

List of publications for Dr. Arno Wagner

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A selection of the publications listed and this list in PDF format is available for download on the Author's website at <http://www.arnowagner.info/publications>.

To get copies of publications not available for download, please contact the author at arno@wagner.name.

Books

1. Arno Wagner
Entropy-based worm detection for fast IP networks
ETH Zurich, 2008
Print version: Verlag Dr. Hut, ISBN 378-3-89963-801-1
PDF version: <http://www.arnowagner.info/phd>

Journal Publications

1. Daniela Brauckhoff, Xenofontas Dimitropoulos, Arno Wagner, Kavè Salamatian
Anomaly Extraction in Backbone Networks using Association Rules
IEEE/ACM Transactions on Networking (TON), Volume 20 Issue 6, December 2012, Pages 1788-1799
2. Arno Wagner
Entropy Based Detection of Fast Internet Worms
The Mediterranean Journal of Computers and Networks, Volume 4, No. 1, January 2008, ISSN: 1744-2397 Special Issue on Network Measurement and Data Mining
3. Christoph Meinel, Harald Sack, Arno Wagner
WWW.BDD-Portal.ORG: An Experimental Platform for Binary Decision Diagram Algorithms
LNCS 2547: "Experimental Algorithmics", 2002

Reviewed Conference and Workshop Papers

1. Arno Wagner, Ulrich Fiedler
Firewall Analysis by Symbolic Simulation
The Seventh International Conference on Internet Monitoring and Protection 2012, ICIMP 2012
Best Paper Award
2. Laurent Zimmerli, Bernhard Tellenbach, Arno Wagner, Bernhard Plattner
Rating Autonomous Systems
International Conference on Internet Monitoring and Protection 2009, ICIMP 2009
Best Paper Award
3. Daniela Brauckhoff, Arno Wagner, Xenofontas Dimitropoulos, Kavè Salamatian
Anomaly Extraction in Backbone Networks using Association Rules
ACM Internet Measurement Conference 2009, IMC 2009

4. Daniela Brauckhoff, Arno Wagner, Martin May
FLAME: A Flow-Level Anomaly Modeling Engine
USENIX Security Symposium 2008: Workshop on Cyber Security and Test, 2008
5. Arno Wagner, Thomas Dübendorfer, Lukas Hämmerle, Bernhard Plattner
Flow-Based Identification of P2P Heavy-Hitters
International Conference on Internet Surveillance and Protection 2006, ICISP 2006
 Best Paper Award
6. Arno Wagner
Entropy Based Worm and Anomaly Detection in Fast IP Networks
SIG SIDAR Graduierten-Workshop über Reaktive Sicherheit (SPRING), 2006
7. Arno Wagner, Thomas Dübendorfer, Roman Hiestand, Christoph Göldi, Bernhard Plattner
A Fast Worm Scan Detection Tool for VPN Congestion Avoidance
SIG SIDAR Conference on Detection of Intrusions and Malware & Vulnerability Assessment, DIMVA 2006
8. Daniela Brauckhoff, Bernhard Tellenbach, Arno Wagner, Martin May, Anukool Lakhina
Impact of Packet Sampling on Anomaly Detection Metrics
Proceedings of the 6th ACM SIGCOMM Conference on Internet Measurement 2006, SIGCOM 2006
9. Arno Wagner
Flow-Data Compressibility Changes During Internet Worm Outbreaks
FloCon 2005 Analysis Workshop, FloCon 2005
10. Thomas Dübendorfer, Arno Wagner, Bernhard Plattner
A Framework for Real-Time Worm Attack Detection and Backbone Monitoring
First IEEE International Workshop on Critical Infrastructure Protection 2005, IWCIP 2005
11. Thomas Dübendorfer, Arno Wagner, Theus Hossmann, Bernhard Plattner
Flow-level Traffic Analysis of the Blaster and Sobig Worm Outbreaks in an Internet Backbone
GI SIG SIDAR Conference on Detection of Intrusions and Malware & Vulnerability Assessment, DIMVA 2005
12. Arno Wagner, Bernhard Plattner
Entropy Based Worm and Anomaly Detection in Fast IP Networks
14th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises WET ICE 2005, STCA security workshop
 Best Paper Award
13. Lukas Ruf, Arno Wagner, Karoly Farkas, Bernhard Plattner
A flexible router platform for next generation network services
Dagstuhl Seminar Proceedings: Service Management and Self-Organization in IP-based Networks, 2005
14. Thomas Dübendorfer, Arno Wagner, Bernhard Plattner
An Economic Damage Model for Large-Scale Internet Attacks
13th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises, WET ICE 2004, Workshop on Enterprise Security

15. Lukas Ruf, Arno Wagner, Karoly Farkas, Bernhard Plattner
A Detection and Filter System for Use Against Large-scale DDoS Attacks in the Internet Backbone
Proceedings of the Sixth Annual International Working Conference on Active Networking, IWAN 2004
16. Regine Endsuleit, Arno Wagner
Possible Attacks on and Countermeasures for Secure Multi-Agent Computation
The 2004 International Conference on Security and Management, 2004
17. Arno Wagner, Thomas Dübendorfer, Roman Hiestand, Bernhard Plattner
Experiences with Worm Propagation Simulations
ACM CCS Conference 2003, Workshop on Rapid Malcode, WORM 2003
18. Arno Wagner, Bernhard Plattner
Peer-to-Peer Systems as Attack Platform for Distributed Denial-of-Service
ACM CCS Conference 2002, SACT Workshop, SACT 2002
19. Arno Wagner
WWW.BDD-PORTAL.ORG: Ein Forschungsportal im WWW
GI Informatik 2000 (K. Mehlhorn, G. Snelting), 2000
20. Christoph Meinel, Arno Wagner
WWW.BDD-PORTAL.ORG
IEEE IWLS Workshop, 2000
21. Christoph Meinel, Arno Wagner
WWW.BDD-PORTAL.ORG - An Electronical Basis for Cooperative Research in EDA
Proceedings of CRIS2000, 2000

IETF RFCs

1. B. Trammell, A. Wagner, B. Claise
Flow Aggregation for the IP Flow Information Export (IPFIX) Protocol, IETF, accepted for publication pending external dependencies as of December, 2012
 Draft available from
<http://datatracker.ietf.org/doc/draft-ietf-ipfix-a9n/>
2. Brian H. Trammell, Elisa Boschi, Lutz Mark, Tanja Zseby, Arno Wagner
RFC 5655: Specification of the IP Flow Information Export (IPFIX) File Format, IETF, October, 2009

Technical Reports (selection)

1. Arno Wagner
(S)LOC Count Evolution for Selected OSS Projects
Tik Report 315, Communication Systems Group, ETH Zurich, 2010
2. Daniela Brauckhoff, Xenofontas Dimitropoulos, Arno Wagner, Kavè Salamatian
Anomaly Extraction in Backbone Networks using Association Rules
Tik Report 309, Communication Systems Group, ETH Zurich, 2009

Other Publications

1. Arno Wagner (Maintainer, Main Contributor), Milan Broz (Contributor)
Cryptsetup FAQ
FAQ for Linux disk encryption with dm-crypt and LUKS. Ongoing work.
<http://code.google.com/p/cryptsetup/wiki/FrequentlyAskedQuestions>