

Video Footage Helps Predict the Future



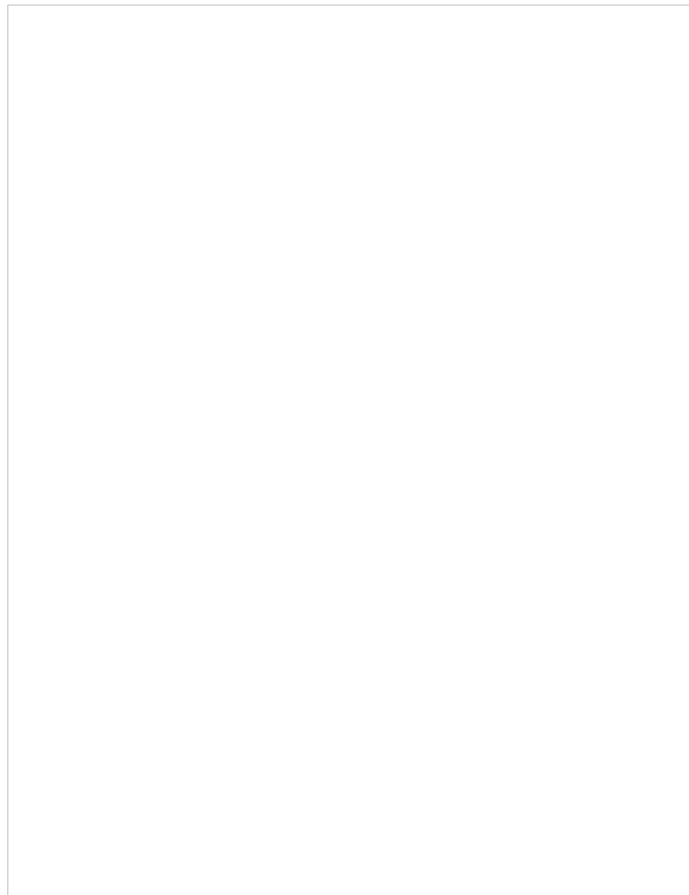
Yun Raymond Fu

Associate Professor, Department of Electrical and Computer Engineering

CURRENT RESEARCH


Machine learning meets security to protect the nation

There are about 30,000 domestic flights per day in the US on average; this means that security measures for detecting suspicious behavior are not only necessary but expensive. Imagine if computers were able to detect criminal activity before it happened more accurately than trained personnel. Research scientists are working to pair security, multimedia data, and machine learning to provide novel tools that can do just that. Dr. Yun Raymond Fu, of Northeastern University, is at the forefront of research focused on machine learning, computer vision, data mining, and social media analytics. Driven by the explosion of diverse multimedia from the Internet including personal or publicly available photos and videos, his team brings fundamental theory to synergetic media learning systems that collect data and is able to interact with precise analysis and possible suggestions.



Dr. Fu's expertise allows him and his collaborative team to make early predictions about events and activities given the social context and billions of images or data points. Thus, the team approaches visual problems by asking, "what is it?" but even more importantly, "what should we do?" Thus, his research helps to mitigate the uncertainties that are more challenging for human personnel and allow for applications to operate at their optimal performance levels. His research is making significant impacts on areas of national defense in that it provides a solid solution in developing situational awareness...

AFFILIATION

 Northeastern University

EDUCATION

- Ph.D., in Electrical and Computer Engineering, 2008 , University of Illinois at Urbana-Champaign
- M.S., in Statistics, 2007 , University of Illinois at Urbana-Champaign
- M.Eng., in Pattern Recognition and Intelligent Systems, 2004 , Xi'an Jiaotong University, China
- B.Eng., in Information Engineering, 2001 , Xi'an Jiaotong University, China

AWARDS

- ONR Young Investigator Award, Office of Naval Research, 2014
- ARO Young Investigator Award, Army Research Office, 2014
- INNS Young Investigator Award, International Neural Networks Society, 2014
- Google Faculty Research Award, Google Research, 2010
- China Government Award for Outstanding Self-financed Students Abroad, China Government, 2007

RESEARCH AREAS

Technology, Computational Sciences / Mathematics, Informational Sciences / Internet, Photonics / Imaging

FUNDING REQUEST

Your contributions will support the continued research of Dr. Yun Raymond Fu, of Northeastern University, as he invents artificial intelligence technologies that can read images and videos for either social or security driven activations. Donations will fund personnel, equipment, and travel support for Dr. Fu's team of passionate and driven students and postdocs. Join Dr. Fu in creating powerful technologies for the future!

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