Robert Stewart Distinguished Lecture

Dr. Takeo Kanade

Monday, September 12, 2016 at 3:30pm

0101 Design

http://www.cs.iastate.edu/fun-research-computer-vision-robots-sports-face-medicine

Fun Research in Computer Vision: from robots, sports, face to medicine

In this talk, I would like to touch upon highlights of various research and development that my vision group at Carnegie Mellon has done in the area of computer vision. A few candidates for topics that I will cover include vision-based autonomous robots, eye vision, biological live cell tracking, face image analysis, and smart headlight. While presenting their technical contents, I will try to sprinkle my anecdotal experiences, strategies, and philosophy in research including my research motto, "Think like an amateur, do as an expert", which I hope the audience finds interesting and useful in order for them to make their research and development fun and productive.

Dr. Kanade has been elected to the National Academy of Engineering, and also to the American Academy of Arts and Sciences. The awards he received include Kyoto Prize, The Benjamin Franklin Institute Medal and Bower Prize, C&C Award, Okawa Award, ACM/AAAI Allen Newell Award, Joseph Engelberger Award, IEEE Robotics and Automation Society Pioneer Award, and ICCV Azriel Rosenfeld Lifetime Accomplishment Award.

Dr. Kanade is the U.A. and Helen Whitaker University Professor of Computer Science and Robotics at Carnegie Mellon University. He received his Doctoral degree in Electrical Engineering from Kyoto University, Japan, in 1974. After holding a faculty position in the Department of Information Science, Kyoto University, he joined Carnegie Mellon University in 1980. He was the Director of the Robotics Institute from 1992-2001, and a founding Director of Quality of Life Technology Research Center from 2006 to 2012. He founded the Digital Human Research Center in Tokyo and served as the founding director from 2001-2010. Dr. Kanade works in multiple areas of robotics: computer vision, multi-media, manipulators, autonomous mobile robots, medical robotics and sensors and has written more than 400 technical papers and reports in these areas, and holds more than 25 patents.

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