

2-7 Achievements List

(April 2006 – March 2011)

International Standard			
TITLE	DATE	AUTHOR	RECOMMENDATION
Comments on the draft Recommendation X.tcs-2: Real-time blocking list (RBL)-based framework for countering VoIP spam	2010/12/14	Jungsuk Song, Koji Nakao	ITU-T SG17
Comments on draft Recommendation X.ics	2010/7/8	Jungsuk Song, Koji Nakao	ITU-T SG17

Journal			
TITLE	DATE	AUTHOR	VENUE
O-means : An Optimized Clustering Method for Analyzing Spam Based Attacks	2011/1/4	Jungsuk Song, Daisuke Inoue, Masashi Eto, Hyung Chan Kim, Koji Nakao,	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (Special Section on Cryptography and Information Security)
A Comparative Study of Unsupervised Anomaly Detection Techniques Using HoneyPot Data	2010/9/1	Jungsuk Song, Hiroki Takakura, Yasuo Okabe, Daisuke Inoue, Masashi Eto, Koji Nakao	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
Construction and Operation of a Generic HoneyPot System to Detect Attack Activities on Various Applications	2010/7/1	Kenji Ohira, Jungsuk Song, Hiroki Takakura, Yasuo Okabe	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
Development and Evaluation of Traffic Behavior Analysis System for Understanding Network Condition	2010/7/1	Kazuya Suzuki, Shunsuke Baba, Hidehiko Wada, Koji Nakao, Hiroki Takakura, Yasuo Okabe	IEICE TRANSACTIONS ON COMMUNICATIONS
Fine-Grain Feature Extraction from Malware's Scan Behavior Based on Spectrum Analysis	2010/5/1	Masashi Eto, Kotaro Sonoda, Daisuke Inoue, Katsunari Yoshioka, Koji Nakao	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
Implementation and evaluation of a traffic data delivery system for executing realtime analysis by multiple methods	2009/10/1	Kazuya Suzuki, Shunsuke Baba, Hidehiko Wada, Koji Nakao, Hiroki Takakura, Yasuo Okabe	IEICE TRANSACTIONS ON COMMUNICATIONS
Expediting Experiments across Testbeds with AnyBed: A Testbed-Independent Topology Configuration System and Its Tool Set	2009/10/1	Mio Suzuki, Hiroaki Hazeyama, Daisuke Miyamoto, Shinsuke Miwa, Youki Kadobayashi	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
Development and evaluation of a traffic visualization system to support swift trouble shooting	2009/7/1	Kazuya Suzuki, Shunsuke Baba, Hidehiko Wada, Koji Nakao, Hiroki Takakura, Yasuo Okabe	IEICE TRANSACTIONS ON COMMUNICATIONS
Practical Correlation Analysis between Scan and Malware Profiles against Zero-Day Attacks based on Darknet Monitoring	2009/5/1	Koji Nakao, Daisuke Inoue, Masashi Eto, Katsunari Yoshioka	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
Automated Malware Analysis System and its Sandbox for Revealing Malware's Internal and External Activities	2009/5/1	Daisuke Inoue, Katsunari Yoshioka, Masashi Eto, Yuji Hoshizawa, Koji Nakao	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
Malware Sandbox Analysis for Secure Observation of Vulnerability Exploitation	2009/5/1	Katsunari Yoshioka, Daisuke Inoue, Masashi Eto, Yuji Hoshizawa, Hiroki Nogawa, Koji Nakao,	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS

TITLE	DATE	AUTHOR	VENUE
On the deployment of dynamic taint analysis for application communities	2009/3/1	Hyung Chan Kim, Angelos Keromytis	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS
UDP Large-payload Capability Detection for DNSSEC	2008/5/1	Kenji Rikitake, Koji Nakao, Shinji Shimojo, Hiroki Nogawa	IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS

International Conference			
TITLE	DATE	AUTHOR	VENUE
A Heuristic-based Feature Selection Method for Clustering Spam Emails	2010/11/26	Jungsuk Song, Masashi Eto, Hyung Chan Kim, Daisuke Inoue, Koji Nakao	The 3rd International Workshop on Data Mining for Cybersecurity
On the Applicability of a DBI-Based Generic Unpacking Implementation	2010/8/6	Hyung Chan Kim, Daisuke Inoue, Masashi Eto, Jungsuk Song, Koji Nakao	The 5th Joint Workshop on Information Security (JWIS 2010)
A Malware Classification Method Based on Threaded Function Call Traces	2010/8/6	Junji Nakazato, Jungsuk Song, Masashi Eto, Daisuke Inoue, Koji Nakao	The 5th Joint Workshop on Information Security (JWIS 2010)
Malware Sandbox Analysis with Automatic Collection of Server Responses using Dummy Client	2010/8/6	Takahiro Kasama, Katsunari Yoshioka, Tsutomu Matsumoto, Masaya Yamagata, Masashi Eto, Daisuke Inoue, Koji Nakao	The 5th Joint Workshop on Information Security (JWIS 2010)
An Empirical Study of Spam : Analyzing Spam Sending Systems and Malicious Web Servers	2010/7/19	Jungsuk Song, Daisuke Inoue, Masashi Eto, Hyung Chan Kim, Koji Nakao	SAINT 2010
How to Locate a Target Binary Process and Its Derivatives in System Emulator	2010/7/19	Hyung Chan Kim, Daisuke Inoue, Masashi Eto, Jungsuk Song, Koji Nakao	The 10th Annual International Symposium on Applications and the Internet
Event Correlation Analysis by means of Darknet traffic	2010/7/19	Koji Nakao	SAINT 2010
Working Towards a Primary Binary Analysis System	2010/7/13	Hyung Chan Kim, Daisuke Inoue, Masashi Eto, Jungsuk Song, Koji Nakao	The 2010 International Conference on Security and Management
Cryptography policy of Japan	2010/6/23	Koji Nakao	The 1st Korea-Japan Workshop on Cryptographic Algorithm and its Application
Overview of nicter: Japan NICT's Research and Findings on Botnet and Malware Event Monitoring	2010/3/10	Daisuke Inoue	ITSC and RAISE Forum Joint Seminar on Regional Information Security Development
A Proposal of Malware Distinction Method Based on Scan Patterns Using Spectrum Analysis	2009/12/3	Masashi Eto, Kotaro Sonoda, Daisuke Inoue, Katsunari Yoshioka, Koji Nakao	The 16th International Conference on Neural Information Processing
A Methodology for Analyzing Overall Flow of Spam-based Attacks	2009/12/3	Jungsuk Song, Daisuke Inoue, Masashi Eto, Mio Suzuki, Satoshi Hayashi, Koji Nakao	The 16th International Conference on Neural Information Processing (ICONIP 2009)

TITLE	DATE	AUTHOR	VENUE
Security Standardization in Japan —Japan Status—	2009/11/26	Koji Nakao	The 3rd China Japan Korea Standardization Workshop on Information Security (CJK SWIS 2009)
DAEDALUS: Novel Application of Large-scale Darknet Monitoring for Practical Protection of Live Networks	2009/9/23	Daisuke Inoue, Mio Suzuki, Masashi Eto, Katsunari Yoshioka, Koji Nakao	The 12th International Symposium on Recent Advances in Intrusion Detection (Poster Session)
Emulating over 10K AS topology with massive VM multiplexing	2009/8/18	Hiroaki Hazeyama, Satoshi Oota, Shinsuke Miwa, Toshiyuki Miyachi, Mio Suzuki, Satoshi Uda, Kenichi Chinen, Masatoshi Enomoto, Youki Kadobayashi, Yoichi Shinoda	ACM SIGCOMM 2009
Experiences in emulating 10K AS topology with massive VM multiplexing	2009/8/17	Shinsuke Miwa, Mio Suzuki, Hiroaki Hazeyama, Satoshi Uda, Toshiyuki Miyachi, Youki Kadobayashi, Yoichi Shinoda	VISA 2009 (ACM SIGCOMM 2009 workshop)
A Statistical Packet Inspection for Extraction of Spoofed IP Packets on Darknet	2009/8/7	Masashi Eto, Daisuke Inoue, Mio Suzuki, Koji Nakao	The 4th Joint Workshop on Information (JWIS 2009)
Toward Generic Unpacking Techniques for Malware Analysis with Quantification of Code Revelation	2009/8/6	Hyung Chan Kim, Daisuke Inoue, Masashi Eto, Yaichiro Takagi, Koji Nakao	The 4th Joint Workshop on Information Security (JWIS 2009)
Capturing Information Flow with Concatenated Dynamic Taint Analysis	2009/3/17	Hyung Chan Kim, Angelos D. Keromytis, Michael Covington, Ravi Sahita	The 4th International Conference on Availability, Reliability and Security
An Incident Analysis System NICTER and Its Analysis Engines Based on Data Mining Techniques	2008/11/26	Daisuke Inoue, Katsunari Yoshioka, Masashi Eto, Masaya Yamagata, Eisuke Nishino, Junichi Takeuchi, Kazuya Ohkouchi, Koji Nakao	The 15th International Conference on Neuro-Information Processing of the Asia Pacific Neural Network Assembly (ICONIP 2008)
NERDBOX : An Emulated Internet for Scalability Tests of Running Codes	2008/8/17	Hiroaki Hazeyama, Mio Suzuki, Shinsuke Miwa, Satoshi Uda, Toshiyuki Miyachi, Kenichi Chinen, Youki Kadobayashi, Yoichi Shinoda	ACM SIGCOMM 2008 (Demo Session)
Outfitting an Inter-AS Topology to a Network Emulation TestBed for Realistic Performance Tests of DDoS Countermeasures	2008/7/28	Hiroaki Hazeyama, Mio Suzuki, Shinsuke Miwa, Daisuke Miyamoto, Youki Kadobayashi	Workshop on Cyber Security Experimentation and Test (CSET08)
Malware Sandbox Analysis for Extracting Exploit Codes	2008/7/11	Katsunari Yoshioka, Daisuke Inoue, Masashi Eto, Yuji Hoshizawa, Hiroki Nogawa, Koji Nakao	The 3rd Joint Workshop on Information Security (JWIS 2008)
Malware Behavior Analysis in Isolated Miniature Network for Revealing Malware's Network Activity	2008/5/22	Daisuke Inoue, Katsunari Yoshioka, Masashi Eto, Yuji Hoshizawa, Koji Nakao	2008 IEEE International Conference on Communications (ICC 2008)

TITLE	DATE	AUTHOR	VENUE
NGN and Internet: from coexistence to integration	2008/5/13	Kenji Rikitake, Koji Nakao	ITU-T Innovations in NGN
nictcr: An Incident Analysis System toward Binding Network Monitoring with Malware Analysis	2008/4/22	Daisuke Inoue, Masashi Eto, Katsunari Yoshioka, Shunsuke Baba, Kazuya Suzuki, Junji Nakazato, Kazuhiro Ohtaka, Koji Nakao	Workshop on Information Security Threats Data Collection and Sharing
User Authentication Using the Personal Auditory Characteristics	2007/9/2	Kotaro Sonoda, Noriaki Asemi, Junji Nakazato, Katsunari Yoshioka, Daisuke Inoue, Osamu Takizawa	International Congress on Acoustics (ICA 2007)
A Novel Concept of Network Incident Analysis based on Multi-layer Observations of Malware Activities	2007/8/6	Koji Nakao, Katsunari Yoshioka, Daisuke Inoue, Masashi Eto	The 2nd Joint Workshop on Information Security
nictcr: An Incident Analysis System using Correlation between Network Monitoring and Malware Analysis	2006/9/21	Koji Nakao, Katsunari Yoshioka, Daisuke Inoue, Masashi Eto, Kenji Rikitake	The 1st Joint Workshop on Information Security
Digital audio watermarking based on Quantization Index Modulation of Wavelet domain	2006/6/26	Kotaro Sonoda, Katsunari Yoshioka, Osamu Takizawa, Koji Nakao	The 9th Western Pacific Acoustics Conference (WESPAC IX 2006)
Hiding Information into Emergency Public Address Sound	2006/6/26	Katsunari Yoshioka, Kotaro Sonoda, Osamu Takizawa, Koji Nakao	The 9th Western Pacific Acoustics Conference (WESPAC IX 2006)

Book

TITLE	DATE	AUTHOR	VENUE
Correlation Analysis Between Honeypot Data and IDS Alerts Using One-class SVM	2011/3/1	Jungsuk Song, Hiroki Takakura, Yasuo Okabe, Yongjin Kwon	InTech Open Access Publisher