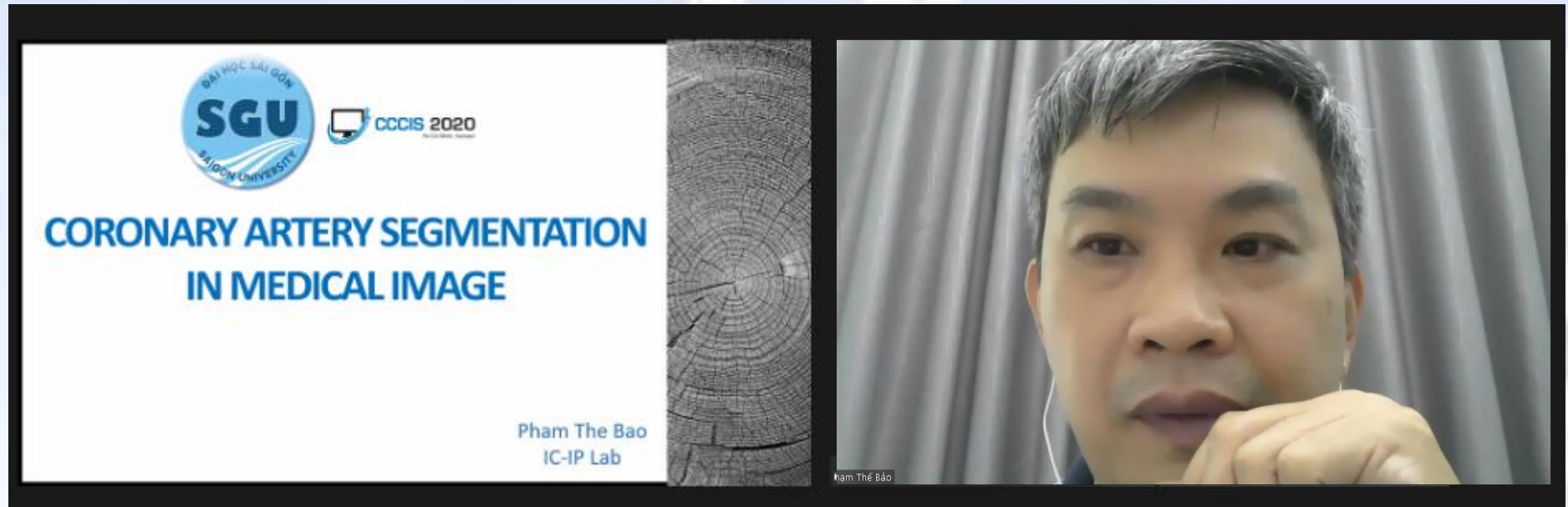
*Keynote Speech II**Title: Ai Super Resolution Techniques and Its Applications**Prof. Lijun Wang**North China University of Technology, China*

The image shows a video conference interface. On the left, a presentation slide titled "SR Techniques: what?" is displayed. The slide includes the following content:

- SR Techniques: what?** (with a logo of North China University of Technology)
- **Old and daily needs:**
  - Photo upscaling or zoom in, several decades ago [Huang et al, 1984] → near recent
- **Definition**
  - Recover a high-resolution image or video from the corresponding low-resolution counterparts.
- **Many applications**
  - Image and video restoration
  - Text/object recognition in surveillance videos
  - Medical image reconstruction
  - VR content generation

The slide also features two pairs of images. The top pair shows a woman's face, with the left image labeled "Low Resolution" and the right image labeled "High Resolution". The bottom pair shows a woman's face, with the left image being a low-resolution, pixelated version and the right image being a high-resolution, restored version.

On the right side of the video conference, a man (Prof. Lijun Wang) is visible. A "Cancel the Spotlight Video" button is overlaid on the top left of his video feed. Behind him, a framed calligraphy scroll is visible on the wall.

*Keynote Speech III**Title: Coronary Artery Segmentation in Medical Image**Prof. Pham The Bao**Sai Gon University, Vietnam*

The image shows a presentation slide on the left and a video of the speaker on the right. The slide features the SGU logo (Bai Huc Sai Gon, Saigon University) and the CCCIS 2020 logo. The main title is "CORONARY ARTERY SEGMENTATION IN MEDICAL IMAGE" in blue capital letters. Below the title, it says "Pham The Bao" and "IC-IP Lab". The video shows a man with short dark hair, wearing a blue shirt and white earbuds, resting his chin on his hand. A small name tag "Pham The Bao" is visible at the bottom left of the video frame.

Keynote Speech IV


Title: About the Dividing Instant Problem (DIP)

Prof. Jixin Ma

University of Greenwich, UK

### 2.2 Theories and Models

Relating	point $t_1$ to point $t_2$	Interval $t_1$ to Interval $t_2$	point $t_1$ to Interval $t_2$	Interval $t_1$ to point $t_2$
Equal	$t_1 \bullet$ $t_2 \bullet$	$t_1 \rightleftarrows$ $t_2 \rightleftarrows$	Not Applicable	Not Applicable
Before	$t_1 \bullet$ $t_2 \bullet$	$t_1 \rightarrow$ $t_2 \rightarrow$	$t_1 \bullet$ $t_2 \rightarrow$	$t_1 \rightarrow$ $t_2 \bullet$
After	$t_1 \bullet$ $t_2 \bullet$	$t_1 \leftarrow$ $t_2 \leftarrow$	$t_1 \leftarrow$ $t_2 \bullet$	$t_1 \bullet$ $t_2 \leftarrow$
Meets	Not Applicable	$t_1 \rightarrow$ $t_2 \rightarrow$	$t_1 \bullet$ $t_2 \rightarrow$	$t_1 \rightarrow$ $t_2 \bullet$
Met-by	Not Applicable	$t_1 \leftarrow$ $t_2 \leftarrow$	$t_1 \leftarrow$ $t_2 \bullet$	$t_1 \bullet$ $t_2 \leftarrow$
Overlaps	Not Applicable	$t_1 \rightarrow$ $t_2 \rightarrow$	Not Applicable	Not Applicable
Overlapped-by	Not Applicable	$t_1 \leftarrow$ $t_2 \leftarrow$	Not Applicable	Not Applicable
Starts	Not Applicable	$t_1 \rightarrow$ $t_2 \rightarrow$	$t_1 \bullet$ $t_2 \rightarrow$	Not Applicable
Started-by	Not Applicable	$t_1 \leftarrow$ $t_2 \leftarrow$	$t_1 \leftarrow$ $t_2 \bullet$	Not Applicable
During	Not Applicable	$t_1 \rightarrow$ $t_2 \rightarrow$	$t_1 \bullet$ $t_2 \rightarrow$	Not Applicable
Contains	Not Applicable	$t_1 \leftarrow$ $t_2 \leftarrow$	Not Applicable	$t_1 \rightarrow$ $t_2 \bullet$
Finishes	Not Applicable	$t_1 \rightarrow$ $t_2 \rightarrow$	$t_1 \rightarrow$ $t_2 \bullet$	Not Applicable
Finished-by	Not Applicable	$t_1 \leftarrow$ $t_2 \leftarrow$	Not Applicable	$t_1 \leftarrow$ $t_2 \bullet$



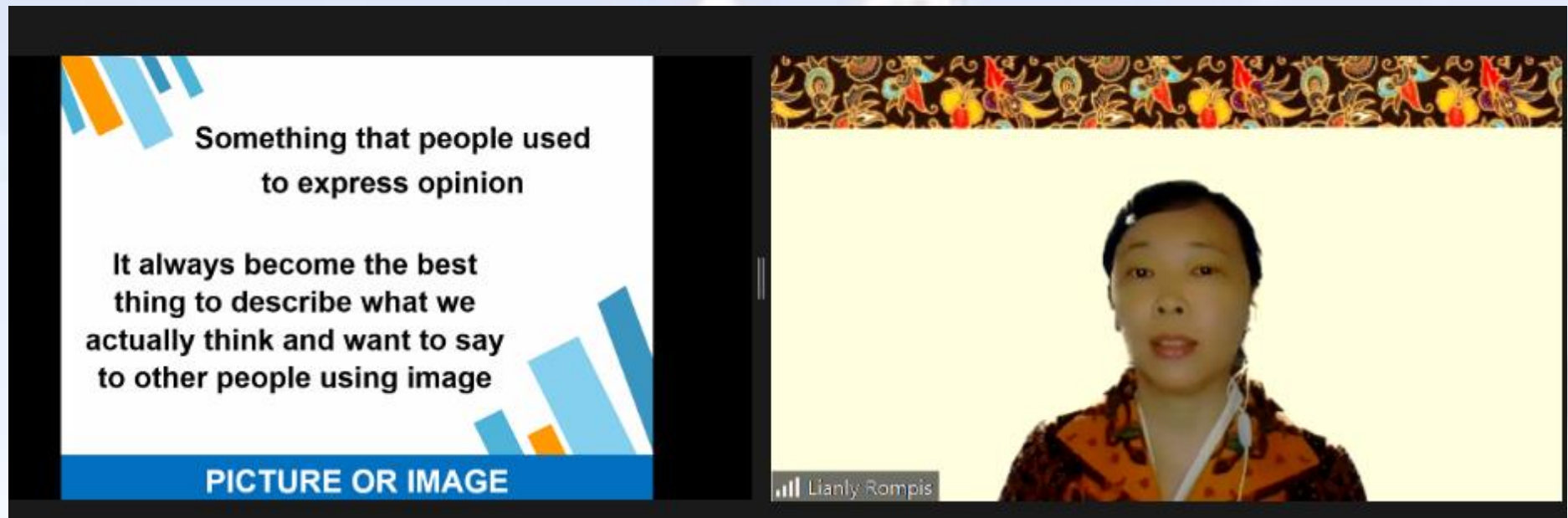
1-KN-Prof. Jixin Ma

*Invited Speech I*

*Title: Explore the Informative Images: From 2D to Augmented Reality and Future Works*

*Dr. Lianly Rompis*

*Universitas Katolik De La Salle Manado, Indonesia*



**Something that people used  
to express opinion**

**It always become the best  
thing to describe what we  
actually think and want to say  
to other people using image**

**PICTURE OR IMAGE**

Lianly Rompis

*Invited Speech II*

*Title: The classical Mental Poker Research in the time of the Blockchain*

*Dr. Mario Larangeira*

*Tokyo Institute of Technology/IOHK, Japan*






# BEST PRESENTATIONS

*Title: Partially Reversible Gray Image Data Hiding based on Adjacent Pixel Difference*

*Ruihan Yin*

*Glasgow College, University of Electronic Science and Technology, China*

*Shenzhen Research Institute, Wuhan University, China*



**Reversible Data Hiding(RDH)**

RDH

- Spatial domain
  - Method 1: Lossless Data Compression
    - Weak robustness.
    - Cannot be recovered completely.
  - Method 2: Difference Expansion
    - Large capacity.
    - Overflow.
  - Method 3: Histogram Modification
    - Large capacity.
    - High quality.
- Transform domain
- Encrypted domain

T13001 Yin Ruihan

ASIP 2021 will continue at Guangzhou, China next year. We hope the coronavirus situation will become better soon, and everyone can have a good health. Thank you so much for your support and understanding.

We really look forward to seeing you face to face next year!

Best regards,

ASIP Conference Group

August, 2020

