Photo Forensics: There is more to a picture than meets the eye

(Invited Talk)

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Abstract

We find ourselves today in a “digital world” where most information is created, captured, transmitted, stored, and processed in digital form. Digital information permeates every aspect of our daily lives. Although representing information in digital form has many compelling technical and economic advantages, it has led to new issues and significant challenges when performing forensics analysis of digital evidence.

The last few years have seen much research in the young and emerging subjects of Image and Video Forensics. The topic is inherently multi-disciplinary involving computer science and engineering, signal processing, and criminal justice at the very least. This talk provides an overview of this emerging area and key developments and challenges that need to be addressed including privacy issues.

About Nasir Memon

Nasir Memon is a Professor in the computer science department at the Polytechnic Institute of New York University, New York. He is the director of the Information Systems and Internet Security (ISIS) lab at Polytechnic.

Prof. Memon got his BE in Chemical Engineering and MS in Math from BITS, Pilani, India, 1981. He got his MS in Computer Science (1989) and PhD in Computer Science (1992) from the University of Nebraska, Lincoln.

Prof. Memon’s research interests include Digital Forensics, Data Compression, Computer and Network Security and Multimedia Computing and Security. He has published more than 250 articles in journals and conference proceedings and holds more than a dozen patents in image compression and security. He has won the NSF CAREER award and the Jacobs Excellence in Education award. His research has been featured in NBC nightly news, NY Times, MIT Review, Wired.Com, New Science Magazine, etc.

He is currently the Editor-in-Chief of the IEEE Transactions on Information Security and Forensics and on the editorial board of the IEEE Security and Privacy Magazine. He is a Fellow of the IEEE and an IEEE Signal Processing Society Distinguished Lecturer for the years 2011 and 2012. Prof. Memon is the co-founder of Digital Assembly and Vivic Networks, two early stage start-ups in NYU-Poly’s incubator.