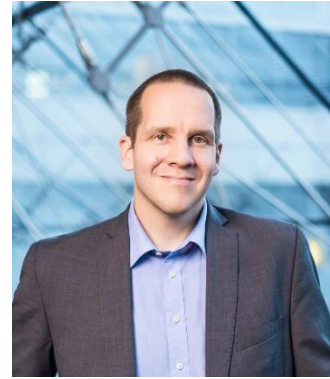


Dr.-Ing. Andreas Braun

04.10.1982, Aschaffenburg, Germany, married



Contact

Kiesstr. 21

68519 Viernheim

Email: me@andreasbraun.name

Phone: +49 172 190 3214

Website: <http://www.andreasbraun.name>

Education

- 2014 **Doktor-Ingenieur (Doctorate of Engineering) - Computer Science**
Technische Universität Darmstadt
Thesis title: Application and validation of capacitive proximity sensing systems in smart environments (summa cum laude)
- 2010 **Master of Science - Computational Engineering**
Technische Universität Darmstadt
Thesis title: Modeling of Input Devices for Natural Interaction from Low-Level Capacitive Proximity Sensor Data
- 2008 **Bachelor of Science - Computational Engineering**
Technische Universität Darmstadt
Thesis title: Development and Evaluation of an object recognition for box tree cuttings

Work experience

- 2015 - present **Head of the Competence Center for "Smart Living & Biometric Technologies" at the Fraunhofer Institute for Computer Graphics Research IGD**
- Team management of three senior, six junior and twenty student researchers
 - Acquisition of industry & research projects
- 2016 - present **Independent Technical Consultant for Steinbeis TIB GmbH**
- Providing independent technology evaluation, particularly for mergers & acquisitions projects
- 2010 - 2014 **Research associate in the Competence Center for "Interactive Multimedia Appliances" at the Fraunhofer Institute for Computer Graphics Research**
- Coordination and task lead in international joint projects
 - Research in the field of interaction in smart environments, smart furniture, indoor localization, virtual coaching.
- 2008 - 2009 **Research assistant in the Competence Center for "Interactive Multimedia Appliances" at the Fraunhofer Institute for Computer Graphics Research**
- Research in sensor data analysis and design of interaction systems

Professional positions & Memberships

- 2016 - present **Participation in biometrics standardization bodies**
- ISO/IEC JTC1 SC37 Biometrics
 - DIN NIA 37 Biometrie
- 2016 - present **Principal Investigator at Center for Research in Security and Privacy CRISP, Darmstadt**
- Representative of Fraunhofer IGD in teaching & professional education, industry transfer, and international collaboration
- 2016 - present **Vice-Spokesperson Fraunhofer AAL Alliance**
- Strategic Collaboration of 11 Fraunhofer Institutes in the domains of Personal Health and Ambient Assisted Living
- 2014 - present **Lecturer (Lehrbeauftragter) at Technische Universität Darmstadt**
- Integrated course - Ambient Intelligence
 - Until 2016: Seminar - Multimodal Interaction
- 2016 - present **Membership European Association of Biometrics EAB**
Membership TeleTrusT - Bundesverband IT-Sicherheit e.V. (German association of institutions working in IT security)

Projects

- 2017 - present **Runder Tisch Cybersicherheit (Round Table Cybersecurity) - Hessisches Ministerium des Inneren und für Sport (funding €215.000)**
- Collaboration of four research entities in cybersecurity for the state of Hessen
 - Tasks: partner project lead
- 2017 - present **CRISP Initiativprojekt 3 (third main project of the research center CRISP) - Bundesministerium für Bildung und Forschung (federal ministry of education and research (funding €253.000)**
- Developing safe and reliable processing for cloud-based infrastructure
 - Tasks: developing prototypes for secure and privacy-preserving infrastructure in smart buildings
- 2017 - present **BioStandard - Bundesamt für Sicherheit in der Informationstechnik (Federal office for information security) (funding €473.000)**
- Supporting standardisation in biometrics in national, European and international entities
 - Tasks: contributions to DIN, CEN, and ISO/IEC standards
- 2017 - present **ACTIVAGE - Horizon 2020 (funding €750.000)**
- Large-scale piloting of IoT systems in smart living
 - Tasks: partner project management
- 2014 - 2017 **Miraculous Life - EC Seventh Framework Programme (funding €258.000)**
- Affective Avatars for improving the well-being of seniors
 - Tasks: Work Package Lead Dissemination and Exploitation
- 2013 - 2017 **POSEIDON - EC Seventh Framework Programme (funding €626.000)**
- Personalized Smart Environment for People with Down's Syndrome
 - Tasks: technical coordination, work package lead
- 2013 - present **EIT Digital - Knowledge & Innovation Community of the EIT (funding €435.000)**
- Tasks: leading subtasks in several projects of the action lines Health & Wellbeing, Smart Spaces and Smart Energy Systems

Skills

Languages	German - native English - C2 - proficient user French - B1 - independent user
Further Education	Project Management Professional Certified Requirements Engineer (Foundation Level)
Computers & Programming	OS: Windows, Linux Programming Languages: C#, Python, Java, C++ Machine Learning Frameworks: WEKA, Keras, OpenCV

Organization & Review

Conference & Workshop Organization

- Aml - European Conference on Ambient Intelligence (Program Chair) - 2017
- AFFIN - Workshop on Affective Interaction with Avatars (Workshop Chair) - 2015
- EISVC - Workshop on Empowering and Integrating Senior Citizens with Virtual Coaching (Workshop Chair) - 2012

Technical Program Committee Member

- DAPI - Distributed, Ambient, and Pervasive Interactions - since 2016
- ANT - Ambient Systems, Networks and Technologies - since 2016
- BIOSIG - since 2016
- iWOAR - International Workshop on Sensor-based Activity Recognition and Interaction - since 2017
- EvAAL - Evaluating AAL Systems - 2012

Review (excerpt)

- CHI - 2016
- IEEE Transactions on Human-Machine Systems - since 2015
- AutoUI - since 2014
- IEEE Transaction on Neural Systems & Rehabilitation Engineering - since 2016
- Journal of Ambient Intelligence and Smart Environments - since 2014
- MDPI Sensors - since 2016
- Journal of Ambient Intelligence and Humanized Computing - since 2017
- Engineering Applications of Artificial Intelligence - since 2018

Publications (excerpt)

the most current overall list can be found on my Google Scholar site:

<https://scholar.google.de/citations?user=CralCooAAAAJ>

2015 - A. Braun, R. Wichert, A. Kuijper, D. Fellner - Capacitive Proximity Sensing in Smart Environments - Journal of Ambient Intelligence and Smart Environments

2017 - O. Henniger, N. Damer, A. Braun - Opportunities for Biometric Technologies in Smart Environments - Ambient Intelligence 2017

2014 - A. Braun, S. Neumann, S. Schmidt, R. Wichert, A. Kuijper - Towards Interactive Car Interiors - the Active Armrest - NordiCHI 2014

2015 - A. Braun, S. Frank, M. Majewski, X. Wang - CapSeat - Capacitive Proximity Sensing for Automotive Activity Recognition - AutomotiveUI 2015

2015 - A. Braun, I. Schembri, S. Frank - ExerSeat - Sensor-Supported Exercise System for Ergonomic Microbreaks - Ambient Intelligence 2015

Invited Talks

Applications of machine learning in physiological monitoring (keynote) - International Conference in Technology and Innovation in Sports - Thessaloniki, June 2018

Opportunities and limitations of biometrics in access control - Symposium Anlagensicherung TÜV Nord - Hamburg, February 2018

Biometric Technologies - ZVEI Kolloquium - Frankfurt, November 2017

Home Care Technologies - Round Table Internet Health - Berlin, September 2017

Authentifizierung und Biometrie im Alltag - Gaming Summit - Berlin, June 2017

Secure Health Assistance Using Mobile Sensors - CeBIT Future Talk - Hannover, March 2017

Biometrie und Zugangskontrolle - Fachverband Spielhallen Jahreshauptversammlung - Berlin, November 2016

Invisible Sensing Technologies in Automotive Seating - Global Automotive Seating Innovators - Barcelona, October 2016

Invisible Sensing for Car Interiors - Interior Design - Stuttgart, March 2016

Opportunities of invisible, integrated sensing systems in car seats - Innovative Seating - Düsseldorf, February 2016

Invisible sensing technologies for car seats - Automotive Seating Summit - Berlin, September 2015

CapSeat - Integrated Sensing for Driver Assistance and Physiological Monitoring - CTI Forum Automotive Seating - June 2015

V2me -Virtual Coach Reaches Out to me - Tagung AAL Fachverbände für Menschen mit Behinderung - Berlin, October 2014

Patents

DE 10 2011 083 438.9 - Sensoranordnung zur Bestimmung des Zustands einer Person auf einem Untergrund (pending) -

translation: Sensor distribution for the detection of the state of a user on a surface

DE 10 2014 214 978.9 - Verfahren zur Feststellung der Identität einer Person auf einem Sitz eines Fahrzeugs (granted)

translation: Method to determine the identity of a person on the seat of a vehicle