

## Cyber Security French-Japanese Workshop Programme

Wednesday April 1<sup>st</sup>, 2015 at Keio University  
Thursday 2<sup>nd</sup> – Friday April 3<sup>rd</sup>, 2015 at the Embassy of France in Japan, Tokyo

Wednesday 1<sup>st</sup>

Venue: Keio University, Mita Campus, G-Sec Lab

08:30 *Opening of Registration*

09:00 – 09:15 Keynote address  
Jun Murai, Keio University  
Claude Kirchner, Inria  
Koji Nakao, NICT

Session 1 *Cryptography / Chairman : Jun Murai*

09:15 – 09:40 Cryptographic Key Management for IoT/M2M/CPS  
Kazukuni Kobara, AIST

09:40 – 10:05 Cryptography for Cyber Security: trends and challenges  
Phong Nguyen, Inria

10:05 – 10:30 A new progressive BKZ algorithm and practical hardness estimation for lattice problems  
Yoshinori Aono, NICT

10:30 – 10:55 Improved algorithms for the BinaryLWE Problem  
Pierre-Alain Fouque, University of Rennes

10:55 – 11:15 Coffee Break & Group Photo

Session 2 *Formal Methods & Verification, Connected Services Issues / Chairman : Mitsuhiro Okada*

11:15 – 11:40 Overview of JSPS Security Study Group and issues in Secure Connected Services for IoT  
Hideyuki Tokuda, Keio University

11:40 – 12:05 The Future evolution of Internet of Things & Cyber Security  
Henry Ng, THALES e-Security APAC

12:05 – 12:30 Recent trend of formal verification and activities of NICT  
Maki Yoshida, NICT

**12:30 – 12:55** Formal Proofs of Security against Arbitrary Attackers  
Gerget Bana, Inria

**Thursday 2<sup>nd</sup>**

**Venue: Embassy of France**

**08:30** Opening of Registration

**09:00 – 09:05** Welcome Address  
Jacques Maleval, Counselor for Science and Technology, Embassy of France in Japan

**09:05 – 09:20** Keynote speech  
Masao Sakauchi, President, NICT

**09:20 - 09:25** Keynote address  
Jiro Kokuryo, Vice-Président for International Collaboration, Keio University

**Session 3** *Cyber-security strategy / Chairman : Koji Nakao*

**09:25 – 09:50** Recent development in Cyber Security Policy in Japan  
Mari Ichikawa, NISC

**09:50 – 10:15** Overview Of Cyber Security research In France  
Claude Kirchner, Inria

**10:15 – 10:40** Cyber Security strategy and on-going Cyber Security projects in MIC, Japan  
Yuji Nakamura, Ministry of Internal Affairs and Communications

**10:40 – 10:55** Japan-France political dialogue on Cyber Security  
Sabine Sciortino, Political Counsellor, Embassy of France in Japan

**10:55– 11:15** Coffee Break & Group Photo

**Session 4** *Attacks and Mitigation / Chairman : Marc-Olivier Killijian*

**11:15 – 11:40** Internet Monitoring for Tracking Cybercriminal activities  
Jérôme François, Inria

**11:40 – 12:05** Latest Research Activities In NICT (Cyber-security lab)  
Daisuke Inoue, NICT

**12:05– 12:30** Low Level Code Analysis and experiments in Nancy's High Security Lab  
Jean-Yves Marion, University of Lorraine

**12:30 – 12:55** Efforts for DDoS Monitoring and Alerting  
Katsunari Yoshioka, YNU

**12:55 – 13:50** Lunch Break

**Session 5** *Software and System Security / Chairman : Claude Kirchner*

**13:50 – 14:15** Mitigating Side Channel Attacks using Polymorphic Code  
Jean-Louis Lanet, Inria

**14:15 – 14:40** Introduction of Remote Secure Software Update for Vehicle communications  
Masashi Eto, NICT

**14:40 – 15:05** High security lab and internet telescope  
Bertrand Wallrich, Inria

**15:05– 15:30** Android Security: Fine-Grained Risk Level Quantification Schemes based on APK Metadata  
Takeshi Takahashi, NICT

**15:30– 15:55** IRMA (Incident Response and Malware Analysis): Don't let suspicious files bring malware  
Jean-Baptiste Bedrune, Quarkslab

**15:55– 16:15** Break

**Session 6** *Urban networks / Cloud security/ IoT / Chairman : Phong Nguyen*

**16:15 – 16:40** Challenges In Embedded Security  
Assia Tria, CEA

**16:40 – 17:05** Cyber Threat for IoT environment  
Yuji Ukai, FFRI

**17:05 – 17:30** Private and Secure Outsourcing in the Cloud Era  
Carlos Aguilar, National Polytechnic Institute of Toulouse

**17:30– 17:55** Security Updatable Homomorphic Public Key Encryption  
Le Trieu Phong, NICT

**17:55– 18:20** Wireless connectivity in smart cities: Capillary network challenges  
Hervé Rivano, Inria

**18:30 – 20:30** Reception at the Residence of France

Friday 3<sup>rd</sup>

Venue: Embassy of France

08:30 Opening of Registration

Session 7 *Privacy Issues / Chairman : H el ene Kirchner*

09:00 – 09:25 Privacy challenges in the Information Society  
S ebastien Gambs, University of Rennes - Inria

09:25 – 09:50 Privacy Issues in Big Data and Privacy-preserving Data Mining  
Hiroaki Kikuchi, Meiji University

09:50 – 10:15 Privacy issues  
Catuscia Palamidessi, Inria

10:15 – 10:40 Research on Privacy Protection in Japan (tentative)  
Shinsaku Kiyomoto, KDDI labs

10:40 – 11:05 Geoprivacy, applications, Threats and Protection Mechanisms  
Marc-Olivier Killijan, CNRS

11:05 – 11:25 Coffee Break

Session 8 *Network security / Chairman : Hideki Sunahara*

11:25 – 11:50 Internet Citizen Social Rights: Privacy Leaks and Opinion Manipulation Detection  
Walid Dabbous, Inria

11:50 – 12:15 Recent security research at Keio University  
Kenji Kono, Keio University

12:15 – 12:40 Cyber Security crisis management  
Henry Ng, THALES e-Security APAC

12:40 – 13:05 Network Security Technologies implemented for ISP  
Shin Miyakawa, NTT-Communications

13:05 – 14:05 Lunch Break

Session 8 *Network security (follow-on) / Chairman : Walid Dabbous*

14:05 – 14:30 Unsupervised Network Anomaly Detection in The Dark  
Philippe Owezarski, CNRS

- 14:30 – 14:55** Observable Threat Actors Activity using BOS  
Masato Terada, Hitachi
- 14:55 – 15:20** Secure Key Renewal and Revocation for Wireless Sensor Networks  
Pascal Lafourcade, University of Auvergne
- 15:20 – 15:45** Introduction of Telecom-ISAC Japan activities  
Haruki Sato, Telecom-ISAC Japan
- 15:45 – 16:05** Supervising the supervisor: reversing proprietary SCADA technologies  
Jean-Baptiste Bedrune, Quarkslab

**16:05 – 16:25** Coffee Break

**Session 9**      *Developing French-Japanese collaboration*

**16:25 – 17:40** Round Table : identifying collaboration topics, tools and proposals for French-Japanese collaboration with the participation of  
Koji Nakao, Claude Kirchner, Jun Murai, Mitsuhiro Okada, Marc-Olivier Killijian, H el ene Kirchner

**17:40 – 18:00** *Closing remarks by Koji Nakao and Claude Kirchner*

*Scientific chairs: Koji Nakao and Claude Kirchner*

*Scientific advisors: Jun Murai (Keio University), Mitsuhiro Okada (Keio University), Marc-Olivier Killijian (CNRS), H el ene Kirchner (Inria)*