

Dr. André Weimerskirch, MBA

Internet: www.weimerskirch.org
email: andre@weimerskirch.org

EDUCATION

2008 - 2013

Henley Business School, Greenlands, England

- Master of Business Administration, October 2013
- Executive MBA
- Part-time in parallel to full-time employment

2001 - 2004

Ruhr-University Bochum, Bochum, Germany

- Dr.-Ing. (Ph.D.), Electrical Engineering and Information Technology, July 2004
- Thesis: Authentication in Ad-hoc and Sensor Networks
- Advisor: Prof. Christof Paar; Reader: Prof. Jean-Pierre Hubaux

1999 - 2001

Worcester Polytechnic Institute, Worcester, MA

- Master of Science, Computer Science, May 2001
- Thesis: The Application of the Mordell-Weil Group to Cryptographic Systems

GPA: 4.0/4.0

1995 - 1999

Darmstadt University of Technology, Darmstadt, Germany

- Double Major in Business Administration and Computer Science
- Second Major in Mathematics
- Pre-Diploma October 1997 (BA/CS), Pre-Diploma April 1998 (Mathematics)

GPA: Ranked first (BA/CS)

EXPERIENCE

June 2022 – Present

Advisory Board Member – Block Harbor Cybersecurity

Aug. 2018 – Present

Adjunct Associate Research Scientist, University of Michigan Transportation Research Institute, Ann Arbor, MI, USA

Adjunct faculty at University of Michigan and Chair of the Mcity cybersecurity working group.

Jan. 2021 – Present

Vice President – Platform Software, Cybersecurity and Functional Safety, Lear Corporation, Ann Arbor, MI, USA

Additionally responsible for Lear's global platform software (AutoSAR and Linux), comprising harmonization of hardware components and harmonization of software platforms across product lines, reducing NRE cost,

and building a global team.

Jan. 2018 –
Jan. 2021

Vice President – Cybersecurity and Functional Safety, Lear Corporation, Ann Arbor, MI, USA

Heading Lear's global product cybersecurity and functional safety. Established executive management awareness and review processes and built a global team.

Aug. 2016 –
Jan. 2018

Vice President – Cybersecurity, Lear Corporation, Southfield, MI, USA

Established Lear's global product cybersecurity, including the cybersecurity engineering process, technology strategy and solutions, and partnerships.

Jan. 2014 – today

Consultant, Forecast Security Technologies, Inc., USA

Strategic consulting and due diligence to identify acquisition targets and initiate company acquisitions

Technical consulting for automotive on-board cybersecurity and connected vehicle communication security.

Jan. 2014 –
July 2016

Associate Research Scientist, University of Michigan, Ann Arbor, MI, USA

Head of University of Michigan Transportation Research Institute's (UMTRI) cybersecurity and privacy efforts.

Co-chair of the Mobility Transformation Center (MTC) cybersecurity working group.

Vice-chair of SAE's Vehicle Electrical System Security Committee.

Mar. 2007 -
Dec. 2013

Chief Executive Officer and President, ESCRYPT Inc., Ann Arbor, MI, USA

Co-founder of ESCRYPT Inc. Head of ESCRYPT's business in North America and Asia with offices in USA, Korea, and Japan. Developed the future vehicle-to-vehicle safety communications security and privacy protocols and architecture for the USA deployment. Lead development of a vehicle-to-vehicle secure communication unit complying with the IEEE 1609.2 standard and initiated development of a public-key infrastructure product. Performed a large variety of risk assessments for industrial and high-tech customers, and designed legacy-aware cost-efficient secure systems.

2012 – 2013

Managing Director, ESCRYPT GmbH, Bochum, Germany

Co-founder and Head of North America and Asia (South Korea, Japan and China) business. Established offices in Michigan, Seoul and Yokohama.

2004 -
Feb. 2007

Chief Technology Officer, ESCRYPT GmbH, Bochum, Germany

Co-founder and responsible for strategic planning and operative business. Set-up ESCRYPT to become widely known in the embedded security market. Performed Common Criteria certifications and production-level code development for the automotive industry. Worked intensely to evaluate and secure computing platforms (e.g. smart-cards, TPMs, and standard embedded controllers) and performed forensic security evaluation of Pay-TV hacks for court.

Oct. 2001 -
Aug. 2004

Research Assistant, Ruhr-University Bochum, Bochum, Germany

Doing my Ph.D. in pervasive and embedded security. Research in the area

of security in mobile, ad-hoc and sensor networks, cryptographic protocols, efficient arithmetic, and applied cryptography. Performed teaching and student's supervising, and headed several industry projects.

Feb. 2003 -
Aug. 2003

Researcher, Aarhus University, Aarhus, Denmark (fellowship)
European Union full-time fellowship to do research as part of my Ph.D.;
Worked on security protocols for embedded systems and ad-hoc networks.

July 2002 -
Sept. 2002

Researcher, Sun Microsystems Laboratories, Mountain View, CA USA
(internship)
Did research in the area of efficient next generation cryptography;
Implemented elliptic curve cryptography for a software library.

Jan. 2002 -
June 2002

IT-Consultant, Josteit, Herten & Partner, Dusseldorf, Germany (part-time
job)
Consultancy in security related areas like PKI, Internet and application
security, and vulnerability assessments.

June 2001 -
Sept. 2001

Researcher, Accenture, Sophia Antipolis, France (internship)
Analyzed security of wireless networks; Modeled new security policies and
developed a biometric access control mechanism.

Aug. 2000 -
May 2001

Research Assistant, Worcester Polytechnic Institute, Worcester, MA
USA
Doing my Master in cryptography. Worked on an industry project; helped
organizing a large conference.

May 2000 -
July 2000

Researcher, Philips Research, Briarcliff Manor, NY USA (internship)
Worked on copy protection method for digital music; Analyzed a hardware
random number generator; Studied cryptanalysis methods for DES.

Feb. 97 -
July 99

Web Developer, Deutsche Post AG, Darmstadt, Germany (part-time job)
Set up the Intranet with Lotus Notes; Designed and developed Workflow,
Workgroup and Database applications; Consulted customers and in-house
developers.

Dec. 98 -
July 99

Notes Developer, Darmstadt University of Technology, Darmstadt,
Germany (part-time job)
Planned and implemented a Novell Network and Lotus Notes system;
Analyzed extant workflows and implemented them.

Oct. 98 -
Feb. 99

Teaching Assistant, Darmstadt University of Technology, Darmstadt,
Germany
Teaching Assistant for Operating Systems course. Advised, instructed and
graded students.

March 96 -
Nov. 96

Network Administrator, Siemens AG, Frankfurt am Main, Germany (part-
time job)
Administered a Windows NT network, maintained the e-mail system and
performed troubleshooting of LAN computer systems.

May 95 -
Jun. 95

Network Administrator, Agrevo AG, Frankfurt/Hoechst, Germany
(internship)

Administered the network, maintained a Microsoft Mail system, installed new PC equipment and upgraded software.

ADVISORY BOARDS

- Block Harbor Cybersecurity
- University of Michigan Dearborn's Computer and Information Science (CIS) Professional Advisory Board
- University of Michigan Dearborn's Industry Advisory Board (IAB) for the Cybersecurity Center
- Uptane (Security of SOTA) Board of Directors

AWARDS AND HONORS

- 2011 SAE Arch T. Colwell Merit Award
- 2011 SAE Vincent Bendix Automotive Electronics Engineering Award
- Selected as expert by the European Telecommunications Standards Institute (ETSI) to define the European standard for vehicle-to-vehicle and vehicle-to-infrastructure secure communication.
- Transferpreis (Transfer Award) 2005 for technology transfer from academia to industry of rubitec (awarded with 10,000 €).
- European Union Marie Currie full-time fellowship for research visit at Aarhus University, Feb. 2003 - Aug. 2003.
- e-fellows.net scholarship 2001-2004.
- Selected by Sun Microsystems Laboratories for a full scholarship for the academic year 2000/2001.
- Full-time scholarship of German Academic Exchange Service (DAAD) 1999-2000.
- Best Pre Diploma out of 80 students in my field at Darmstadt University of Technology in the academic year 1997/98.

PUBLICATIONS

Journal Papers

- Benedikt Brecht, Dean Therriault, André Weimerskirch, William Whyte, Virendra Kumar, Thorsten Hehn, and Roy Goudy, "A Security Credential Management System for V2X Communications", In IEEE Transactions on Intelligent Transportation Systems, vol. 19, issue 12, Dec. 2018, pages 3850 – 3871.
- André Weimerskirch, "Secure Software Flashing", In Society of Automotive Engineers (SAE) International Journal of Passenger Cars — Electronic and Electrical Systems, October 2009, 2:83-86.
- Christof Paar and André Weimerskirch, "Embedded Security in a Pervasive World", Elsevier Science's Information Security Technical Report, vol 12, no 3, pp 155-161, 2007.
- Marko Wolf, André Weimerskirch, and Thomas Wollinger, "State-of-the-Art: Embedding Security in Vehicles", EURASIP Journal on Embedded Systems, Special Issue on Embedded Systems for Intelligent Vehicles, 2007.
- Bernd Lamparter, Christof Paar, André Weimerskirch, and Dirk Westhoff, "On Digital Signatures in Ad Hoc Networks", Wiley Journal European Transactions on Telecommunications, Special Issue on Self-Organization in Mobile Networking, September 2005.

Book Chapters

- André Weimerskirch, Steffen Becker, and Bill Hass, "Commercial Vehicle

Conference Papers

- vs. Automotive Cybersecurity: Commonalities and Differences”, Cybersecurity for Commercial Vehicles, SAE International, 2018.
- André Weimerskirch, Jason J. Haas, Yih-Chun Hu, and Kenneth P. Laberteaux, “Data Security in Vehicular Communications Networks”, VANET – Vehicular Applications and Inter-Networking Technologies, Wiley Blackwell, 2010.
 - Marko Wolf, André Weimerskirch, and Christof Paar, “Secure In-Vehicle Communication”, Embedded Security in Cars, Springer Monograph Series, 2005.
 - Marko Wolf, André Weimerskirch, and Christof Paar, “Automotive Digital Rights Management Systems”, Embedded Security in Cars, Springer Monograph Series, 2005.
 - André Weimerskirch, Dirk Westhoff, Stefan Lucks, and Erik Zenner, “Efficient Pairwise Authentication Protocols for Sensor and Ad-hoc Networks”, Sensor Network Operations, IEEE Press, 2004.
 - André Weimerskirch, “Fixed-base exponentiation”, Encyclopedia of Cryptography and Security, 2004.
 - André Weimerskirch, “Fixed-exponent exponentiation”, Encyclopedia of Cryptography and Security, 2004.
 - André Weimerskirch, “Karatsuba algorithm”, Encyclopedia of Cryptography and Security, 2004.
- Shengtuo Hu, Qingzhao Zhang, Andre Weimerskirch, and Z. Morley Mao, “Gatekeeper: A Gateway-based Broadcast Authentication Protocol for the In-Vehicle Ethernet”, ACM ASIA Conference on Computer and Communications Security (AsiaCCS) 2022.
 - Armin R. Wasicek, Mert D. Pesé, André Weimerskirch, Yelizaveta Burakova, and Karan Singh, “Context-aware Intrusion Detection in Automotive Control Systems”, escar USA 2017, June 21-22, 2017, Ypsilanti, MI, USA.
 - Dominic Paulraj, Nazeer Shaik, and André Weimerskirch, “V2X Communication Security, Cyber Security, and Privacy”, CTI Symposium USA, May 15-18, 2017, Novi, MI, USA.
 - Jiafa Liu, Di Ma, Haojin Zhu, and André Weimerskirch, “A Functional Co-Design towards Safe and Secure Vehicle Platooning”, 3rd ACM Cyber-Physical System Security Workshop (CPSS 2017), Abu Dhabi, UAE, April 2, 2017.
 - Francesc Fons, Mariano Fons, Paul Olivier, and André Weimerskirch, “A Modular, Reconfigurable and Updateable Embedded Cyber Security Hardware Solution for Automotive”, Embedded World 2017, March 14-16, 2017, Nuremberg, Germany.
 - Trishank Karthik Kuppusamy, Akan Brown, Sebastien Awwad, Damon McCoy, Russ Bielawski, Cameron Mott, Sam Lauzon, André Weimerskirch, and Justin Cappos, “UPTANE: Securing Software Updates for Automobiles”, escar Europe, November 16-17, 2016, Munich, Germany.
 - Sumeet Chhawri, Derrick Dominic, Ryan Eustice, Di Ma, André Weimerskirch, “Risk Assessment for Cooperative Automated Driving”, Second ACM Workshop on Cyber-Physical Systems Security & Privacy (CPS-SPC), October 28, Vienna, Austria.
 - Yelizaveta Burakova, Bill Hass, Leif Millar, and André Weimerskirch, “Truck Hacking: An Experimental Analysis of the SAE J1939 Standard”,

Usenix WOOT, August 11-12, 2016, Austin, TX, USA.

- Sumeet Chhawri, Derrick Dominic, Ryan Eustice, Di Ma, André Weimerskirch, “Threat Analysis for Cooperative Automated Driving”, escar USA, June 1-2, 2016, Ypsilanti, MI, USA.
- Kyusuk Han, André Weimerskirch, and Kang G. Shin, “A practical solution to achieve real-time performance in the automotive network by randomizing frame identifier”, escar Europe, November 11-12, 2015, Cologne, Germany
- Armin Wasicek, André Weimerskirch, “Recognizing Manipulated Electronic Control Units”, SAE 2015 World Congress, April 21-23, Detroit, USA.
- André Weimerskirch, Scott Bogard, and Debby Bezzina, “Lessons Learned: Security and Privacy in Safety Pilot Model Deployment”, ITS World Congress 2014, Detroit, MI, September 7-11, 2014.
- Martin Moser, Daniel Estor, Moritz Minzlaff, André Weimerskirch, and Lars Wolleschensky, “Operating a Car-to-X PKI – Challenges for Security and Privacy”, FISITA World Automotive Congress, June 2-6, 2014, Maastricht, The Netherlands.
- William Whyte, André Weimerskirch, Virendra Kumar, and Thorsten Hehn, “A Security Credential Management System for V2V Communications”, 2013 IEEE Vehicular Networking Conference (VNC 2013), December 16-18, 2013, Boston, USA.
- Christian Schleiffer, Marko Wolf, André Weimerskirch, and Lars Wolleschensky, “Secure Key Management – A Key Feature for Modern Vehicle Electronics”, SAE 2013 World Congress, April 16, 2013, Detroit, USA.
- Tim Güneysu, Igor Markov, and André Weimerskirch, “Securely Sealing Multi-FPGA Systems”, The 8th International Symposium on Applied Reconfigurable Computing (ARC 2012), March 21-23, 2012, Hong Kong.
- André Weimerskirch, “V2X Security & Privacy: The Current State and its Future”, 18th ITS World Congress, October 16-20, 2011, Orlando, USA.
- Hariharan Krishnan, André Weimerskirch, “Verify-on-Demand – A Practical and Scalable Approach for Broadcast Authentication in Vehicle-to-Vehicle Communication”, SAE 2011, World Congress, April 12-14, 2011, Detroit, USA.
- André Weimerskirch, “Do Vehicles need Data Security?”, SAE 2011 World Congress, April 12-14, 2011, Detroit, USA.
- Christof Paar, Kai Schramm, André Weimerskirch, and Marko Wolf, “Implementing Data Security and Privacy in Next-Generation Electric Vehicle Systems”, SAE 2010 World Congress, April 13-15, 2010, Detroit, USA.
- Levente Buttyán, Tamás Holczer, André Weimerskirch, and William Whyte, “SLOW: A Practical Pseudonym Changing Scheme for Location Privacy in VANETs”, First IEEE Vehicular Networking Conference 2009 (IEEE VNC 2009), October 28-30, 2009, Tokyo, Japan.
- André Weimerskirch, Kai Schramm, Lars Wolleschensky, and Thomas Wollinger, “The Dilemma of Data Security, Privacy, Control and Liability in V2X”, ITS World Congress, September 21-25, 2009, Stockholm, Sweden.
- André Weimerskirch, Kai Schramm, and Lars Wolleschensky, “Authentication and Privacy in Vehicular Networks: State-of-the-Art and Outlook”, ITS America’s 2009 Annual Meeting and Exposition, June 1-3, 2009, National Harbor, MD, USA.
- Christof Paar, Andy Rupp, Kai Schramm, André Weimerskirch, and

Wayne Burleson, "Securing Green Cars: IT Security in Next Generation Electric Vehicle Systems", ITS America's 2009 Annual Meeting and Exposition, June 1-3, 2009, National Harbor, MD, USA.

- Christof Paar, Jan Pelzl, Andy Rupp, Kai Schramm, André Weimerskirch "Green Car Security: IT-Sicherheit und Elektromobilität". DACH Security 2009, Ruhr-Universität Bochum, Bochum, Germany, May, 19-20, 2009.
- André Weimerskirch, Marko Wolf, and Thomas Wollinger, "Introduction to Vehicular Embedded Security", SAE 2009 World Congress, April 20-23, 2009, Detroit, USA.
- André Weimerskirch, "Secure Software Flashing", SAE 2009 World Congress, April 20-23, 2009, Detroit, USA; selected for inclusion in SAE International Journal of Passenger Cars – Electronic and Electrical Systems, 2(1): 83-86, 2009.
- Stefan Lucks, Erik Zenner, André Weimerskirch, Dirk Westhoff, "Concrete Security for Entity Recognition: The Jane Doe Protocol", 9th International Conference on Cryptology in India (INDOCRYPT 2008), December 14-17, 2008, IIT Kharagpur, India.
- Andrey Bogdanov, Dario Carluccio, André Weimerskirch, and Thomas Wollinger, "Embedded Security Solutions for Automotive Applications", 11th International Forum on Advanced Microsystems for Automotive Applications, May 9-10, 2007, Berlin, Germany.
- Axel Poschmann, Dirk Westhoff, and André Weimerskirch, "Dynamic Code Update for the Efficient Usage of Security Components in WSNs", 4th Workshop on Mobile Ad-Hoc Networks (WMAN 2007), March 1-2, 2007, Bern, Switzerland.
- André Weimerskirch, Christof Paar, and Marko Wolf, "Cryptographic Component Identification: Enabler for Secure Inter-vehicular Networks", 62nd IEEE Vehicular Technology Conference, September 25-28, 2005, Dallas, TX, USA.
- Stefan Lucks, Erik Zenner, André Weimerskirch, and Dirk Westhoff, "Entity Recognition for Sensor Network Motes", 2nd Workshop on Sensor Networks at Informatik 2005, Bonn, September 19-22, 2005.
- André Weimerskirch, Katrin Höper, Christof Paar, and Marko Wolf, "Component Identification: Enabler for Secure Networks of Complex Systems", Applied Cryptography and Network Security (ACNS) 2005, June 7-10, 2005, New York City, NY, USA.
- Jonathan Hammell, André Weimerskirch, Joao Girao, and Dirk Westhoff, "Recognition in a Low-Power Environment", WWAN 2005, The 25th IEEE International Conference on Distributed Computing Systems (ICDCS-2005), Columbus, Ohio, USA, June 6-9, 2005.
- Marko Wolf, André Weimerskirch, and Christof Paar, "Digital Rights Management Systems (DRMS) als Enabling Technology im Automobil" (Digital Rights Management Systems (DRMS) as Enabling Technology in the Automobile), Sicherheit 2005: Sicherheit - Schutz und Zuverlässigkeit, Regensburg, April 5-8, 2005.
- Ulrich Kaiser, Christof Paar, Dörte Rappe, Werner Schindler, André Weimerskirch, and Thomas Wollinger, "Kriterien für die Auswahl der kryptographischen Algorithmen bei Low-Cost-RFID-Systemen" (Criteria for the Selection of Cryptographic Algorithms for Low-Cost RFID Systems), D-A-CH Security 2005, Darmstadt University of Technology, 2005.
- Marko Wolf, André Weimerskirch, and Christof Paar, "Security in

Automotive Bus Systems", escar 2004 - Embedded Security in Cars Workshop, Bochum, 10.-11. November, 2004.

- André Weimerskirch, Marko Wolf, and Christof Paar, "Komponentenidentifikation: Voraussetzung für IT-Sicherheit im Automobil" (Component Identification: Enabler for IT-Security in the Automobile), Automotive - Safety & Security 2004, Stuttgart, 6.-7. October, 2004.
 - Marko Wolf, André Weimerskirch, and Christof Paar, "Sicherheit in automobilen Bussystemen" (Security in Automotive Bus Networks), Automotive - Safety & Security 2004, Stuttgart, 6.-7. October, 2004.
 - Christof Paar, Jan Pelzl, Kai Schramm, André Weimerskirch and Thomas Wollinger, "Eingebettete Sicherheit: State-of-the-art" (Embedded Security: State-of-the-art), D-A-CH Security 2004, University of Basel, March 30-31, 2004.
 - André Weimerskirch, "Authentifikation in Ad-hoc und Sensornetzwerken" (Authentication in Ad-hoc and Sensor Networks), GUUG-Frühjahrsfachgespräch 2004, Ruhr-Universität Bochum, March 9-12, 2004.
 - Sandeep Kumar, Marco Girimondo, André Weimerskirch, Christof Paar, Arun Patel, and Arvinderpal S.Wander, "Embedded End-to-End Wireless Security with ECDH Key Exchange", 46th IEEE Midwest Symposium On Circuits and Systems, December 27-30, 2003, Cairo, Egypt.
 - André Weimerskirch and Dirk Westhoff, "Identity Certified Authentication for Ad-hoc Networks", 2003 ACM Workshop on Security of Ad Hoc and Sensor Networks (SASN '03), October 31, 2003.
 - André Weimerskirch and Dirk Westhoff, "Zero Common-Knowledge Authentication for Pervasive Networks", Selected Areas in Cryptography - SAC, August 14-15, 2003.
 - André Weimerskirch, Douglas Stebila, and Sheueling Chang Shantz, "Generic GF(2^m) Arithmetic in Software and its Application to ECC", The Eighth Australasian Conference on Information Security and Privacy (ACISP 2003), 9-11 July 2003, Wollongong, Australia.
 - Olivier Pelletier, André Weimerskirch, "Algorithmic Self-Assembly of DNA Tiles and its Application to Cryptanalysis", The Genetic and Evolutionary Computation Conference 2002 (GECCO 2002), July 9-13, 2002, New York City, USA.
 - André Weimerskirch and Gilles Thonet, "A Distributed Light-Weight Authentication Model for Ad-hoc Networks", The 4th International Conference on Information Security and Cryptology (ICISC 2001), December 6-7, 2001, Seoul, South Korea.
 - André Weimerskirch, Christof Paar, and Sheueling Chang Shantz, "Elliptic Curve Cryptography on a Palm OS Device", The 6th Australasian Conference on Information Security and Privacy (ACISP 2001), July 11-13 2001, Sydney, Australia.
- Magazine Articles
- Andrey Bogdanov, Christof Paar, André Weimerskirch and Thomas Wollinger, "Embedded Security in Next-Generation Civilian and Government Systems", Safety and Security International, 2008.
 - André Weimerskirch and Christof Paar, „Was der ISM über Embedded Security wissen sollte“, Information Security Management – Das Praxishandbuch, TÜV Media, 2007.

	<ul style="list-style-type: none"> • Marko Wolf, André Weimerskirch, and Christoph Wegener, "Rechte für Kleine – Digital Rights Management in mobilen und eingebetteten Geräten“, iX, 1/2006. • Marko Wolf, André Weimerskirch, and Christof Paar, "Digitale Rechteverwaltung" (Digital Rights Management), Elektronik Automotive, 2/2005 • André Weimerskirch and Christof Paar, "Sicherheit schlicht verpennt" (Security Simply Overslept), Automobil Elektronik, 02.2005. • André Weimerskirch and Prof. Paar, "Der digitale Goldesel - DRM im Automobil" (The Digital Cash Cow - DRM in the Automobile), Automobil Elektronik, December 2004. • André Weimerskirch and Christof Paar, "IT-Sicherheit in Geoinformations-Systemen" (IT-Security in Geoinformations Systems), GeoBit, 2004. • André Weimerskirch and Christof Paar, "Embedded Security in Geoinformation Systems", Geoinformatics Magazine, 2004.
<p>Technical Reports</p>	<ul style="list-style-type: none"> • Frank Kargl, Ioannis Krontiris, André Weimerskirch, Ian Williams, and Natasa Trkulja, "Privacy Protection of Automated and Self-Driving Vehicles", Report from Dagstuhl Seminar 22042, January 23-28, 2022. • Matthew Alt, et al., "Design Flaws and Security Considerations for Telematics and Infotainment Systems", IEEE Center for Secure Design, May 30, 2017. • Stefan Lucks, Erik Zenner, André Weimerskirch, and Dirk Westhoff, "Concrete Security for Entity Recognition: The Jane Doe Protocol (Full Paper)", IACR ePrint Archive, 2009/175, 2009. • André Weimerskirch and Christof Paar, "Generalizations of the Karatsuba Algorithm for Efficient Implementations", 2003.
<p>Theses</p>	<ul style="list-style-type: none"> • André Weimerskirch, "Authentication in Ad-hoc and Sensor Networks", Ph.D. Thesis, Ruhr-University of Bochum, Germany, July 2004. • André Weimerskirch, "The Application of the Mordell-Weil Group to Cryptographic Systems", MS Thesis, Worcester Polytechnic Institute, Worcester, MA, USA, May 2001.
<p>Other Publications (not related to data security)</p>	<ul style="list-style-type: none"> • Armin Scholl and André Weimerskirch, "Robuste Projektplanung auf der Grundlage des Linear Time-Cost Tradeoff-Problems" (Robust Project Scheduling Based on the Linear Time-Cost Tradeoff Problem), Schriften zur Quantitativen Betriebswirtschaftslehre, 10/99, November 1999.
<p>Patents</p>	<ul style="list-style-type: none"> • Di Ma and Andre Weimerskirch, "Hash-chain based sender identification scheme", United States Patent Application 20190288849. • William D. Hass, Lars Wolleschensky, Andre Weimerskirch, and David C. Bares, "Vehicle communication network and method", United States Patent Application 20190372944. • Andre Weimerskirch, "Vehicle communication network", United States Patent Application 20180322711. • Andre Weimerskirch, "System and method for privacy protection of seating biometrics", United States Patent Application 20180293401. • Younes El Hajjaji El Idrissi, Andre Weimerskirch, "System and method for

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MEMBER and
EDITOR**

secure communications between controllers in a vehicle network”, Patent number 10218499.

- John M. Maddox, James R. Sayer, Andre Weimerskirch, “Vehicle interface docking system for DSRC-equipped user devices in a vehicle”, United States Patent Application 20160105539.
- André Weimerskirch, "Method and apparatus for preventing noise from influencing a random number generator based on flip-flop meta-stability", United States Patent Application 20030101205.
- André Weimerskirch, "Method and apparatus to prevent the unauthorized copying of digital information", United States Patent Application 20030088775.
- Laszlo Hars, Antonius Staring, and André Weimerskirch, "Apparatus and methods for attacking a screening algorithm based on partitioning of content", United States Patent Application 20020152172.

- Co-organizer of 2023 Dagstuhl Seminar “Privacy Protection of Automated and Self-Driving Vehicles”, June 11-16, 2023, Schloss Dagstuhl, Germany.
- Co-organizer of 2022 Dagstuhl Seminar “Privacy Protection of Automated and Self-Driving Vehicles”, January 23-28, 2022, Schloss Dagstuhl, Germany.
- Founder and Steering Committee of the annual escar USA (escar Embedded Security in Cars Conference, USA).
- Co-Editor of SAE International Journal of Transportation Cybersecurity and Privacy.
- Technical Program Committee Co-Chair of 2020 IEEE Vehicular Networking Conference (VNC), December 16-18, 2020.
- Co-Organizer of SAE ComVEC Cybersecurity Session, 2015-2017.
- Program Committee of dozens of international workshops on cybersecurity and privacy.
- General Co-Chair of VANET 2010 (The Seventh ACM International Workshop on VehiculAr Inter-NETworking), In conjunction with ACM Mobicom 2010, Chicago, USA.
- General Co-Chair of VANET 2009 (The Sixth ACM International Workshop on VehiculAr Inter-NETworking), In conjunction with ACM MobiCom 2009, Beijing, China.

REVIEWER

- Evaluator for the European commission as well as for European ministries.
- Reviewer of dozens of peer reviewed journals, conferences, and workshops.

TEACHING

- Short-course at University of Michigan: Connected and Automated Vehicle – Cybersecurity
- Held several courses and workshops for industry including Daimler, TUV, Ford, and Toyota:
 - Introduction to Cryptography
 - Elliptic Curve Cryptography
 - Secure Car-to-Car Communication
 - Trusted Hardware in Embedded Systems

CITIZENSHIP

- Automotive cybersecurity and privacy

American and German citizen