



# Raymond Hsieh, Ph.D.

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## POSITION

Associate Professor in Department of Justice, Law and Society, California University of Pennsylvania

## EDUCATION

### *Ph.D.*

2004

State University of New York at Buffalo (SUNY, Buffalo)

Buffalo, New York

■ Major: Informatics: Information Communication Technology & Computer Mediated Communication

**Dissertation: Comparison across the reference frame: Rotation of Galileo spaces with inconsistency objects. An example of comparison of user's perception and online legal policy**

This dissertation examines the cognitive differences that users see between their own views of online privacy and security and the policies of e-retailers by multidimensional mathematical presentation.

### *Masters of Science Information Technology*

1996

Rochester Institute of Technology (RIT)

Rochester, New York

■ Major: Information Technology

**Project: Forensic Digital Imaging**

### *Bachelor of Science*

1988

Central Police University – Taiwan

Taoyan, Taiwan

■ Major: Forensic Science

## CERTIFICATION

- **Certificate:** Law Enforcement and Emergency Services Video Association International (LEVA: 40 Hours): Photography Comparison, Indianapolis, IN (Dec.,2009)
- **Certificate:** Forensics Law and Expert Testimony, Southpointe, PA (Sept.,2009)
- **Certificate:** Forensic Video Analysis (Ocean Systems: 32 hours): detective and ClearID Training, Burtonsville, MD (July,2009)
- **Certificate:** Law Enforcement and Emergency Services Video Association International (LEVA: 40 Hours): Intermediate Forensic Video Analysis & Law, Indianapolis, IN (May,2009)
- **Certificate,** Forensic Linguistic for Prosecutors and Detectives, Southpointe, PA, PA (April, 2009)
- **Certificate,** Illegal Gambling Machine Seminar, Pittsburgh, PA (Oct., 2008)
- **Certificate,** Video Gambling Devices, Southpointe, PA (Sept., 2008)
- **Certificate:** Law Enforcement and Emergency Services Video Association International (LEVA: 40 hours): Basic Forensic Video (Analog & Digital) Analysis & Law, Indianapolis, IN (Sept.,2008)
- **Written Test Certification:** Computer Forensic Examiner (CCE) & AccessData Computer Examiner (ACE) (2007)
- **Certificate,** Behavioral Crime Workshop, Southpointe, PA (Oct., 2007)
- **Certificate,** AssessData Advanced Windows Forensics, West Conshohocken, PA (Aug, 2006)
- **Certificate,** Regional Computer Forensic Group Annual Symposium, Fairfax, VA (July, 2006)

- **Certificate**, Dr. Henry Lee Crime Scene Investigation Workshop, Cyril H. Wecht Institute of Forensic Science, Pittsburgh, PA (July, 2006)
- **Certificate**, AssessData Intermediate Windows Forensics, Coraopolis, PA (May, 2006)
- **Certificate**, Blood Pattern Workshop, The Henry C. Lee, Institute of Forensic Science, Connecticut (1999)
- **Advanced Graduate Certificate** for Multimedia Design, Rochester Institute of Technology (1996)
- **Certificate**, the New York Institute of Forensic Audio and Video (1996)
- **Certificate**, Video and Audio Signal Processing workshop, Western Kentucky University (1996)

## BOOK

***Cognitive Mapping & Comparison- an Example of online legal Polices by VDM Publishing, Beau-Bassin Mauritius, Germany*** **May, 2009**  
**ISBN: 978-3-639-13448-3**

***Intelligence and Security Informatics by Springer Berlin Heidelberg, Germany*** **June, 2008**  
**ISBN-10: 3-540-69136-7**

## BOOK CHAPTER

***Forensic Technology, USA*** **(tentative) May, 2010**

## TEACHING AND PROFESSIONAL EXPERIENCE

***Associate Professor (Blackboard & eCollege certified instructor)*** **Aug, 2009 -Present**  
 Department of Law, Justice & Society  
 The Institute of Criminological & Forensic Sciences

California University of Pennsylvania California, Pennsylvania

***Assistant Professor (Blackboard & eCollege certified instructor)*** **Aug, 2005 –July, 2009**  
 Department of Law, Justice & Society  
 The Institute of Criminological & Forensic Sciences

California University of Pennsylvania California, Pennsylvania

- JUS102: American Policing
- JUS 105: Introduction of Forensics
- JUS 201: Criminal Investigation
- JUS 215: Victim and Justice System
- JUS 380: Crime Scene Imaging
- JUS 487: Computer Forensics
- Computer Forensics Workshop to Law Enforcement

***Invited Computer Journal Editorial Reviewer*** **September, 2007 -Present**

- The International Journal of Digital Crime and Forensics (IJDCF) (<http://www.igi-global.com/journals/details.asp?ID=7828&v=callForPapers> )

- The Journal of Communication and Computer (Print ISBN:1548-7709 [http://www.davidpublishing.com/down\\_Computer.php](http://www.davidpublishing.com/down_Computer.php) )
- The Journal of Information Science (<http://jis.sagepub.com/>)
- The Journal of Decision Support Systems
- The Journal of the international Association of Computer Investigative Specialists ( <http://www.cops.org/> )

#### **Conference Workshop Chair**

- 2009 IEEE international annual Conference on Intelligence and Security Informatics **June, 2009**  
(<http://www.isiconference.org/2009/> )
- 2008 IEEE international annual Conference on Intelligence and Security Informatics **June, 2008**  
( <http://www.cs.ucf.edu/PACCF2008/> )

#### **Book Editor**

- Intelligence Security Informatics 2008 by Springer Berlin Heidelberg, Germany **June, 2008**

#### **Planning Committee**

- **A National Symposium on the Collection, Analysis and Legal Applications of Digital Evidence**  
(TheCyril H. Wecht Institute Of Forensic Science and Law)  
(<http://www.duq.edu/email/forensics/digital/> ) **Pittsburgh, October, 2009**

#### **Technical Program Committee**

- **ICGEC2010** (International Conference on Genetic and Evolutionary Computing 2010)  
(<http://iiirc.hitsz.edu.cn/ICGEC2010/> ) **Shenzhen, China, December, 2010**
- **e-Forensics 2010** (International Conference on Forensic Applications and Techniques in Telecommunications, Information) ([www.e-forensics.eu](http://www.e-forensics.eu) ) **Shanghai, China, November, 2010**
- **IIH-MSP10** (International Conference on Intelligent Information Hiding and Multimedia Signal Processing) (<http://bit.kuas.edu.tw/~iihmisp10/> ) **Darmstadt, Germany, October, 2010**
- **F2GC-2010** (the Fourth International Workshop on Forensics for Future Generation Communication environments) (<http://www.ftrai.org/f2gc2010> ) **Cebu, Philippines, August, 2010**
- **PAISI 2010** (*Pacific Asia Workshop on Intelligence and Security Informatics*)  
(<http://www.business.hku.hk/paisi/>) **Hyderabad, India, June, 2010**
- **F2GC-09** (The 3rd International Workshop on Forensics for Future Generation Communication environment) (<http://www.ftrg.org/f2gc2009/> ) **Jeju, Korea, December, 2009**
- **IIH-MSP09** (International Conference on Intelligent Information Hiding and Multimedia Signal Processing) (<http://bit.kuas.edu.tw/~iihmisp09/> ) **Kyoto, Japan, September, 2009**
- **eForensics09** (International Conference on Forensic Applications and Techniques in Telecommunications, Information) (<http://www.e-forensics.eu/>) **Australia, January, 2009**
- **PAISI 2009**(*Pacific Asia Workshop on Intelligence and Security Informatics*) **Thailand, April, 2009**
- **2008 International Conference on Intelligent Information Hiding and Multimedia Signal Processing**  
**August, 2008**
- **F2GC08** (*International Workshop on Forensics for Future Generation Communication environments*)  
(<http://www.sersc.org/F2GC2007/> ) **China, June, 2008**

**Dr. Henry Lee Forensic Event Coordinator**

**April 3rd, 2008**

**Invited Presenter & Lecturer**

- 2009 IEEE international annual Conference on Intelligence and Security Informatics **June, 2009**  
*Topic: Identifying Google Talk Packets*
- Computer Forensics Training Workshop (through Forensics and Criminological Institute of California University of PA) for Law Enforcements **April, 2009**
- 2008 International Conference on Intelligent Information Hiding and Multimedia Signal Processing **August, 2008**  
*Topic: Challenges of Location Tracking Techniques in Wireless Forensics*
- 2008 IEEE international annual Conference on Intelligence and Security Informatics **June, 2008**  
*Topic: Wireless Forensic: A New Radio Frequency based Locating System*
- Special Seminar for Taiwan Criminal Investigation Bureau **June, 2008**  
*Topic: Digital Evidence and Computer Forensics*
- Special Seminar for Taiwan Kaohsiung Metropolitan Police Department **June, 2008**  
*Topic: Digital Evidence and Computer Forensics*
- The 57<sup>th</sup> Annual Conference of the Pennsylvania Sociological Society **October, 2007**  
*Topic: Concern with identify Theft and Building Trust in E-Commerce*
- First Annual Conference on Corporate and Homeland Security **September, 2007**  
*Topic: Computer Forensics*

**Book Reviewer**

- Computer Forensics: Cybercriminals, Laws and Evidence (Jones & Bartlett Publishers) **February 2010**
- The Internet Book, 2/e by Douglas Comer (Prentice Hall) **May, 2006**

**Adjunct Instructor / Teaching Assistant****January 2002-May, 2005**

School of Informatics, Department of Communication

State University of New York at Buffalo

Buffalo, New York

- COM125: Introduction to the Internet  
 Duties included exclusive responsibility for teaching the class, participating on a team working on the Internet project in the Informatics Research Center, maintaining website of the Department of Communication, and assisting faculty in developing and implementing online surveys and the website.
- COM225: Research Methods (teaching assistant)  
 Duties included assisting student research teams in the execution of a group research project and guidance in analyzing data.

**Interpreter****January 2002-Present**

Citizenship and Immigration Canada – Peace Bridge and Rainbow Bridge Niagara Falls and Fort Erie, Ontario

- Interpret between English and Chinese for the cases violating US or Canadian immigration law and criminal law. Most of these cases involve human smuggling.

**Multi-Media Manager****October 2001 – September 2002**

Hogin Com. Lit.

Taipei, Taiwan

- Managed and assisted in the software development of multi-media project of digital photo albums. Involved with programming, animation, and other duties including computer design, typesetting, and advertising layout. Also served as network administrator and electronic publishing consultant.

**Technology Consultant****October 2001 – September 2002**

Congo International

Taipei, Taiwan

- Responsible for establishing and maintaining a cross platform local area network. Other duties involved purchasing, training, and production.

**Forensic Expert / Police Officer (attained rank of Lieutenant Colonel)****July 1988-September 2001**

Criminal Investigation Bureau

Taipei, Taiwan

Police have a centralized organization in Taiwan, and the Criminal Investigation Bureau basically constitutes the national detective division. Accomplishments:

- Successfully adapted forensic photography into digital imaging domain
- Developed digital techniques for enhancement and restoration of fingerprints, as well as video images from surveillance and ATM cameras
- Expanded the use of digital techniques in the Criminal Investigation Bureau. Assigned and supervised work crews to hundreds of nationwide criminal cases in forensic identification in photos or video images. Roughly ten percent of the cases handled by me involved computer crime. In general, my cases involved crime scene investigations, detailed identification reports, and resulting in criminal prosecutions and convictions. My subordinates and I solved hundreds of cases involving kidnapping, robbery, homicide, and hit-and-run through the enhancement of surveillance video tapes
- Provided forensic digital imaging services to national police forces, courts and ministries
- Trained many police officers nationwide to update their knowledge of forensic photography and digital imaging, including such topics as the installation of surveillance cameras to meet requirements in law enforcement

**Faculty****July 1988-September 2001**

Central Police University

Taoyan, Taiwan

Taiwan Provincial Police College

Taipei, Taiwan

**SERVICES****Services****Aug, 2005 -Present**

- CJ Department Faculty Promotion Committee (fall, 2009)
- CJ Department Curriculum Committee (fall, 2009)
- CJ Department 5 Years Plan Committee (fall, 2009)
- Selection Committee for the Director of Information Technology (fall, 2009)
- Instructor of Computer Forensics Training Workshop (through Forensics and Criminological Institute of California University of PA) for Law Enforcements (April, 2009)
- CJ Outcome Assessment Annual Report Facilitator (spring, 2009)
- Selection Committee for the Supervisor of CAL Public Safety (spring, 2009)
- Chair** on Criminal Justice Generalist & Law Faculty Search Committee (fall, 2008)
- CJ Department Representatives for Library Material for Criminal Justice Field (fall, 2008)
- CAL U Summer College Participant (fall, 2008)
- FPDC Service and Service Learning Sub-committee (2005- 2009)
- FPDC Technology Sub-committee (2005- 2009)
- Chair** of Non-Tenured Faculty Review and Evaluation Committee (fall, 2007)
- Criminal Justice Generalist Faculty Search Committee (fall, 2007)
- Mammalogist Search Committee Search Committee (fall, 2007)

- Animal Physiologist Search Committee Search Committee (fall, 2007)
- CJ Department Faculty Promotion Committee (spring, 2007)
- CJ Department Tenure Committee (spring, 2007)
- Forensic Anthropologist Search Committee (spring, 2007)
- Criminal Justice Generalist Search Committee (spring, 2007)
- Information Literacy Librarian Search Committee (spring, 2007)
- Art Historian Search Committee (spring, 2007)
- Art Educator Search Committee (spring, 2007)
- Committee of Faculty Review and Evaluation (2005- spring, 2007).
- Outcome Assessment Committee (2005- spring, 2007)
- CJ students' advisor (2005-present)
- Instructor for the Sexual Harassment and Assault Orientation Training for incoming freshman (2005-present)
- Coordinator on Forensics Event of Science Olympiad (2007, 2008)
- Recruiter on six school districts (Bethel Park, Canon-McMillan, Chartiers Valley, Mt. Lebanon, Peters Twp, South Fayette, and South Park)of high school Engineering/Science/Aviation/Trade Career Fair ( 2007)
- Recruiter on six school districts (Bethel Park, Canon-McMillan, Chartiers Valley, Mt. Lebanon, Peters Twp, South Fayette, and South Park)of high school Engineering/Science/Aviation/Trade Career Fair ( 2006, 2008)
- Coordinator in CAL U Undergraduate Information Session at South Point.(Dec. 2005)

### EXTENSIVE SPECIALIZED TRAINING

- The 3<sup>rd</sup> Homeland Security Conference, California, PA (October, 2009)
- Forensics Law and Expert Testimony, Southpointe, PA (Sept.,2009)
- Workshop on Tenure, FPDC (Faculty Professional Development Center), Cal U (Sept.,2009)
- Forensic Video Analysis (Ocean Systems: 32 hours): detective and ClearID Training, Burtonsville, MD (July,2009)
- Law Enforcement and Emergency Services Video Association International (LEVA: 40 hours): Intermediate Forensic Video Analysis & Law, Indianapolis, IN (May,2009)
- Forensic Linguistic for Prosecutors and Detectives, Southpointe, PA, PA (April, 2009)
- Illegal Gambling Machine Seminar, Pittsburgh, PA (Oct., 2008)
- The 2<sup>nd</sup> Homeland Security Conference, California, PA (Oct., 2008)
- Video Gambling Devices Workshop, Southpointe, PA (Sept., 2008)
- Law Enforcement and Emergency Services Video Association International (LEVA: 40 hours): Basic Forensic Video (Analog & Digital) Analysis & Law (Sept.,2008)
- FPDC Pointers on writing a successful FPDC grant application (Oct. 2007)
- The Behavioral Crime Workshop (Oct. 2007)
- The Art and Science of Grant Writing Workshop (July, 2007)
- Computer Forensics Examiners (CCE) Boot Camp (May, 2007)
- FPDC workshop: Smart Room Technology Training (March, 2007)
- Certified by Blackboard Learning System - Certificate Series (Jan., 2007)
- Workshop on Using Blackboard Horizon Wimba: Live Classroom, FPDC (Faculty Professional Development Center), Cal U (Sep., 2006)
- Certified by E-College program for the development of web based courses (Dec., 2005)

- Workshop on The Learning Curve for Web-Based Teaching, FPDC (Faculty Professional Development Center), Cal U (Nov., 2005)
- Workshop on Advising for First Time Advisors, FPDC (Faculty Professional Development Center), Cal U (Oct, 2005)
- Workshop on eCompanion, FPDC (Faculty Professional Development Center), Cal U (Oct, 2005)
- Workshop on On-Line Learning Assessment- Part 1, FPDC (Faculty Professional Development Center), Cal U (Oct, 2005)
- Workshop on Putting Your Graduate Program On-Line, FPDC (Faculty Professional Development Center), Cal U (Oct, 2005)
- Workshop on PowerPoint and the Socratic Methods of Instruction, FPDC (Faculty Professional Development Center), Cal U (Sep, 2005)
- Workshop on Creating a New Course Proposal and/or Seeking Approval for General Education Menu Status, FPDC (Faculty Professional Development Center), Cal U (Sep, 2005)
- Workshop on Advanced Statistics and Methods, 3rd Summer Institute, University at Buffalo (2004)
- Conference for teaching assistants, University at Buffalo (2003)
- Conference for teaching assistants, University at Buffalo (2002)
- Internship (approximately three months), Forensic Laboratory, The State of Connecticut (1993)
- Internship (approximately a week), Forensic Laboratory, FBI, Washington, DC (1993)

### COURSES TAUGHT OR QUALIFIED TO TEACH

- American Policing
- Criminal Investigation
- Victim and Justice System
- Computer Forensics
- Introduction of Forensics
- Crime Scene Imaging
- Digital Evidence
- Research Methodology

### TEACHING QUALITY

- **2008-2009:** Students would recommend the instructor to other students- 96% Strongly Agree & 4% Agree Comments: "Dr. Hsieh is a great professor who is very knowledgeable. I have had him before and always enjoy his classes. He makes sure everyone understands things and is always willing to help"; "Dr. Hsieh is an amazing teacher. He pushes his students to do well"; "Dr. Hsieh was very helpful and I felt like I learned a lot from him. It was a fun yet serious atmosphere"; "The course was very informative and Dr. Hsieh presented the information in a very interesting manner"
- **2007-2008:** Students would recommend the instructor to other students- 99% Strongly Agree & 1% Agree Comments: "Dr. Hsieh really makes things interesting. Even though the material was boring, he made class fun"; "the material was presented in an interesting manner. Dr. Hsieh is one of the best professors on campus"; "Dr. Hsieh is the excellent professor. He makes class interesting and fun to go to. I always try and have him as a professor each semester" & "Dr. Hsieh is always willing to help, answer questions, or anything else you need him for"; "Dr. Hsieh presents all of his lectures in such an effective and efficient manner. One only does he break every unit down in specific parts, moving the content easy to read but also interesting." at the California University of Pennsylvania
- **2007:** To be nominated as a teaching award of the President Gala of California University of Pennsylvania.

- **2006-2007:** Students would recommend the instructor to other students- 92.86% Strongly Agree & 7.14% Agree Comments: “Dr. Hsieh is a great professor. He treats everyone with respect and truly cares about all of his students. If I could I would chose Dr. Hsieh for every class I ever took. He explains the subject matter very well, and is extremely fair to all of his students.” at the California University of Pennsylvania
- **2005-2006:** Students would recommend the instructor to other students- 90.91% Strongly Agree & 9.09% Agree Comments: “The Course gets the whole class involved. Dr. Hsieh is a good teacher”, “Dr. Hsieh is one of the best teacher I have ever had at CAL U. He is always here to help you. He makes class interesting and fun.” at the California University of Pennsylvania
- **Jan. 2002-May, 2005:** Rated as an excellent instructor by 120 students at the University at Buffalo (Mean 3.7). Comments: “Raymond was excellent in teaching the material we covered.”, “Very good. He took his time and made sure he answered questions to the best of his ability.”, “He took time to teach each lesson effectively, therefore helping me to better understand the lesson.”
- **July, 1988- Sept. 2001:** Rated as an outstanding instructor by 150 students at the Taiwan Central Police University
- **July, 1988- Sept. 2001:** Rated as an outstanding instructor by 400 students at the Taiwan Provincial Police College

## GRANTS & SCHOLARSHIPS

- Professional Development Travel Award, California University of Pennsylvania (Nov., 2009).
- Faculty Professional Development Small Grant, California University of Pennsylvania (May, 2009).
- Faculty Professional Development Travel Award, California University of Pennsylvania (Sept., 2008).
- University at Buffalo, NYS/GSEU Professional Development Award (2003)
- Taiwan Governmental Fellowship (1996)

## CONFERENCE PRESENTATIONS & PUBLICATIONS

- Hsieh, R. (2009). Cognitive Mapping & Comparison- an Example of online legal Polices. Mauritius, Germany: VDM Publishing
- Hsieh, R. , Ho, J., E, Chen, W, & Ji, P. (2009, June.). *Identifying Google Talk Packet*. Paper Presented at 2009 IEEE international annual Conference on Intelligence and Security Informatics, Dallas, Taxes, USA.
- Hsieh, R. et al. (Eds.).(2008). *Intelligence and Security Informatics*. Berlin, Germany: Springer.
- Hsieh, R. , Velasco, E, Chen, W, & Ji, P. (2008, August.). *Challenges of Location Tracking Techniques in Wireless Forensics*. Paper Presented at 2008 International Conference on Intelligent Information Hiding and Multimedia Signal Processing, Harbin, China.
- Hsieh, R. , Velasco, E, Chen, W, & Ji, P. (2008, June.). *Wireless Forensic: A New Radio Frequency based Locating System*. Paper Presented at 2008 IEEE international annual Conference on Intelligence and Security Informatics, Taipei, Taiwan.
- Hsieh, R. & Schweiker, W. (2007). *Concern with identify Theft and Building Trust in E-Commerce*. Presented in The 57th Annual Conference of the Pennsylvania Sociological Society, California, Pennsylvania.
- Hsieh, R. (2007). *Computer Forensics*. Presented in First Annual Conference on Corporate and Homeland Security, California, Pennsylvania.
- Hsieh, R., Woelfel, J., Hwang, J., Hao, C., Cheong, P. H., Woelfel, J.K. & Rosen, D. (2006, June.). *Methodological Advancements for the Analysis and Representation of Communication Networks*. Paper Presented at 56th Annual Conference of the International Communication Association, Dresden, Germany

- Hsieh, R., Woelfel, J., Hwang, J., Hao, C., Cheong, P. H., Woelfel, J.K. & Rosen, D. (2005, Feb.). *WölfpakTM: A Neural Network for Multilingual Text Analysis*. Paper Presented at the 25th annual meetings of the International Society for Network Analysis, Los Angeles, CA.
- Hsieh, R., & Tutzauer, C. (2004, May). *Online Privacy and Security : Distinguishing Between Trust and Distrust in Organizational Contexts*. Paper presented at 54th Annual Conference of the International Communication Association. New Orleans, Louisiana.
- Hsieh, R., Tutzauer, C. & Tutzauer, F. (2004, May). *Online Privacy and Security : The Discrepancy Between Online Policies and Consumer Perceptions*. Paper presented at 54th Annual Conference of the International Communication Association. New Orleans, Louisiana.
- Hsieh, R. (2004, January). *Reading the Fine print: Is the Public Taking Online Privacy and Security for Granted*. 25th Annual World Congress on the Management of eBusiness, Hamilton, ON, Canada.
- Hsieh, R. (2003, December). *How Secure Is Your E-Survey? An Issue of Public Perceptions*. Paper presented at 2003 National Communication Association Convention. Miami, Florida.
- Hsieh, R. & Tutzauer, C. (2003, May). *The Influence of Privacy and Security on Respondents' Trust and Participation in E-surveys*. Paper presented at 53<sup>rd</sup> Annual Conference of the International Communication Association. San Diego, California.
- Hsieh, R. (2003, January). *Do Online Users' Perceived Privacy and Security Influence Trust in E-survey Participation?* Paper presented at the meeting of the 24<sup>th</sup> Annual McMaster World Congress, Hamilton, ON.
- Hsieh, R. (2002, December). *Privacy, Security and Trust*. Paper presented at TKU 2002 International Communication Convention, Taipei, Taiwan.
- Hsieh, R. (2000, April, May). *Part 1: -Introduction of Image Restoration & Part 2: Looking into the digital Imaging Technology applied on CCTV surveillance*, Automation & Security Magazine, Vol. 36
- Hsieh, R. (2000, April). *How to choose a digital camera which is suitable for you*. Police Torch , Vol. 525
- Hsieh, R. (2000, March). *The image restoration in forensic science* , Taiwan Journal of Forensic Science, Vol. 49
- Hsieh, R. (1999, December). *From Surveillance tape to focus the application of digital image processing*, Police Torch , Vol. 525
- Hsieh, R. (1998, September). *The Kernel of Digital Cameras -CCD Charged Couple Device*, Taiwan Journal of Forensic Science, Vol. 46
- Hsieh, R. (1998, September). *The technology of digital darkroom made a strong impact to police force*, Police Torch , Vol. 506
- Hsieh, R. (1998, July). *The Analysis of Blood Pattern*, Police Torch , Vol. 504
- Hsieh, R. (1998, May). *From arson case to discuss surveillance video tape image enhancement*, Police Torch , Vol. 502
- Hsieh, R. (1997, November). *The unprecedented challenge to social order of smuggling and selling fire arms via Internet*, Police Torch, Vol. 496
- Hsieh, R. (1997, September). *The introduction of Taiwan Provincial Criminal Investigation Corps 's web site*, Police Torch, Vol. 494
- Hsieh, R. (1997, August). *Digital Image Processing and Internet Web Site Design*, Taiwan Provincial Police Administration of Taiwan Provincial Government
- Hsieh, R. (1996, December). *The Application of Digital Image Processing in law enforcement—The Internship in NOVA conference in Orillia Ont. Canada*, Police Torch, Vol. 485
- Hsieh, R. (1996, September). *The Application of Digital Image Processing in law enforcement—The Internship in FBI Forensic Lab*, Police Torch, Vol. 482
- Hsieh, R. (1996, July). *What does the Internet can do for the police*, Police Torch, Vol. 480

- Hsieh, R. (1996, May). *The Application of Digital Image Processing in law enforcement—The Internship in The New York Institute of Forensic Audio and Video*, Police Torch, Vol. 478
- Hsieh, R. (1996, March). *The Application of Digital Image Processing in law enforcement—The Internship in National Chicago Forensic Lab*, Police Torch, Vol. 476
- Hsieh, R. (1994, October). *The Application of Kodak Photo CD*, Taiwan Journal of Forensic Science, Vol. 39
- Hsieh, R. (1994, September). *The Application of Digital Cameras*, Taiwan Journal of Forensic Science, Vol. 38
- Hsieh, R. (1990, March). *Mug Shot computerized database system*, Taiwan Journal of Forensic Science, Vol. 29

## SKILLS

- Substantial skill in computer forensics: search, preservation, identification, extraction, analysis & presentation of digital evidence
- Excellent knowledge in forensic video (analog & digital) analysis
- Substantial skill in cognitive analysis and comparison by Multidimensional Scaling, and Perceptual Mapping Algorithms: the use of enhanced metric multidimensional scaling for the examination of the perceptions of groups of people
- Excellent knowledge of quantitative research and multivariate statistical analysis: Linear Regression Analysis, Factor Analysis, Cluster Analysis, Computer Based Content Analysis (CATPAC), ANOVA, T-Test
- Excellent skill in crime scene investigation, case management, physical evidence, computer forensics, forensic photography and digital imaging
- Strong skill in the use of multimedia for instructional presentation

## OTHER PRESENTATIONS AND PARTICIPATION

- CAL U Academic Excellent Days: “Do you have what it takes to be a part of a CSI Team” Presentation (April, 2009)
- CAL U Science Olympiad: Forensic Event (March, 2009)
- Pittsburgh Six School Districts (Bethel Park, Canon-McMillan, Chartiers Valley, Mt. Lebanon, Peters Twp, South Fayette, and South Park)of high school Engineering /Science /Aviation/Trade Career Fair (November, 2008)
- Keynote speaker on the topic of “Computer Forensics & Forensic Video Identification” in Taiwan Criminal Investigation Bureau (CIB)([www.cib.gov.tw](http://www.cib.gov.tw) ), (Taiwan CIB is a counterpart of the FBI in the US) and Kaohsiung Metropolitan Police Department (<http://www.kmph.gov.tw/english/Default.aspx> ) (June, 2008)
- Second Annual Conference on Corporate and Homeland Security, California, PA (Sept., 2008)
- CAL Academic Excellent Days: “CAL U CSI” Presentation (April, 2008)
- CAL Science Olympiad: Forensic Event (March, 2008)
- Pittsburgh Six School Districts (Bethel Park, Canon-McMillan, Chartiers Valley, Mt. Lebanon, Peters Twp, South Fayette, and South Park)of high school Engineering /Science /Aviation/Trade Career Fair (November, 2007)
- CAL Academic Excellent Days: “Crime Scene Investigation and Forensics” Presentation (April, 2007)
- CAL Science Olympiad: Forensic Event (March, 2007)

- Pittsburgh Six School Districts (Bethel Park, Canon-McMillan, Chartiers Valley, Mt. Lebanon, Peters Twp, South Fayette, and South Park) of high school Engineering /Science /Aviation/Trade Career Fair (November, 2006)
- Keynote speaker on the topic of “Digital Image Processing in Surveillance Video Field,” International Security 2000 Conference in Taiwan (2000)
- Judge of International Sec 2000 exhibition for surveillance and security products (2000)

## PROJECTS

- Crime Scene Photography & Digital Watermark (2007-2008)
- Forensics Digital Imaging Authentication & Metadata (2006-2007)
- Communication network analysis with University of New Hampshire. (2003-2004)
- Informatics Research Center web development with SUNY, Buffalo (2003)
- Cognitive mapping development with SUNY, Buffalo (2003)

## COMMUNITY SERVICE FOR NON PROFIT ORGANIZATION

- Board member of Pittsburgh Chinese Academy (2007-2008)
- Web site development and technological consultant for Organization of Chinese Americans (OCA) Pittsburgh Chapter <http://ocapghpa.org/index.html> (2006- 2008)
- Web site development and technological consultant for Tzu Chi Non-Profit Foundation- Pittsburgh Chapter (<http://lab2.us.tzuchi.org/pittsburgh/home.nsf/home/index> ) (2007-Present)
- Web site development for Survivors House of Hope, Fort Erie, Ontario, Canada (2004)
- Web site development for Galileo: A Cognitive Analysis Tool (2003)
- Web site development for YMCA, Fort Erie, Ontario, Canada (2002)

## AFFILIATIONS

- LEVA (Law Enforcement & Emergency Services Video Association)
- HTCIA (International High Technology Crime Investigation Association )
- IAI (International Association for Identification)
- CIS (Canadian Identification Society)

## REFERENCES

- Available upon request