PROF YUNG-HSIANG LU DISTINGUISHED VISITOR SEMINAR (VIRTUAL) - WORLD-WIDE CAMERA NETWORKS

Computer Society Distinguished Visitor Professor Yung-Hsiang Lu

Abstract: More than 80% consumer Internet traffic is for videos and most of them are recorded videos. Meanwhile, many organizations (such as national parks, vacation resorts, departments of transportation) provide real-time visual data (images or videos). These videos allow Internet users to observe events remotely. This speech explains how to discover real-time visual data on the Internet. The discovery process uses a crawler to reach many web pages. The information on these web pages are analyzed to identify candidates of real-time data. The data is downloaded multiple times over an extended time period; changes are detected to determine whether it is likely to provide real-time data. The data can be used during an emergency. For example, viewers may check whether a street is flooded and cannot pass. It is also possible using the data to observe long-term trends, such as how people react to movement restrictions during the COVID pandemic.

Bio: Yung-Hsiang Lu is a professor of Electrical and Computer Engineering at Purdue University. He is a University Faculty Scholar of Purdue University. He is a fellow of the IEEE (Institute of Electrical and Electronics Engineers), distinguished visitor of the Computer Society, distinguished scientist and distinguished speaker of the ACM (Association for Computing Machinery). Dr. Lu is the inaugural director of Purdue's John Martinson Engineering Entrepreneurial Center (2020-2022). In 2019, he received Outstanding VIP-Based Entrepreneur Award from the VIP (Vertically Integrated Projects) Consortium. His research areas include computer vision, embedded systems, cloud and mobile computing. Dr. Lu has advised 400 undergraduate students in research projects and taught more than 5,000 students in classrooms. He has advised multiple student teams winning business plan competitions; two teams of students started technology companies and raised more than $1.5M.

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Date: **29 Mar 2024**
Time: **06:00 PM to 07:30 PM**
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Speakers

[Prof. Yung-hsiang Lu of School of Electrical and Computer Engineering of Purdue University](#)

Topic: World-Wide Camera Networks

Agenda

Welcome Remark - Dr. Ping-Tsai Chung

Presentation - Prof. Yung-Hsiang Lu, School of Electrical and Computer Engineering of Purdue University

Q/A.

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