

Dr. Jörg Daubert

Curriculum Vitae

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Info

Geburt 9. März 1984, Bad Soden-Salmünster
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Arbeit https://www.informatik.tu-darmstadt.de/telekooperation/telecooperation_group/staff_1/staff_1_details_22272.en.jsp
IEEE ComSoc #93366464

Berufserfahrung

2003-2004 **Zivildienst**, *Die Lebensgemeinschaft E.V.*, Schlitz-Sassen.

2007 **Studentischer Assistent**, *Telecooperation Group*, Technische Universität Darmstadt.
Entwicklung und Betreuung des Literaturverwaltungssystems der Gruppe (Java5EE).

2008-2010 **Studentischer Assistent**, *Multimedia Communications Lab*, Technische Universität Darmstadt.
Client/Server Anwendungen (Java5EE), Performanz-Benchmarks und Optimierung verteilter Anwendungen

2010 **Freelancer IT Consulting**.
Projekte mit mehreren Partnern, Bezug zu Enterprise und mobilen Anwendungen.

2011 **Junior Researcher**, *Cyber security research group*, AGT Germany.
Forschung und Entwicklung im Bereich Indoor-Lokalisierung und dem Management von Menschenmassen

2011-2015 **Researcher**, *Cyber security research group, IoT analytics group*, AGT Group (R&D) GmbH, AGT International.
Betreuung des Indoor Localization Projektes; Perimetersicherheit and Management von Menschenmassen. BMWi PeerEnergyCloud, FP7 Big Data Public Private Forum, SCADA/ICS Sicherheit und Analyse, ...

2014-2016 **Area Head / Group Leader**, *Secure Smart Infrastructures (SSI) Area*, Telecooperation Lab, Technische Universität Darmstadt.
Gruppenleitung, Projektakquise, Betreuung von Promovierenden

2016 **Senior Researcher, Area Head, Coordinator**, *Smart Protection in Infrastructures and Networks (SPIN) Area*, Telecooperation Lab, Technische Universität Darmstadt.
Koordinator DFG RTG "Privacy & Trust for Mobile Users", Gruppenleitung, Projektakquise, Betreuung von Promovierenden

Ausbildung

- 2000-2003 **Allgemeine Hochschulreife**, *Max-Eyth-Schule*, Alsfeld.
Fokus Informatik und Mathematik
- 2004-2008 **Bachelor of Science Informatik**, *Technische Universität Darmstadt*.
Fokus auf verteilte Systeme und Data Mining.
Abschlussarbeit: Entwicklung einer Client-Applikation für die Erfassung und Übertragung von virtuellen Parametern.
- 2008
2011 **Master of Science Informatik**, *Technische Universität Darmstadt*.
IT Management (Wirtschafts- und Rechtswissenschaften)
Fokus auf Cyber Security, Graphentheorie, Performanzevaluation.
Abschlussarbeit: Servicekomposition von Reiseprozessen mittels Graphtransformation).
- 2011
2016 **Ph.D./Dr. rer. nat.**, *Technische Universität Darmstadt*, Center for Advanced Security Research Darmstadt (CASED), Telecooperation Lab.
Promotion: Anonymous publish/subscribe overlays.

Sprachen

- Deutsch Muttersprache
Englisch Verhandlungssicher

Zertifikate

- 2003 Cisco Certified Network Associate (CCNA)
- 2012 **Academic Writing in English**, *Ingenium*.
- 2012 **Antragswerkstatt Drittmittel**, *Ingenium*.
- 2012 **Projektmanagement (Industrieperspektive)**, *Ingenium*.
- 2013 **Conference Presentation: Engaging the Listener in Your Talk**, *Ingenium*.
- 2013 **Zeitmanagement und Selbstmotivation für Doktoranden**, *Ingenium*.
- 2016 **Administration von EU-Projekten in H2020**, *Ingenium*.

Lehre

- 2011 **Seminar Telekooperation**.
- 2012 **Seminar Telekooperation**.
- 2012 **Bachelorpraktikum**.
- 2013 **Seminar Telekooperation**.
- 2013 **Bachelorpraktikum**.
- 2014 **Resilient Networks**, *Vertretungsvorlesung, Reading Group*.
- 2014 **Seminar Telekooperation**.
- 2014 **Smart Cities Seminar**.
- 2015 **Seminar Telekooperation**.
- 2015 **TK3 Ubiquitous and Mobile Computing**, *Vorlesungsblock Privacy*.
- 2015 **Forschungsprojekt Telekooperation**.
- 2016 **Computer Netzwerke und verteilte Systeme**, *Assistent, Übungsbetrieb*.
- 2016 **TK3 Ubiquitous and Mobile Computing**, *Vorlesungsblock Privacy*.

- 2016 ● Bachelorpraktikum.
- 2016 ● Seminar Telekooperation.
- 2016 ● Protection in Networked Systems, *Eigene Vorlesung*.
- 2017 ● TK3 Ubiquitous and Mobile Computing, *Vorlesungsblock Privacy*.
- 2017 ● Seminar Telekooperation.
- 2017 ● Protection in Networked Systems, *Eigene Vorlesung*.
- 2017 ● International Summer School “Economics of IT Security and Privacy”, *Vortrag*.
- 2018 ● Computer Netzwerke und verteilte Systeme, *Assistent, Übungsbetrieb*.
- 2018 ● TK3 Ubiquitous and Mobile Computing, *Vorlesungsblock Privacy*.

Veröffentlichungen

- 2018 Daubert, Jörg, Dhanasekar Boopalan, Max Mühlhäuser, and Emmanouil Vasilomanolakis. “HoneyDrone: A medium-interaction unmanned aerial vehicle honeypot”. In: *2018 IEEE/IFIP Network Operations and Management Symposium, NOMS 2018, Taipei, Taiwan, April 23-27, 2018*. IEEE, pp. 1–6. DOI: 10.1109/NOMS.2018.8406315. URL: <https://doi.org/10.1109/NOMS.2018.8406315>.
- Vasilomanolakis, Emmanouil, Jörg Daubert, Dhanasekar Boopalan, and Max Mühlhäuser. “Don't steal my drone: Catching attackers with an unmanned aerial vehicle honeypot”. In: *2018 IEEE/IFIP Network Operations and Management Symposium, NOMS 2018, Taipei, Taiwan, April 23-27, 2018*. IEEE, pp. 1–2. DOI: 10.1109/NOMS.2018.8406119. URL: <https://doi.org/10.1109/NOMS.2018.8406119>.
- 2017 Alexopoulos, Nikolaos, Jörg Daubert, Max Mühlhäuser, and Sheikh Mahbub Habib. “Beyond the Hype: On Using Blockchains in Trust Management for Authentication”. In: *2017 IEEE Trustcom/BigDataSE/ICSS, Sydney, Australia, August 1-4, 2017*. IEEE, pp. 546–553. DOI: 10.1109/Trustcom/BigDataSE/ICSS.2017.283. URL: <https://doi.org/10.1109/Trustcom/BigDataSE/ICSS.2017.283>.
- Egert, Rolf, Florian Volk, Jörg Daubert, and Max Mühlhäuser. “Mitigating Brown-Outs: Fair Distribution of Locally Sourced Energy in Smart Grids”. In: *The Seventh International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies - ENERGY 2017*. IARIA. Barcelona: IARIA.
- Funke, Sebastian, Alexander Wiesmaier, and Jörg Daubert. “Constrained PET Composition for Measuring Enforced Privacy”. In: *Proceedings of the 12th International Conference on Availability, Reliability and Security, Reggio Calabria, Italy, August 29 - September 01, 2017*. ACM, 16:1–16:10. DOI: 10.1145/3098954.3098968. URL: <http://doi.acm.org/10.1145/3098954.3098968>.
- Grube, Tim, Sascha Hauke, Jörg Daubert, and Max Mühlhäuser. “Ant colonies for efficient and anonymous group communication systems”. In: *2017 International Conference on Networked Systems, NetSys 2017, Göttingen, Germany, March 13-16, 2017*. IEEE, pp. 1–8. DOI: 10.1109/NetSys.2017.7903958. URL: <https://doi.org/10.1109/NetSys.2017.7903958>.
- Grube, Tim, Sascha Hauke, Jörg Daubert, and Max Mühlhäuser. “Ant colony optimisation - A solution to efficient anonymous group communication?” In: *14th IEEE Annual Consumer Communications & Networking Conference, CCNC 2017, Las Vegas, NV, USA, January 8-11, 2017*. IEEE, pp. 337–340. DOI: 10.1109/CCNC.2017.7983129. URL: <https://doi.org/10.1109/CCNC.2017.7983129>.

- Grube, Tim, Markus Thummerer, Jörg Daubert, and Max Mühlhäuser. "Cover Traffic: A Trade of Anonymity and Efficiency". In: *Security and Trust Management - 13th International Workshop, STM 2017, Oslo, Norway, September 14-15, 2017, Proceedings*. Ed. by Giovanni Livraga and Chris J. Mitchell. Vol. 10547. Lecture Notes in Computer Science. Springer, pp. 213–223. DOI: 10.1007/978-3-319-68063-7_15. URL: https://doi.org/10.1007/978-3-319-68063-7_15.
- Tundis, Andrea, Florian Huber, Bernhard Jäger, Jörg Daubert, Emmanouil Vasilo-manolakis, and Max Mühlhäuser. "Challenges and Available Solutions against Organized Cyber-Crime and Terrorist Networks". In: *International Conference on Safety and Security Engineering*. to appear. Rome, Italy.
- 2016 Daubert, Jörg. "Anonymous Publish-Subscribe Overlays". PhD thesis. Darmstadt University of Technology, Germany. URL: <http://tuprints.ulb.tu-darmstadt.de/5473/>.
- Daubert, Jörg, Mathias Fischer, Tim Grube, Stefan Schiffner, Panayotis Kikiras, and Max Mühlhäuser. "AnonPubSub: Anonymous publish-subscribe overlays". In: *Computer Communications* 76, pp. 42–53. DOI: 10.1016/j.comcom.2015.11.004. URL: <https://doi.org/10.1016/j.comcom.2015.11.004>.
- Daubert, Jörg, Tim Grube, Max Mühlhäuser, and Mathias Fischer. "On the anonymity of privacy-preserving many-to-many communication in the presence of node churn and attacks". In: *13th IEEE Annual Consumer Communications & Networking Conference, CCNC 2016, Las Vegas, NV, USA, January 9-12, 2016*. IEEE, pp. 738–744. DOI: 10.1109/CCNC.2016.7444871. URL: <https://doi.org/10.1109/CCNC.2016.7444871>.
- Strohbach, Martin, Jörg Daubert, Herman Ravkin, and Mario Lischka. "Big Data Storage". In: *New Horizons for a Data-Driven Economy - A Roadmap for Usage and Exploitation of Big Data in Europe*. Ed. by José María Cavanillas, Edward Curry, and Wolfgang Wahlster. Springer, pp. 119–141. DOI: 10.1007/978-3-319-21569-3_7. URL: https://doi.org/10.1007/978-3-319-21569-3_7.
- 2015 Daubert, Jörg, Alexander Wiesmaier, and Panayotis Kikiras. "A view on privacy & trust in IoT". In: *IEEE International Conference on Communication, ICC 2015, London, United Kingdom, June 8-12, 2015, Workshop Proceedings*. IEEE, pp. 2665–2670. DOI: 10.1109/ICCW.2015.7247581. URL: <https://doi.org/10.1109/ICCW.2015.7247581>.
- Daubert, Jörg, Tim Grube, Max Mühlhäuser, and Mathias Fischer. "Internal attacks in anonymous publish-subscribe P2P overlays". In: *2015 International Conference and Workshops on Networked Systems, NetSys 2015, Cottbus, Germany, March 9-12, 2015*, pp. 1–8. DOI: 10.1109/NetSys.2015.7089074. URL: <http://dx.doi.org/10.1109/NetSys.2015.7089074>.
- Funke, Sebastian, Jörg Daubert, Alexander Wiesmaier, Panayotis Kikiras, and Max Mühlhäuser. "End-2-End privacy architecture for IoT". In: *2015 IEEE Conference on Communications and Network Security, CNS 2015, Florence, Italy, September 28-30, 2015*. IEEE, pp. 705–706. DOI: 10.1109/CNS.2015.7346895. URL: <https://doi.org/10.1109/CNS.2015.7346895>.
- Hasan, Tomi, Panayotis Kikiras, Alessandro Leonardi, Holger Ziekow, and Jörg Daubert. "Cloud-based IoT Analytics for the Smart Grid: Experiences from a 3-year Pilot". In: *EAI Endorsed Trans. Cloud Systems* 1.2, e2. DOI: 10.4108/icst.tridentcom.2015.259694. URL: <https://doi.org/10.4108/icst.tridentcom.2015.259694>.

- Vasilomanolakis, Emmanouil, Jörg Daubert, Manisha Luthra, Vangelis Gazis, Alexander Wiesmaier, and Panayotis Kikiras. "On the Security and Privacy of Internet of Things Architectures and Systems". In: *2015 International Workshop on Secure Internet of Things, SloT 2015, Vienna, Austria, September 21-25, 2015*. Ed. by Gabriel Ghinita and Pedro Peris-Lopez. IEEE Computer Society, pp. 49–57. DOI: 10.1109/SIoT.2015.9. URL: <https://doi.org/10.1109/SIoT.2015.9>.
- 2014 Daubert, Jörg, Leon Bock, Panayotis Kikiras, Max Mühlhäuser, and Mathias Fischer. "Twitterize: Anonymous Micro-blogging". In: *11th IEEE/ACS International Conference on Computer Systems and Applications, AICCSA 2014, IoTSMS Workshop Proceedings, Doha, Qatar, November 10-13, 2014*, pp. 817–823. DOI: 10.1109/AICCSA.2014.7073285. URL: <http://dx.doi.org/10.1109/AICCSA.2014.7073285>.
- 2013 Daubert, Jörg, Mathias Fischer, Stefan Schiffner, and Max Mühlhäuser. "Distributed and Anonymous Publish-Subscribe". In: *Network and System Security - 7th International Conference, NSS 2013, Madrid, Spain, June 3-4, 2013. Proceedings*, pp. 685–691. DOI: 10.1007/978-3-642-38631-2_57. URL: http://dx.doi.org/10.1007/978-3-642-38631-2_57.
- 2011 Daubert, Jörg, Erwin Aitenbichler, and Stephan Borgert. "Service-Komposition von Reiseprozessen mittels Graphtransformation". In: *3rd Central-European Workshop on Services and their Composition, Services und ihre Komposition, ZEUS 2011, Karlsruhe, Germany, February 21-22, 2011. Proceedings*, pp. 81–88. URL: <http://ceur-ws.org/Vol-705/paper11.pdf>.