

IEEE Computer Society
Hyderabad Chapter IEEE
Hyderabad Section

Report on “Deep Learning- Based Video Analytics for Surveillance IoT Applications”

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Date: 6/08/2020

Time: 4:00PM-5:30PM

Speaker: Assoc. Prof. Dr. Supavadee Aramvith

Department of Electrical Engineering

Chulalongkorn University, Thailand

Candidate, 2021-2022 IEEE Region 10 Director-Elect

Member, IEEE Educational Activities Board

Communications Chair, IEEE Humanitarian Activities Committee

IEEE Consumer Electronics Society Board of Governors

Description:

As surveillance cameras have been widely installed worldwide, although the main purpose of those cameras is for monitoring, but the most important task is to be able to analyze video contents and extract useful information. Deep learning-based computer vision techniques utilizing multi-layer neural network is drastically improving the performance of video analytics to a certain extent. Several on-going researches on deep learning-based video analytics such as image super resolution, real-time multiple face recognition system, video anomaly detection and several implementations of embedded video analytic system on FPGA and Single Board Computers will be discussed. Some possible scenarios of utilizing video analytics, IoT for Industries will also be mentioned.

In this talk, madam presented and discussed the current trends and researches in video analytics. As surveillance cameras have been widely installed worldwide, although the main purpose of those cameras is for monitoring, but the most important task is to be able to analyze video contents and extract useful information. Deep learning-based computer vision techniques utilizing multi-layer neural network is drastically improving the performance of video analytics to a certain extent. Several on-going researches on deep learning-based video analytics such as image super resolution, real-time multiple face recognition system, video anomaly detection and several implementations of embedded video analytic system on FPGA and Single Board Computers will be discussed. Some possible scenarios of utilizing video analytics, IoT for Industries will also be mentioned.

[SOME MORE SNAPS FROM THE WEBINAR](#)



My Roles & Experiences CHULA ENGINEERING

- Ph.D. in EE (U. of Washington, USA, 2001) under The Royal Thai Government Scholarship
- Associate Professor in EE specialised in video technology (> 19 years at Chulalongkorn University)
- Awarded Outstanding Engineering Faculty Staff (Sakintana) Award 2017 from Dean of Chula Engineering and Honorary Award from Chulalongkorn University (2015) and IEEE VCA Leadership Award (2018)
- Advisor of 9 Ph.D., 27 Master's graduates, 32 Bachelor's graduates and currently advise 2 PostDoc, 6 Ph.D., 2 Master's and 4 Bachelor's students
- Over 135 conference/journal publications and 4 book chapters
- IEEE AUN/SEED-Net Secretariat Assistant Executive Director (2007-2009) / AUN/SEED-Net EE Field Coordinator
- CU Focal Point to UN ITU / ITU-D Expert on ICT4SDG
- Technical Advisor of Commissioner, Committee Chair, Project Leader, NBTC/MICT/VDES (2007-Present)
- Professional Volunteer/Leadership experiences (IEEE, IEICE, APSIPA)
- Visiting Professor (Osaka U. (2005, 2008), Hokkaido U (2015), KDDI R&D Labs (2017), University of Washington (2017)



5



 Supavadee Aramvith (host)

Speaking: Supavadee Aramvith





IEEE Volunteer Experiences (selected) – 25 years membership



Supavadee Aramvith (host)



4:00 ...

IEEE CS Hyderabad Webinar, 6 A., g., st 2020

Chulalongkorn University
จุฬาลงกรณ์มหาวิทยาลัย
Pillar of the Kingdom

Deep Learning-Based Video Analytics for Surveillance IoT Applications

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Supavadee Aramvith (host)
Speaking: Mallellu Sai Prashanth, Supava...

