

# 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](mailto: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**  
Accepted for publication pending minor changes as of March 2011 by the  
*IEEE/ACM Transactions on Networking*
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. Laurent Zimmerli, Bernhard Tellenbach, Arno Wagner, Bernhard Plattner  
**Rating Autonomous Systems**  
*IEEE International Conference on Internet Monitoring and Protection 2009, ICIMP 2009*
2. Daniela Brauckhoff, Arno Wagner, Xenofontas Dimitropoulos, Kavè Salamatian  
**Anomaly Extraction in Backbone Networks using Association Rules**  
*ACM Internet Measurement Conference 2009, IMC 2009*
3. Daniela Brauckhoff, Arno Wagner, Martin May  
**FLAME: A Flow-Level Anomaly Modeling Engine**  
*USENIX Security Symposium 2008: Workshop on Cyber Security and Test*, 2008

4. 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*
5. Arno Wagner  
**Entropy Based Worm and Anomaly Detection in Fast IP Networks**  
*SIG SIDAR Graduierten-Workshop über Reaktive Sicherheit (SPRING), 2006*
6. 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*
7. 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*
8. Arno Wagner  
**Flow-Data Compressibility Changes During Internet Worm Outbreaks**  
*FloCon 2005 Analysis Workshop, FloCon 2005*
9. 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*
10. 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*
11. 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*
12. 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*
13. 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*
14. 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*

15. Regine Endsuleit, Arno Wagner  
**Possible Attacks on and Countermeasures for Secure Multi-Agent Computation**  
*The 2004 International Conference on Security and Management, 2004*
16. Arno Wagner, Thomas Dübendorfer, Roman Hiestand, Bernhard Plattner  
**Experiences with Worm Propagation Simulations**  
*ACM CCS Conference 2003, Workshop on Rapid Malcode, WORM 2003*
17. Arno Wagner, Bernhard Plattner  
**Peer-to-Peer Systems as Attack Platform for Distributed Denial-of-Service**  
*ACM CCS Conference 2002, SACT Workshop, SACT 2002*
18. Arno Wagner  
**WWW.BDD-PORTAL.ORG: Ein Forschungsportal im WWW**  
*GI Informatik 2000 (K. Mehlhorn, G. Snelting), 2000*
19. Christoph Meinel, Arno Wagner  
**WWW.BDD-PORTAL.ORG**  
*IEEE IWLS Workshop, 2000*
20. Christoph Meinel, Arno Wagner  
**WWW.BDD-PORTAL.ORG - An Electronical Basis for Cooperative Research in EDA**  
*Proceedings of CRIS2000, 2000*

## IETF RFCs

1. 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>