

IEEE ISI 2008 Keynote Talk (II)

Cyber Crime and Challenges for Crime Investigation in the Information Era

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Abstract

The rapid development of computer technology and the integration of computer and communication technology have made significant changes to human information activities. Firstly, the efficient and effective power of information processing has made computer the most important tool for data processing. As a result, more and more data are processed and stored in computer systems. Secondly, the transcend nature of the Internet has made it one of the major channels for human communication. Consequently, our society is in a state of transformation toward a “virtual society,” where people’s daily activities, such as shopping, getting services, and especially sharing information, can be accomplished without face-to-face contact with others. Nowadays, computers and computer networks are ubiquitous and used in every facet of modern society.

Although information technology has enabled global businesses to flourish, it also becomes one of the major enablers for unscrupulous individuals to commit crime and escape apprehensions by law enforcement agencies. It is often stated that cyber crime investigation & forensics is the largest challenge for law enforcement agencies in this 21st century. This presentation will address the issues current faced by law enforcement agencies and attempt to look ahead in order to discern the research directions for cyber crime investigation and computer forensics.

Biography: Dr. Henry C. Lee is one of the world’s foremost forensic scientists. Dr. Lee’s work has made him a landmark in modern-day forensic sciences. He has been a prominent player in many of the most challenging cases of the last 40 years. He has also worked with law enforcement agencies in helping to solve more than 6,000 cases. In recent years, his travels have taken him to England, Bosnia, China, Brunei, and other locations around the world.

Dr. Lee’s testimony figured prominently in the O. J. Simpson trial, and in convictions of the “Woodchipper” murderer as well as hundreds of other murder cases. He has assisted local and state police in their investigations of other famous crimes, such as the murder of Jon Benet Ramsey in Boulder, Colorado, the 1993 suicide of White House Counsel Vincent Foster, and the reinvestigation of the Kennedy assassination.

Dr. Lee is currently the Chief Emeritus for the Scientific Services and was the Commissioner of Public Safety for the State of Connecticut for over two years and has served as that state’s Chief Criminalist from 1979 to 2000. He was the driving force in establishing a modern State Police Forensic Science Laboratory in Connecticut.

In 1975, Dr. Lee joined the University of New Haven, where he created the school’s Forensic Sciences program. He has also taught as a professor at more than a dozen universities, law schools, and medical schools. Though challenged with the demands on his time, he still lectures throughout the country and world

to police, Universities and civic organizations. Dr. Lee has authored hundreds of articles in professional journals and has co-authored more than 25 textbooks, covering the areas, such as; DNA, Fingerprints, Trace Evidence, Crime Scene Investigation and Crime scene reconstruction.

Dr. Lee has been the recipient of numerous medals and awards, including the 1996 Medal of Justice from the Justice Foundation, and the 1998 Lifetime Achievement Award from the Science and Engineer Association. He has also been the recipient of the Distinguished Criminalist Award from the American Academy of Forensic Sciences; the J. Donero Award from the International Association of Identification, and in 1992 was elected a distinguished Fellow of the AAFS.

Dr. Henry Lee was born in China and grew up in Taiwan. He first worked for the Taipei Police Department, attaining the rank of Captain. With his wife, Margaret, Dr. Lee came to the United States in 1965, and he earned his B.S. in Forensic Science from John Jay College in 1972. He continued his studies in biochemistry at NYU where he earned his Masters Degree in 1974 and Ph.D. in 1975. He has also received special training from the FBI Academy, ATF, RCMP, and other organizations. He is a recipient of five honorary Doctorate Degrees from various Universities in recognition of his contributions to Law and Science. Dr. Lee has been married for thirty-nine years and has two adult children, a daughter, Sherry, and a son, Stanley.