

# DELIVERABLE D4.3 – Taiwan Conference Report



## RISE PROJECT

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## **FP7 RISE Project Taiwan Conference**

Rising Pan-European and International Awareness of Biometrics and Security Ethics (RISE), highly relate to the current research: privacy and identification technologies; ethical, legal, social and technological issues associated with biometrics and security technology.

These issues are highly interdisciplinary and as the project rightly points out, RISE recognizes the importance of ongoing dialog to raise global attention and form collaborative effort to respond to these issues.

NCCU in Taiwan first joined RISE in March 1<sup>st</sup>, 2010. The first milestone for the NCCU team is to hold a RISE related conference in Taiwan, starting the dialog among stake holders from multidisciplinary expert and officials. Since in Taiwan, and many Asian countries too, scholars are usually the decision makers for the government, either as a head of a government body, or as a dependable consultant for policy making, the invitees of the Taiwan conference should therefore not measured on the titles of the invitees only.

The RISE Taiwan conference can be considered a success. It pulled together for the first time a compressive team of experts which will be essential for the future development of RISE or other biometric related issues and solutions. The discussion also focused on the future development of the technologies, including, for instance, cloud computing. The delegate from Trend Micro shared not only the way the company responded to global virus threats; he also confirmed the development of a new subsidiary of Trend Micro dedicated to the cloud computing area. Massive concentration of personal information, including possibly biometrics, to the cloud will be a new round of RISE concern. The contacts established through the RISE Taiwan conference, certainly has strategic importance for the future development.

What follows is a detailed report of the conference breaking down from the participants and themes of each panel.

# The categories of our networking with all the participants

## 1. Technology

All of the specialists master in technical areas of Biometrics, Communication, Digital Data Privacy, Cyber Security, Biotechnology and Computer Science. Their remarks focused on the latest technology application in all areas.

### SCHOLARS

**Shang-Ren Kwan ( 關尚仁 )**

*Associate Research Fellow, College of Communication, National Chengchi University, Taipei, Taiwan*

Session Chair/Discussant

**Yuh-Jong Hu ( 胡毓忠 )**

*Professor, Dept. of Computer Science, National Chengchi University, Taipei, Taiwan*

Topic: Privacy Preserving Data Sharing Policy for National Security Enforcement

**Da-Wei Wang ( 王大為 )**

*Research fellow and Deputy Director, Institute of Information Science, Academia Sinica, Taipei, Taiwan*

Topic: How to Share Data While Preserving Personal Privacy

**Ming-Li Wang ( 王明禮 )**

*Assistant Professor, Graduate Institute of Industrial Economics, National Central University, Taoyuan, Taiwan*

Topic: Openness: An Alternative Approach to Cyber-security

**Chung-Young Chang ( 張中勇 )**

*Professor and Director, Graduate Institute of Industrial Economics, Dept. of Public Affairs, Fo Guang University, Yilan, Taiwan*

Topic: Cyber-security and national security: international practices

**Stan-Z. Li ( 李子青 )**

*Professor, Institute of Automation, Chinese Academy of Sciences,  
Beijing, China*

[Topic: Recent Advances in Face Biometrics and Security Surveillance](#)

**Der-Ming Liou ( 劉德明 )**

*Associate Professor, Institute of Bioinformatics, National YangMing  
University, Taipei, Taiwan*

[Topic: The Development of Telecare Service in Taiwan](#)

**James Chun-I Lee ( 李俊億 )**

*Professor, College of Medicine, Dept. of Forensic Medicine,  
National Taiwan University, Taipei, Taiwan*

[Topic: Forensic DNA Profiling in Taiwan](#)

### **INDUSTRIAL Participants**

**Mitchel Chang ( 張中明 )**

*Senior Vice President of Global Technical Support, Trend Micro  
Taiwan*

[Topic: Emerging Security Challenges & Defense Strategy](#)

### **GOVERNMENTAL Participants**

**Ying-Hsi Chiu ( 邱映曦 )**

*Senior Manager, Science and Technology Law Center, Institute for  
Information Industry III, Taipei, Taiwan*

[Topic: The Development of Personal Data Management in Asia](#)

**Rahul Jain**

*Senior Consultant, Security Practices, Data Security Council of  
India (DSCI), India*

[Topic: Perspectives on Privacy in a Connected World](#)

## 2. Law

All of the specialist's remarks are related to the law of technology application. They combine the research of law and pragmatic together. This seminar focused on the following inter-disciplinary programs: (1) medical science and law, (2) corporations and law, (3) engineering and law, (4) social science and law.

### 學者(SCHOLAR)

**Chi-Shing Chen ( 陳起行 )**

*Distinguished Professor, College of Law, National Chengchi University, Taipei, Taiwan*

[Topic: A Discursive Approach Toward New influenza governance](#)

**Ching-Yi Liu ( 劉靜怡 )**

*Associate Professor, Graduate Institute of National Development, National Taiwan University, Taipei, Taiwan*

[Topic: Privacy, Security, and Liberty: Converging or Diverging in Asia](#)

**Yu-Chi Wang ( 王郁琦 )**

*Associate Professor, School of Law, Dept. of Law, Shih-Hsin University, Taipei, Taiwan*

Session Chair/Discussant

**Wen-Tsong Chiou ( 邱文聰 )**

*Associate research fellow, Institutum Iurisprudentiae, Academia Sinica, Taipei, Taiwan*

[Topic: Inner or Outer? Two Approaches to the Protection of Personal Information](#)

**Chung-Min Tuan ( 段重民 )**

*Dean, College of Law, Shih-Hsin University, Taipei, Taiwan*

Session Chair/Discussant:

**Ting-Chi Liu ( 劉定基 )**

*Assistant Professor, College of Law, National Chengchi University, Taipei, Taiwan*

[Topic: Privacy Concerns in Forensic DNA Databases](#)

### **INDUSTRIAL Participants**

**Vincent Shih ( 施立成 )**

*Senior Attorney & Director, Microsoft Taiwan Corporation*

[Topic: Security of Cloud Computing](#)

### **GOVERNMENTAL Participants**

**Huei-Ying, Lucille, Hsu ( 許慧瑩 )**

*Legal researchers, Science and Technology Law Center, Institute for Information Industry III, Taipei, Taiwan*

[Topic: Cyber Security and the Real Name System in Asia](#)

## **3. ETHICS**

The specialists master in the ethics of the law, policy and technology, they study those issues from social and human right perspective, and analysis the social influence of new technology, law and policies. Their responsibility is to harmonize science and humanity, and give the government some policy suggestion.

### **SCHOLAR**

**Emilio Mordini**

*Founding Director, Centre for Science, Society and Citizenship, Rome*

Session Chair/Discussant:

### **INDUSTRIAL Participants**

**Ivory Yi-Hui Lin ( 林宜慧 )**

*Secretary General, Persons with HIV/AIDS Rights advocacy Association of Taiwan*

[Topic: Genuine Quarantine or Marked Discrimination?](#)

### **GOVERNMENTAL Participants**

**Nigel Cameron**

*President and CEO, Center for Policy on Emerging Technologies, USA*

Session Chair/Discussant:

Topics related to the RISE project

This Conference's highlight 4 topics related to the RISE project were **Privacy, Security and Liberty in the Asian, Cyber-Security and the Internet, Global Mobility and Public Health, Biometrics and Identification Technologies.**

### **1. Privacy, Security and Liberty in the Asian**

The topic was the main issue of this conference, discussed and remarked by the scholars and experts below:

**Ching-Yi Liu ( 劉靜怡 )**

[Privacy, Security, and Liberty: Converging or Diverging in Asia](#)

**Yu-Chung Hu ( 胡毓忠 )**

[Privacy Preserving Data Sharing Policy for National Security Enforcement](#)

**Da-Wei Wang ( 王大為 )**

[How to Share Data While Preserving Personal Privacy](#)

**Ming-Li Wang ( 王明禮 )**

[Openness: An Alternative Approach to Cyber-security](#)

**Ying-Hsi Chiu ( 邱映曦 )**

[The Development of Personal Data Management in Asia](#)

Our discussions were focus on Why Privacy? What Privacy? The differences in Privacy Cultures; for example: The Western Conception of Privacy v. s. The Eastern conception of Privacy; Are there any specific social, political and economic factors that we shall take into consideration while we are examining privacy controversies in Asian countries? Further, we exchanged the ideas of Privacy/security has been one of the most enduring social issues since the 1960s and countless commentaries have long called for reform in law and policy to shore up defenses against the erosion of privacy.

We also discussed the controversial issues came with biotechnology application in national security area.

National IDs have always had surveillance purposes. However, new IDs have enhanced

surveillance capacities compared to earlier systems. Increasingly, new National IDs incorporate the use of biometric technology devices and thus biometric information, which includes finger-print, DNA samples, iris scans, and hand contour are collected for identification and verification purposes.



Biometric information is very personal as the information about an individual's unique (physical) self. Biometric information is more sensitive than passwords or PINs as they cannot be reset once they have been released.

Biometric information is sensitive because they can reveal other sensitive information such as information about one's health, racial and ethnic origin and thus might become an unjustified basis for discrimination.

Biometric technologies can help identifying individuals without their knowledge or consent. In most cases, the use of biometric technology involves the compilation of personal information from which an individual is identifiable and therefore the collection and use of the information shall fall within the purview of privacy laws of most of the countries. The widespread of biometric technologies and their associative use with IDs systems results in significant impact on data privacy protection.



Most Asian governments are embracing National ID schemes and their associated use of smart-electronic biometric technologies with enthusiasm. Most national ID schemes are technically sophisticated systems designed to be beyond the comprehension of the public. There are usually no defined limitations on the expansion of the national ID systems in Asia countries currently. Some of the national ID systems are multi-functional , covering both public and private uses from the start , which makes the privacy issues more complicated.

It seems quite common that the risk and danger concerns arising from the national ID systems are always under-estimated by Asian governments. It seems most Asian governments have the same anti-terrorism attitude or have some efficiency purposes in mind in their policy-making process of adopting National ID systems associated with the use of biometric technologies. Are Asian cultural values such as “trust” shaping Asian government’s attitude toward privacy protection? If so, what is the solution for this public policy dilemma?



It is time to think about some preliminary thoughts with the use of biometrics and so indifferent/ignorant toward the adequacy of their legal and regulatory schemes.

## 2. Cyber-Security and the Internet

This topic was discussed and remarked by the scholars and experts below:

**Rahul Jain**

[Perspectives on Privacy in a Connected World](#)

**Vincent Shih ( 施立成 )**

[Security of Cloud Computing](#)

**Mitchel Chang ( 張中明 )**

[Emerging Security Challenges & Defense Strategy](#)

**Chung-Young Chang ( 張中勇 )**

[Cyber-security and national security: international practices](#)

The discussing issues included Security of cloud computing、 Cyber-security and national security Cyber-security and critical information infrastructure protection.

Cyber-security as a crucial issue in security agenda both at national and international levels. While critical infrastructure (CI) is often deemed as the backbone and lifeblood of modern society, Critical information infrastructure (CII) serves as the key to the success of most, if not all, of CIs with its function of interconnectedness. Cyber-security protection or CII protection is a common mission or shared duty for both public and private sectors.



Cyber-security is essential both at war and in peace. Threats to cyber-security come from state as well non-state actors, making society more vulnerable. A successful strategy to secure cyber-security requires risk management with interagency collaboration and public-private partnership.

The discussions of the conference on Taiwan’s cyber-security protection strategy were focused on three dimensions below :

- Request for a national strategy for securing cyber-security, with greater policy attention and political support?
- Demand for a more powerful mechanism or taskforce in charge of cyber-security?
- From focusing more on public sector and less on private sector to stressing on the necessity of the public-private partnership?



### 3. Global Mobility and Public Health

This topic was discussed and remarked by the scholars and experts below:

**Chi-Shing Chen ( 陳起行 )**

[A Discursive Approach Toward New influenza governance](#)

**Ivory Yi-Hui Lin ( 林宜慧 )**

[Genuine Quarantine or Marked Discrimination](#)

Dr. Chen took H1N1 and SARS prevention for examples, expressed how Expert knowledge acceptable to multidisciplinary community and the requirements of Effective Ways to Track High Risk Individuals.

The think points are below :

- ✓ Avoid Authority v. Subject
- ✓ Controlling v. Controlled
- ✓ Tracking v. Tracked
- ✓ Individualization Involved ( I v. me)
- ✓ Empowering through
- ✓ Community Building
- ✓ Linking and Integrating thru Discourse

Dr. Chen raised the conception of Governance web for promoting Dynamic opinions, dialogue, and arguments, as a way of Discursive Approach.

Besides, Ivory Yi-Hui Lin, the Secretary General of Persons with HIV/AIDS Rights advocacy Association of Taiwan (PRAA ) expressed the related regulations and laws with HIV/AIDS patients in Taiwan, she introduced the situation of the



points of view below :

- Current status for foreign nationals
- Hardships and survivals: How has the PRAA helped?
- Individual Assistance
- Institutional, law-related issues
- Reflections
- Intents of law vs. Outcomes of law enforcement



Miss. Lin raised a better way to prevent AIDS is to EDUCATE, xenophobic legal system only stigmatizes persons living with HIV, creating fears and resistance from our prevention education.

#### 4. Biometrics and Identification Technologies

This topic was discussed and remarked by the scholars and experts below:

**Stan-Z. Li ( 李子青 )**

[Recent Advances in Face Biometrics and Security Surveillance](#)

**Der-Ming Liou ( 劉德明 )**

[The Development of Telecare Service in Taiwan](#)

**Huei-Ying, Lucille, Hsu ( 許慧瑩 )**

[Cyber Security and the Real Name System in Asia](#)

**James Chun-I Lee ( 李俊億 )**

[Forensic DNA Profiling in Taiwan](#)

**Ting-Chi Liu ( 劉定基 )**

[Privacy Concerns in Forensic DNA Databases](#)

The conference introduced the technology application of Biometrics and Identification, and discussed the confrontation between Biometrics Identify and Privacy:

1. RFID tickets associated with identities
2. Active Target Tracking
3. Online Video Condensation



The main technical problem in generalizing :

1. Limited Training Data
2. When lighting changes
3. When pose changes
4. Daily changes and aging

Besides, For the development of Tele-care Service in Taiwan

Taiwan's government initiated and operated Taiwan's Tele-health Pilot Project (TTPP) from July 1, 2007 to Dec. 31, 2008

– Employing healthcare information technology to assist the elderly in the pursuit of better healthcare and improved quality of life. The project focused on three different models:

- The institutional-care model
- The community-care model
- The home-care model



For the application of DNA identification technology ,the conference discussed the issues below :

Collection remain and relative specimens

- DNA extraction
- DNA quantification
- DNA analysis
- Data screening
- Identical search
- Relationship search
- Rare allele search

The development of Biometrics and Identification technology brings people a convenient life, but it also cause large impaction on the human rights, freedom and privacy. Our Government collect people's biometric features for the reasons of national security and public health, those issues related with privacy and human rights worth we following.



## Concluding Remarks

The 2010 RISE Taiwan conference is the first major effort the NCCU team contributed to the RISE project, there are many lessons learned through the process; especially the dealing and communicating with the Taiwanese funding agency, National Science Council. We are confident to be able to hold a better conference next October in Beijing. RISE deals with a serious issue facing each and every country on earth. The rapid development of the new technologies also means RISE need to find out a innovative way to pull together experts from all over the globe and discipline to devise a sensible best practice to apply these new technologies in every facet of our daily life.

The NCCU team is proud of being part of RISE and we appreciate EU to initiate such effort which is badly needed today and here in Taiwan we can have almost no voice on the development of the RISE concern. Together, we are definitely able to make a difference. We know it is not something can be done in one year or two and we are committed to a long term RISE project.

## **Agenda and Participant List**



## Program Schedule

**21<sup>st</sup> October 2010, Thursday**

**13:00-14:30 Opening Session**

**13:00-13:30 Emilio Mordini**

*Founding Director, Centre for Science, Society and Citizenship, Rome*

**13:30-14:00 tbc**

**14:00-14:30 Chih-Jung Chou (周志榮)**

*Director, Dept. of Legal Affairs, Ministry of Justice, Taiwan*

*Recent Development in Taiwan's Personal Data Protection Laws*

**14:30-14:50 Refreshments**

**14:50-16:10 1<sup>ST</sup> Session: Privacy, Security and Liberty in the Asian I**

Session Chair/Discussant: Yu-Chi Wang (王郁琦)

*Associate Professor, School of Law, Dept. of Law, Shih-Hsin University,  
Taipei, Taiwan*

**14:50-15:10 Ching-Yi Liu (劉靜怡)**

*Associate Professor, Graduate Institute of National Development,  
National Taiwan University, Taipei, Taiwan*

*Privacy, Security, and Liberty: Converging or Diverging in Asia*

**15:10-15:30 Yu-Chung Hu (胡毓忠)**

*Professor, Dept. of Computer Science, National Chengchi University,  
Taipei, Taiwan*

*Privacy Preserving Data Sharing Policy for National Security  
Enforcement*

**15:30-15:50 Da-Wei Wang (王大為)**

*Research fellow and Deputy Director, Institute of Information Science,  
Academia Sinica, Taipei, Taiwan*

*How to Share Data While Preserving Personal Privacy*

**15:50-16:10 Discussion**



**16:10-17:30 2<sup>nd</sup> Session: Privacy, Security and Liberty in the Asian II**

Session Chair/Discussant: Nigel Cameron

*President and CEO, Center for Policy on Emerging Technologies,  
USA*

**16:10-16:30 Wen-Tsung Chiu (邱文聰)**

*Associate research fellow, Institutum Jurisprudentiae, Academia  
Sinica, Taipei, Taiwan*

tbc

**16:30-16:50 Ming-Li Wang (王明禮)**

*Assistant Professor, Graduate Institute of Industrial Economics,  
National Central University, Taoyuan, Taiwan*

*Openness: An Alternative Approach to Cyber-security*

**16:50-17:10 Ying-Hsi Chiu (邱映曦)**

*Senior Manager, Science and Technology Law Center, Institute for  
Information Industry III, Taipei, Taiwan*

*The Development of Personal Data Management in Asia*

**17:10-17:30 Discussion**

**17:30-19:00 Welcome Session**

Hosted by Prof. Kai-Lin Fuang, Dean of College of Law, NCCU



**22<sup>nd</sup> October 2010, Friday**

**09:00-10:40 3<sup>rd</sup> Session: Cyber-Security and the Internet**

Session Chair/Discussant: Ting-Chi Liu (劉定基)

*Assistant Professor, College of Law, National Chengchi University,  
Taipei, Taiwan*

**09:00-09:20 Rahul Jain**

*Senior Consultant, Security Practices, Data Security Council of  
India (DSCI), India*

Perspectives on Privacy in a Connected World

**09:20-09:40 Vincent Shih (施立成)**

*Senior Attorney & Director, Microsoft Taiwan Corporation*

Security of Cloud Computing

**09:40-10:00 Mitchel Chang (張中明)**

*Senior Vice President of Global Technical Support, Trend Micro  
Taiwan*

Emerging Security Challenges & Defense Strategy

**10:00-10:20 Chung-Young Chang (張中勇)**

*Professor and Director, Graduate Institute of Industrial Economics,  
Dept. of Public Affairs, Fo Guang University, Yilan, Taiwan*

Cyber-security and national security: international practices

**10:20-10:40 Discussion**

**10:40-11:10 Refreshments**

**11:10-12:30 4<sup>th</sup> Session: Global Mobility and Public Health**

Session Chair/Discussant: Chi-Shing Chen

*Distinguished Professor, College of Law, National Chengchi  
University, Taipei, Taiwan*

**11:10-11:30 Xiao-Mei Xai (翟曉梅)**

*Professor and Director, Graduate Program on Life Science and  
Ethics, Beijing Union Medical College, Beijing, China*

Governing of New Influenza in China

**11:30-11:50 Chi-Shing Chen (陳起行)**

*Distinguished Professor, College of Law, National Chengchi  
University, Taipei, Taiwan*

A Discursive Approach Toward New influenza governance



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**11:50-12:10 Ivory Yi-Hui Lin (林宜慧)**

*Secretary General, Persons with HIV/AIDS Rights advocacy  
Association of Taiwan*

*Genuine Quarantine or Marked Discrimination?*

**12:10-12:30 Discussion**

**12:30-13:50 Lunch**

**13:50-15:10 5<sup>th</sup> Session: Biometrics and Identification Technologies I**

Session Chair/Discussant: Ajay Kumar

*Assistant Professor, Dept. of Computing, The Hong Kong  
Polytechnic University, Hong Kong, China*

**13:50-14:10 Stan-Z. Li (李子青)**

*Professor, Institute of Automation, Chinese Academy of Sciences,  
Beijing, China*

*Recent Advances in Face Biometrics and Security Surveillance*

**14:10-14:30 Der-Ming Liou (劉德明)**

*Associate Professor, Institute of Bioinformatics, National YangMing  
University, Taipei, Taiwan*

*The Development of Telecare Service in Taiwan*

**14:30-14:50 Huei-Ying, Lucille, Hsu (許慧瑩)**

*Legal researchers, Science and Technology Law Center, Institute for  
Information Industry III, Taipei, Taiwan*

*Cyber Security and the Real Name System in Asia*

**14:50-15:10 Discussion**

**15:10-15:40 Refreshments**

**15:40-16:40 6<sup>th</sup> Session: Biometrics and Identification Technologies II**

Session Chair/Discussant: Chung-Min Tuan (段重民)

*Dean, College of Law, Shih-Hsin University, Taipei, Taiwan*

**15:40-16:00 James Chun-I Lee (李俊億)**

*Professor, College of Medicine, Dept. of Forensic Medicine,  
National Taiwan University, Taipei, Taiwan*

*Forensic DNA Profiling in Taiwan*



**16:00-16:20 Ting-Chi Liu (劉定基)**

*Assistant Professor, College of Law, National Chengchi University,  
Taipei, Taiwan*

Privacy Concerns in Forensic DNA Databases

**16:20-16:40 Discussion**

**16:40-17:10 Conclusion Session**

**Emilio Mordini**

*Founding Director, Centre for Science, Society and Citizenship,  
Rome*

**Chi-Shing Chen**

*Distinguished Professor, College of Law, National Chengchi  
University, Taipei, Taiwan*

**17:10-19:00 Farewell Session**

Hosted by Prof. Ming-Cheng Kuo, Dir. Institute of Law and  
Inter-discipline; Vice Dean, College of Law, NCCU

## Participant List and E-mail Adress

<b>Opening</b>		
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