

ANDRÉ WEIMERSKIRCH, Ph.D., MBA

PRODUCT SECURITY & SAFETY LEADER | AUTOMOTIVE CYBERSECURITY | ENGINEERING

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EXECUTIVE PROFILE

Product security, safety, and engineering leader with 20+ years of experience building and transforming global organizations across automotive cybersecurity, functional safety, platform software, AI-enabled cybersecurity, and connected-vehicle technologies. Combines executive-scale leadership with hands-on expertise. As Vice President at Lear, led a 250+ person organization across four continents supporting electronics businesses with \$1.5B+ in annual revenue, and regularly reported to the Board of Directors. Built product security from the ground up, advanced functional safety to ISO 26262:2018, and created global governance and support models across all leadership levels. Co-founded ESCRYPT as the first full-time employee and helped grow it to 50+ people and establish ESCRYPT as a global leader in product security and automotive cybersecurity before its acquisition by Bosch. Career also includes automotive cybersecurity research and teaching at the University of Michigan.

CORE LEADERSHIP & TECHNICAL EXPERTISE

Product Security and Safety Leadership • Automotive Electronics • ISO/SAE 21434 • Self-driving Vehicle Cybersecurity & Safety • AI for Cybersecurity Engineering • UNECE R155 • Threat Analysis & Risk Assessment (TARA) • EU Cyber Resilience Act (CRA) • Threat Modeling & Security Architecture • Security Concepts & Specifications • Functional Safety / ISO 26262 • ISO/PAS 8800 • ISO 21448 / SOTIF • PSIRT, Vulnerability Management & Disclosure • Connected Vehicle / V2V / V2X Security • EV Charging Security • Security Tool Evaluation & Deployment • AUTOSAR & Linux Platform Software • Validation & Homologation • Applied Cryptography • Engineering Transformation • Global Organization Leadership • Executive / Board Communication • Strategic Planning • M&A / Technical Due Diligence • Research & Standards

PROFESSIONAL EXPERIENCE

BLOCK HARBOR CYBERSECURITY

Oct 2024 - Present

Chief Operating Officer | Advisory Board Member (Jun 2022 - Present)

- Lead company operations, strategic execution, financial planning, and organizational development. Redesigned the operating model to clarify decision rights and accountability, substantially reducing administrative overhead and strengthening execution.
- Support product strategy for an AI-aided product cybersecurity management platform, including applying AI to cybersecurity engineering activities.
- Established an AI-first culture and operating model and encouraged broad use of AI tools. Refocused the company on customer value and fail-fast learning while establishing a values-based culture and stronger financial planning.
- Work hands-on with OEMs and suppliers on product cybersecurity engineering, supporting customers with process definition and technical deliverables to meet ISO/SAE 21434, UNECE R155 and EU Cyber Resilience Act (CRA) requirements. Develop Threat Analysis & Risk Assessments (TARAs), security concepts and specifications, establish vulnerability disclosure programs, perform threat modeling, design secure system architectures, and apply AI-enabled security tools where appropriate.
- Apply this expertise across automotive, commercial vehicles, agricultural vehicles, and EV charging security.

LEAR CORPORATION | Ann Arbor, MI

Aug 2016 - Sep 2024

Vice President - Product Integrity & Technologies

- Led a 250+ person global organization across the United States, Spain, India, Morocco, the Philippines, and China spanning product security, functional safety, platform software, validation, homologation, and DFM; supported all electronics product units representing more than \$1.5 billion in annual revenue and regularly reported to the Board of Directors.
- Product security: built Lear's product-security function and ISO/SAE 21434 capability from the ground up; established global policies, approval mechanisms, product-release gates, PSIRT, incident response, vulnerability management, metrics, dashboards, training, and awareness.
- Functional safety: upgraded processes and governance to ISO 26262:2018; strengthened policies, approval mechanisms, and safety gates; globalized the team structure and strategy; and created a flexible expert task force that deployed into programs requiring additional support.
- Security and safety governance: integrated product security and functional safety into the corporate safety committee, trained executive leadership, and established a support and governance model across all electronics product units including telematics, gateways, central computing platforms, battery management systems, on-board chargers, battery disconnect units, body controllers, seating controllers, and headlight modules.
- Platform software: established a strategy and process to harmonize electronics components and created an in-house reusable AUTOSAR/Linux reference platform across product lines, significantly reducing non-recurring engineering cost.
- Validation and organizational transformation: centralized global homologation and DFM efforts, led global engineering-footprint strategy including validation test labs, sponsored a technical career path, rolled out scorecards and career planning, strengthened manager ownership, improved cross-region collaboration, and led a shift-left initiative to reduce late development issues.

ADDITIONAL PROFESSIONAL EXPERIENCE

UNIVERSITY OF MICHIGAN / UMTRI | Ann Arbor, MI

Adjunct Associate Research Scientist | Concurrent academic appointment

Aug 2018 - Present

- Serve as adjunct faculty and co-chair of the CCAT cybersecurity working group, defining and guiding research projects on automated and self-driving vehicle cybersecurity and safety.
- Contribute to research on security and safety risks of self-driving vehicles.

Associate Research Scientist

Jan 2014 - Jul 2016

- Founded UMTRI's cybersecurity and privacy team and secured approximately \$1M annually in federal and industry-sponsored research awards.
- Established standardized automotive security testing.
- Co-chaired the Mcity cybersecurity working group.
- Served as principal investigator/task-order lead on DHS and NHTSA research covering secure software updates, automotive intrusion detection, firmware-update cybersecurity, heavy-vehicle cybersecurity, and automotive cybersecurity guidelines.
- Led sponsored and proprietary cybersecurity work for car manufacturers, Tier-1 suppliers, and aftermarket suppliers, including security strategy roadmaps, secure software-update design and deployment, penetration testing, secure in-vehicle communication, and cybersecurity technology evaluation.

ESCRYPT GMBH / ESCRYPT INC. | Germany / United States / Asia

2004 - Dec 2013

Co-Founder & CTO; CEO, ESCRYPT Inc.

- Co-founded ESCRYPT as its first full-time employee and helped grow the company to 50+ people and establish it as a global leader in both product security and automotive cybersecurity before its 2012 acquisition by Bosch.
- Led all business activities in North America and Asia, including offices in the United States, Korea, and Japan, while contributing to global company strategy and operations.
- Built and commercialized expertise in automotive and embedded cybersecurity, secure vehicle communication, and applied cryptography.

INDEPENDENT CONSULTING (CONCURRENT ADVISORY WORK)

Jan 2014 - Present

Consultant

- Provide selected strategic consulting and technical due diligence alongside primary roles, supporting acquisition-target identification and company acquisition decisions.
- Provide technical consulting in automotive on-board cybersecurity and connected-vehicle communication security.

EARLIER RESEARCH & TECHNICAL EXPERIENCE

RUHR UNIVERSITY BOCHUM, GERMANY

Oct 2001 - Aug 2004

Research Assistant

- Completed Ph.D. research in pervasive and embedded security, including mobile, ad-hoc and sensor networks, cryptographic protocols, efficient arithmetic, and applied cryptography; taught and supervised students and led industry projects.

AARHUS UNIVERSITY, DENMARK

Feb 2003 - Aug 2003

Researcher (EU fellowship)

- Conducted full-time Ph.D. research on security protocols for embedded systems and ad-hoc networks.

SUN MICROSYSTEMS LABORATORIES, MOUNTAIN VIEW, CA

Jul 2002 - Sep 2002

Researcher (internship)

- Researched efficient next-generation cryptography and implemented elliptic-curve cryptography for a software library.

JOSTEIT, HERTEN & PARTNER, GERMANY

Jan 2002 - Jun 2002

IT Consultant (part-time)

- Consulted on PKI, Internet and application security, and vulnerability assessments.

ACCENTURE, SOPHIA ANTIPOLIS, FRANCE

Jun 2001 - Sep 2001

Researcher (internship)

- Analyzed wireless-network security, modeled security policies, and developed a biometric access-control mechanism.

WORCESTER POLYTECHNIC INSTITUTE, MA

Aug 2000 - May 2001

Research Assistant

- Conducted master's research in cryptography, contributed to an industry project, and helped organize a large conference.

PHILIPS RESEARCH, BRIARCLIFF MANOR, NY

May 2000 - Jul 2000

Researcher (internship)

- Worked on digital-music copy protection, analyzed a hardware random-number generator, and studied DES cryptanalysis methods.

DEUTSCHE POST AG, GERMANY

Feb 1997 - Jul 1999

Web Developer (part-time)

- Built a Lotus Notes intranet and developed workflow, workgroup, and database applications.

DARMSTADT UNIVERSITY OF TECHNOLOGY, GERMANY

Oct 1998 - Jul 1999

Notes Developer / Teaching Assistant

- Implemented Novell/Lotus Notes systems and workflows; served as teaching assistant for Operating Systems.

SIEMENS AG, GERMANY

Mar 1996 - Nov 1996

Network Administrator (part-time)

- Administered a Windows NT network, maintained e-mail systems, and troubleshoot LAN systems.

AGREVO AG, GERMANY

May 1995 - Jun 1995

Network Administrator (internship)

- Administered network and Microsoft Mail systems, installed equipment, and upgraded software.

EDUCATION**MBA / Executive MBA**

2008 - 2013

Henley Business School, Greenlands, England

Master of Business Administration, October 2013; completed part-time in parallel with full-time employment.

Dr.-Ing. (Ph.D.), Electrical Engineering & Information Technology

2001 - 2004

Ruhr University Bochum, Germany

Thesis: Authentication in Ad-hoc and Sensor Networks. Advisor: Prof. Christof Paar; Reader: Prof. Jean-Pierre Hubaux.

M.S., Computer Science

1999 - 2001

Worcester Polytechnic Institute, MA

Thesis: The Application of the Mordell-Weil Group to Cryptographic Systems. GPA: 4.0/4.0.

Business Administration & Computer Science; Mathematics

1995 - 1999

Darmstadt University of Technology, Germany

Double major in Business Administration and Computer Science; second major in Mathematics. Ranked first in BA/CS pre-diploma cohort.

SPONSORED RESEARCH & SELECTED INDUSTRY PROJECTS**Federal / Publicly Sponsored Research**

- **Secure Software Update Over-the-Air for Ground Vehicles Specification and Prototype** — Principal Investigator; U.S. Department of Homeland Security Science & Technology; 2015–2017; \$1,246,134. Led UMTRI and Southwest Research Institute in developing requirements, a secure OTA-update design and reference implementation, test/evaluation methods, and best-practice guidance intended as an industry-wide solution; engaged automotive stakeholders representing approximately 75% of the U.S. passenger-vehicle market.
- **Anomaly Detection Project** — Task Order Lead; NHTSA/DOT; 2015–2016; \$457,102 recommended project scope, with optional configurations up to \$707,665. Evaluated commercial automotive intrusion-detection/prevention systems with Ford, General Motors, Silent Cyber, and security vendors; developed a reusable real-vehicle test environment, test methodology, and best-practice guidance.
- **Cybersecurity of Firmware Updates** — Task Order Lead; NHTSA/DOT; 2015–2016. Led research on automotive firmware-update mechanisms, cross-industry practices, cybersecurity risk assessment, mitigation mechanisms, intellectual-property and counterfeit implications, and automotive-platform case studies with University of Michigan-Dearborn and Volkswagen.
- **Cybersecurity Research Considerations for Heavy Vehicles** — Task Order Lead; NHTSA/DOT; 2015–2016. Developed a framework comparing passenger- and heavy-vehicle cybersecurity across lifecycle, threats and risks, fleet management, electronic systems, control applications, countermeasures, and industry practices, identifying gaps and research needs.
- **Automotive Cybersecurity Guidelines Development Support** — Task Order Lead; NHTSA/DOT; 2016; 12-month task order. Led development of initial light-vehicle cybersecurity guidance, including review of global standards and guidelines, a guideline framework, and a cybersecurity lifecycle approach; project partners included University of Michigan-Dearborn, Fiat Chrysler Automobiles, and Volkswagen.

Industry-Sponsored Research

- **Intrusion Detection System Analysis** — Principal Investigator; Fiat Chrysler Automobiles; 2015; \$309,943. Conducted market analysis and real-vehicle evaluation of automotive intrusion-detection/prevention technologies and recommended future approaches.
- **Secure Network with Intrusion Detection Mechanisms** — Principal Investigator; Ford Motor Company; 2015–2017; \$200,000. Designed and evaluated secure in-vehicle authentication and automotive intrusion-detection/prevention approaches.
- **Automotive Cybersecurity Test Lab** — Principal Investigator; Mobility Transformation Center; 2014–2016; \$99,992. Established an automotive cybersecurity test lab and conducted initial penetration testing of a passenger vehicle.
- **Additional industry-sponsored and proprietary projects** — Performed cybersecurity research and development for car manufacturers, Tier-1 suppliers, and automotive aftermarket suppliers, including security-strategy roadmaps, secure software-update mechanisms, penetration testing, secure communication, and evaluation of cybersecurity technologies.

ADVISORY BOARDS

- DOE funded project – Cybersecurity in advanced reactor fleet by cyber-informed design, real-time anomaly detection, dynamic monitoring, and cost-effective mitigation strategies
- PIVOT Technical Advisory Board
- 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 & 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.

SELECTED INVITED TALKS

- André Weimerskirch, "The Trajectory of Automotive Cybersecurity and the Role of AI", VehicleSec '26, August 10-11, 2026, Baltimore, MD, USA.
- André Weimerskirch, "V2V Communication Security: A Privacy Preserving Design for 300 Million Vehicles", Workshop on Cryptographic Hardware and Embedded Systems (CHES) 2014, September 13-26, 2014, Busan, Korea.

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 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.

Conference Papers

- Atefeh Asayesh, Minha Mir, and Andre Weimerskirch, "Collaborative Risk-Sharing Framework for Automotive Cybersecurity", escar USA 2025, May 21-22, 2025, Plymouth, MI, USA.
- 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 Kuppasamy, 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, "Authentikation 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(2m) 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.
- 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 Golddesel - 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.

Technical Reports

- 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.

Theses

- 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.

Other Publications (not related to data security)

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- 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.

PROFESSIONAL SERVICE - COMMITTEE & EDITORIAL ROLES

- 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
- Automotive cybersecurity and privacy

CITIZENSHIP

U.S. and German citizen