Summary Report

International Workshop on Affective Interaction between Humans and Machines in Multicultural Society (IWAM2022)

Japan Advanced Institute of Science and Technology (JAIST),

Onsite and Online (via WebEx)

Prarinya Siritanawan (Last edit: 8 April 2022)

Date and Time

- March 30, 2022
- 11:00-16:00 Japan Time (UTC+09:00)
- 9:00-14:00 Vietnam & Thailand Time (UTC+07:00)

Place

Online:

- WebEx link:
  https://jaist.webex.com/jaist/j.php?MTID=mb2de61f212e0fd2d597b7c07ec7c5da7
- Meeting number: 2518 950 3130
- Password: VRbJBXs5x58

Onsite:

- Collaboration room 7, I-56, School of Information Science, Japan Advanced Institute of Science and Technology (JAIST) (Limited number of participants due to COVID-19's measurment)

Participants

- 189 persons (Processed from WebEx's Usage Summary Report)
  - Japan Advanced Institute of Science and Technology (JAIST), Japan (31 persons)
  - Kanazawa University, Japan (1 persons)
  - Ho Chi Min City University of Education (HCMUE), Vietnam (61 persons)
  - Mahidol university, Thailand (14 persons)
  - Osaka University, Japan (2 persons)
  - Komatsu University, Japan (1 persons)
  - Asian Institute of Technology (AIT), Thailand (1 persons)
  - Unknown affiliation (Thai 12 persons, Vietnamese 60 persons, Unidentified nationals 6 persons)

Publicity

Before Event: Event Announcement through:

- Official homepage of event:
  http://www.jaist.ac.jp/event/iwam/2022/index.html
- JAIST's News & Event
  https://www.jaist.ac.jp/english/whatsnew/events/2022/03/23-1.html
- Mailing list in JAIST (To all faculty and students)
- Facebook page of Image Processing/Computer Vision Lab (More than 1000 followers)
  https://www.facebook.com/jaistimgprocessing/posts/2385873958229975

After Event:

- Facebook Page of Faculty of Engineering, Mahidol University
  https://www.facebook.com/egmahidol/posts/10160306208679365
- HCMUE website
  https://hcmue.edu.vn/vi/tin-tuc-su-kien/su-kien/1778-h-i-th-o-qu-c-t-v-i-ch-d-s-tuong-tac-c-m-xuc-gi-a-con-ngu-i-va-may-moc-trong-th-i-d-i-xa-h-i-da-van-hoa-iwam-2022

Workshop Organizing members

- Prarinya Siritanawan, JAIST, Japan
- Haruyuki Kojima, Kanazawa University, Japan
- Kazunori Kotani, JAIST, Japan
- Shinobu Hasegawa, JAIST, Japan
- Teeradaj Racharak, JAIST, Japan
- Natthawut Kertkeidkachorn, JAIST, Japan
- Yuntao Wang, JAIST, Japan
- Hung Viet Nguyen, HCMUE, Vietnam
- Konlakorn Wongpatikaseree, Mahidol University, Thailand
- Karin Sumongkayothin, Mahidol University, Thailand

Workshop Detail and Content

- Check the Abstract book for the list of presentation, abstract, and biography of speakers:
  http://www.jaist.ac.jp/event/iwam/2022/Downloads/Abstract-Book_IWAM-2022_v3.pdf

If the above link is not available, please contact: prarinya@jaist.ac.jp

Snapshot of the event
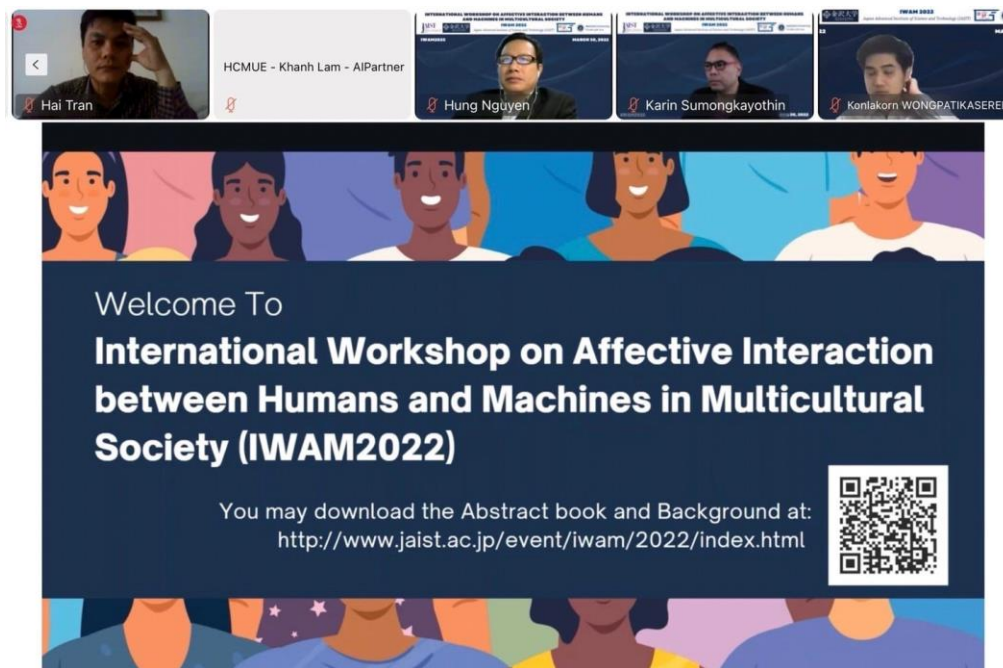
Online Participants waiting for the beginning of event in WebEx

Onsite Participants at the Collaboration room 7, I-56, School of Information Science, JAIST

Opening Speech from Prof. Hiroyuki Iida, Vice President of Japan Advanced Institute of Science and Technology (JAIST), Japan
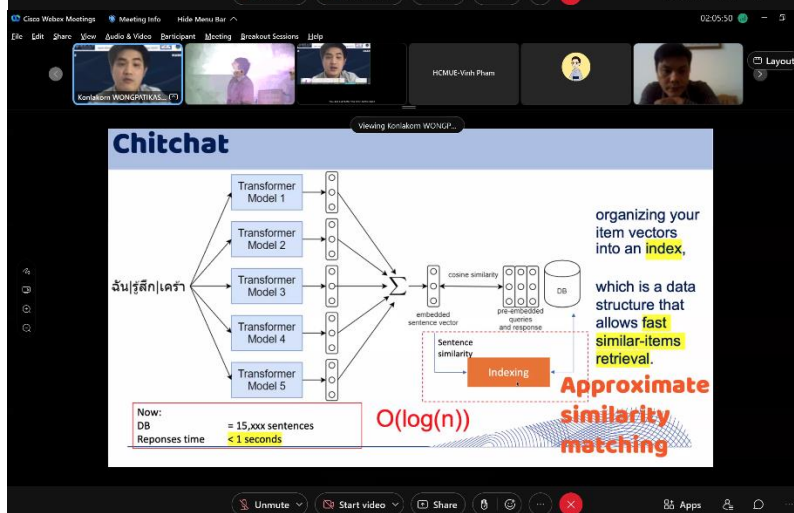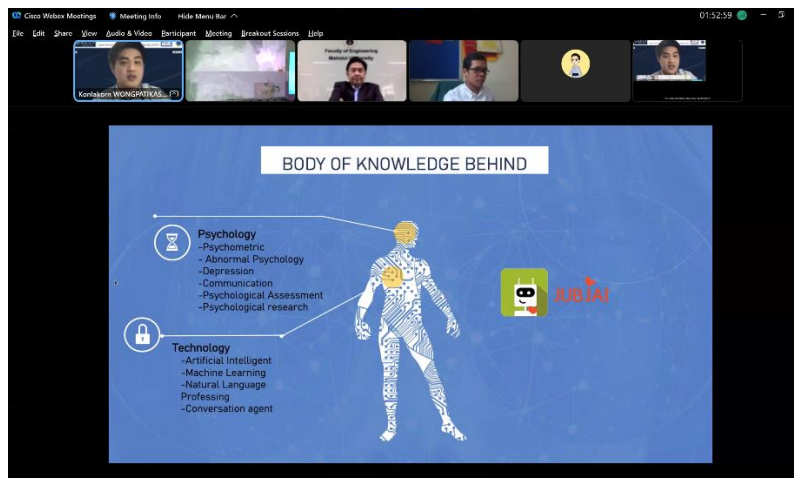

Opening Speech from Dr. Bui Tran Quynh Ngoc, Vice President of Ho Chi Minh City University of Education

Opening Speech from Assoc. Prof Dr. Jackrit Suthakorn, Dean of Faculty Engineering, Mahidol University, Thailand

Briefing session of workshop and introduction of joint international collaboration, Prarinya Siritanawan, JAIST, Japan

Invited Talk #1, Thailand Mental Health Technology and Innovation
Center, Konlakorn Wongpatikaseree, Mahidol University, Thailand

Invited Talk #2, Applying deep learning for Hscode classification, Hai Tran, Ho Chi Minh City University of Education, Vietnam
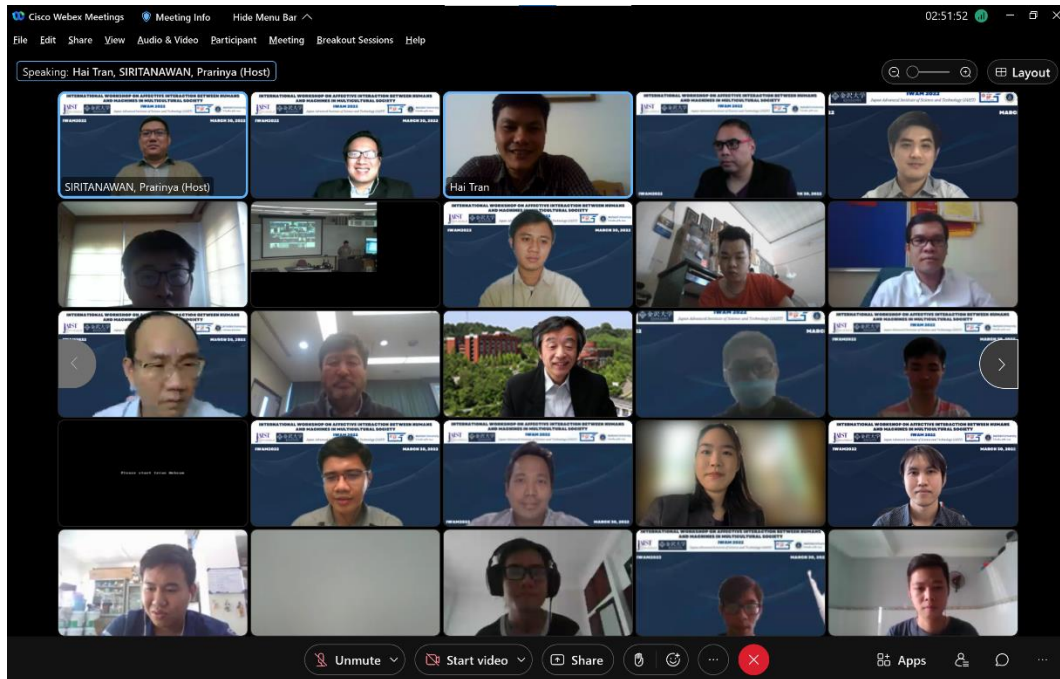
Group Photo of morning session

Student Session #1: Compound Facial Expressions Generation with
Arithmetical Features Space, Win Shwe Sin Khine, JAIST, Japan

Student Session #2: A Learner Engagement Estimation and Support System Using PC Built-in Camera, Xianwen Zheng, JAIST, Japan

Student Session #3: Robust feature for Facial Expression Recognition (FER) systems, Sukrit Jaidee, Thailand Mental Health Technology and Innovation Center (MH), Mahidol University, Thailand
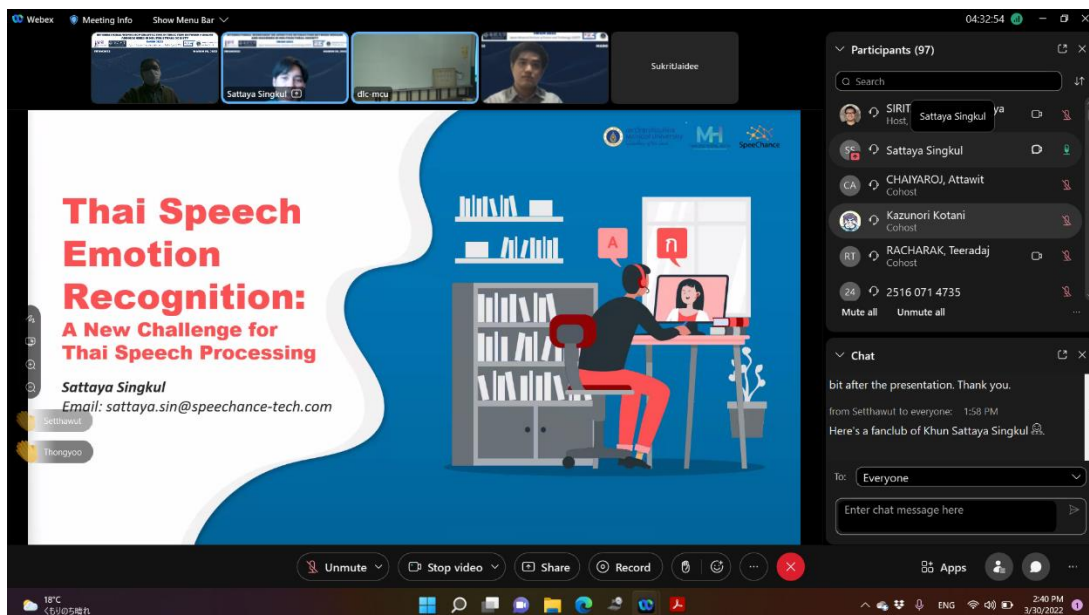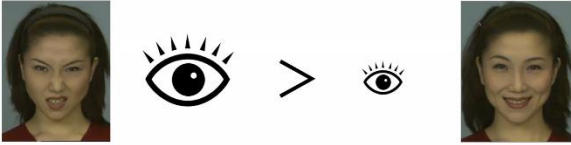
Student Session #4: Thai Speech Emotion Recognition: A New Challenge for Thai Speech Processing, Sattaya Singkul, Thailand Mental Health Technology and Innovation Center (MH), Mahidol University, Thailand
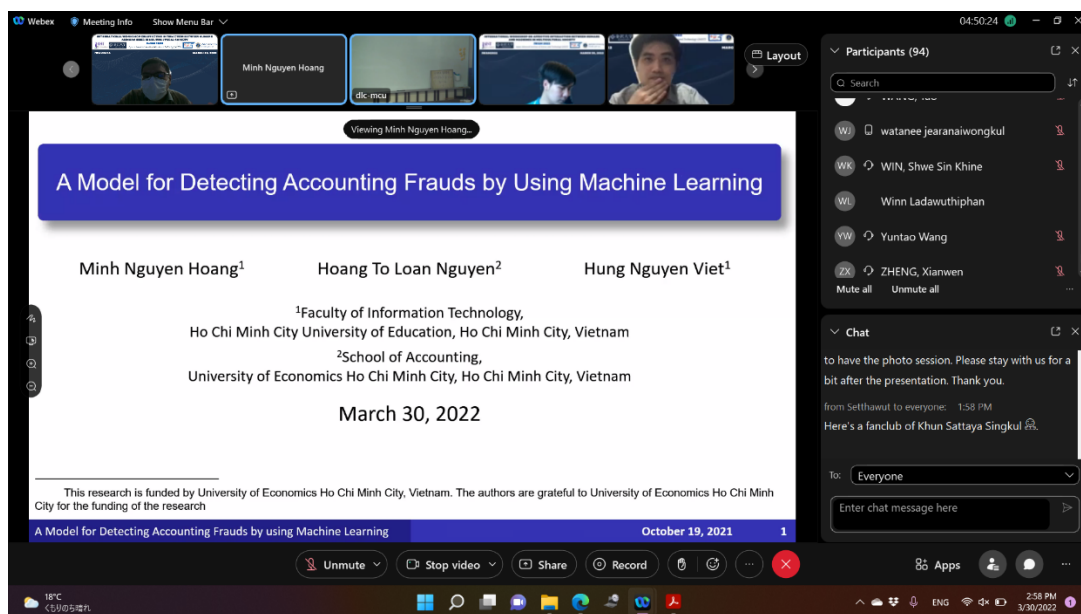
Student Session #5: A Model for Detecting Accounting Frauds by using Machine Learning, Minh Nguyen Hoang, Ho Chi Minh City University of Education, Vietnam

Invited Talk #3: Sensitivity of emotional faces and its relation to observer's trait, Haruyuki Kojima, Kanazawa University, Japan

Invited Talk #4: An Adaptive Engagement Support Robot Based on Behavior Update Model and Engagement Estimation, Shinobu Hasegawa, JAIST, Japan

Closing Remark by Dr. Nguyen Viet Hung, Dean of Faculty of Information Technologies, Ho Chi Minh City University of Education, Vietnam
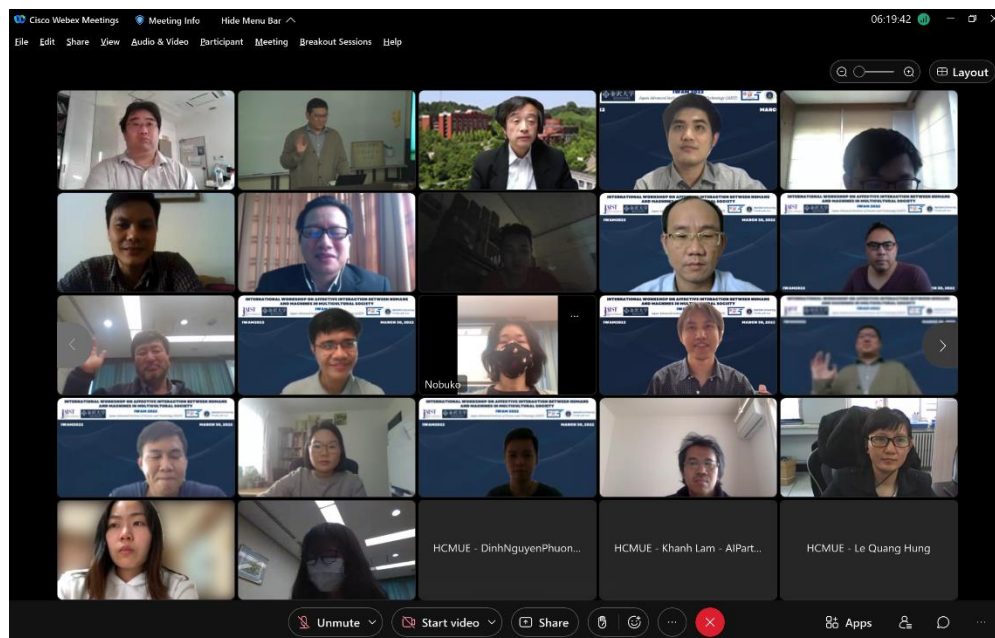
Group photo in the closing session

Closing Remark by Prof. Nguyen Viet Hung,

Dean of Faculty of Information Technologies, Ho Chi Minh City University of Education, Vietnam

On behalf of HCMUE and Organizer, I would like to express my deep thanks to Prof. Hiroyuki Iida, Prof. Jackrit Suthakorn, Prof ngoc Bui and Prof Vinh Pham for their welcome speed; thanks to speakers for their interesting talks, thanks to Prof Kotani and Prof Pop and his team for great effort to organize this workshop.

As you know, one of the biggest efforts of human being is trying to understand the human.

Understanding human emotion is one of steps to understand human. There is such tremendous research in many fields focused on this problem. However, there is no good answer or solution given. Understanding human emotion also play a key role to improve the human-robot interaction.

Besides that, following Darwin and Ekman, there are seven universal facial expressions of emotions. However, following some research of neuroscience, there is no common facial expression among different cultural. It is still big controversy.

To figure out the problem, to understand the emotion across different culture, to establish a unified

human-machine interaction framework to understand the emotional expressions of people from

different cultural backgrounds, the experts in ML, AI, CV, NLP, Acoustic Processing, educator, psychology and so on from JP, Thailand and Vietnam will gather, collect data, annotate data, analysis data and build the model and so one.

This workshop is first step of giant walk. I hope after workshop, the researchers from JAIST, KU, MU, HMCUE are going to do next step and obtain good results.

Once again, thanks so much for your attention.

Hung Viet Nguyen

Dean of Faculty of Information Technologies

Ho Chi Minh City University of Education, Vietnam