

Fikret Basic
Technische Universität Graz
Institut für Technische Informatik (4480)



Organisationszugehörigkeiten

Technische Universität Graz
Institut für Technische Informatik (4480)
Technische Universität Graz (90000)
Graz, Österreich
1 Okt. 2023 → present

Veröffentlichungen

BACON: Improving Broadcast Audio Authentication

Gasteiger, T., Perazzo, P., Schuß, M., Boano, C. A., Basic, F., Dini, G. & Römer, K. U., 6 Dez. 2024, *2024 IEEE Military Communications Conference, MILCOM 2024*. IEEE Xplore, S. 523-529 7 S. (Proceedings - IEEE Military Communications Conference MILCOM).

Secure Data Acquisition for Battery Management Systems

Basic, F., Seifert, C., Steger, C. & Kofler, R., 19 März 2024, *Proceedings - 2023 26th Euromicro Conference on Digital System Design, DSD 2023*. Niar, S., Ouarnoughi, H. & Skavhaug, A. (Hrsg.). IEEE Xplore, S. 553-560 8 S. (Proceedings - 2023 26th Euromicro Conference on Digital System Design, DSD 2023).

Highway Hijackers: Evaluating Patch Attack Susceptibility in Autonomous Driving Lane Detection Systems

Blažević, R., Toch, A. & Basic, F., 2024, *The 3rd Workshop on Security and Privacy in Connected Embedded Systems (SPICES 2024)*. 6 S.

Next-Generation Battery Management Systems: Integrating RFID for Battery Passport Applications

Scherr, F., Basic, F., Eder, P., Steger, C. & Kofler, R., 2024, *IEEE RFID-TA 2024 – RFID Technology and Applications*.

Enabling Secure and Wireless Battery Management Systems

Basic, F., Aug. 2023, 231 S.

Trust your BMS: Designing a Lightweight Authentication Architecture for Industrial Networks

Basic, F., Steger, C., Seifert, C. & Kofler, R., Jan. 2023, *2022 IEEE International Conference on Industrial Technology (ICIT)*. 6 S.

Establishing Dynamic Secure Sessions for ECQV Implicit Certificates in Embedded Systems

Basic, F., Steger, C. & Kofler, R., 2023, *2023 Design, Automation and Test in Europe Conference and Exhibition, DATE 2023 - Proceedings*. 6 S.

Wireless BMS Architecture for Secure Readout in Vehicle and Second life Applications

Basic, F., Laube, C. R., Stratznig, P., Steger, C. & Kofler, R., 2023, *2023 8th International Conference on Smart and Sustainable Technologies, SpliTech 2023*. Solic, P., Nizetic, S., Rodrigues, J. J. P. C., Rodrigues, J. J. P. C., Rodrigues, J. J. P. C., Lopez-de-Ipina Gonzalez-de-Artaza, D., Perkovic, T., Catarinucci, L. & Patrono, L. (Hrsg.). IEEE

A Novel Secure NFC-based Approach for BMS Monitoring and Diagnostic Readout

Basic, F., Laube, C. R., Steger, C. & Kofler, R., 19 Mai 2022, *2022 IEEE International Conference on RFID, RFID 2022*. ACM/IEEE, S. 23-28 6 S. 9795979

Poster: Establishing Dynamic Secure Sessions for Intra-Vehicle Communication Using Implicit Certificates
Basic, F., Steger, C. & Kofler, R., 2022.

Secure and Trustworthy NFC-based Sensor Readout for Battery Packs in Battery Management Systems
Basic, F., Gaertner, M. & Steger, C., 2022, in: IEEE Journal of Radio Frequency Identification. 6, S. 637-648 12 S., 9763024.

Embedded Platform Patterns for Distributed and Secure Logging
Basic, F., Steger, C. & Kofler, R., 2021, *Proceedings of the European Conference on Pattern Languages of Programs, EuroPLoP 2021*. Graz, Austria: Association of Computing Machinery, 9 S. 27. (ACM International Conference Proceeding Series).

Towards Trustworthy NFC-based Sensor Readout for Battery Packs in Battery Management Systems
Basic, F., Gärtner, M. & Steger, C., 2021, *2021 IEEE International Conference on RFID Technology and Applications, RFID-TA 2021*. Delhi, India: IEEE Publications, Band 11. S. 285-288 4 S. (2021 IEEE International Conference on RFID Technology and Applications, RFID-TA 2021).

Multi-Layered IoT System Design Towards End-to-End Secure Communication
Rech, A., Gressl, L. A., Basic, F., Steger, C., Sinnhofer, A. D. & Seifert, C., 18 Okt. 2020, *Proceedings - IECON 2020: 46th Annual Conference of the IEEE Industrial Electronics Society*. S. 2213-2220 8 S. 9254556. (IECON Proceedings (Industrial Electronics Conference); Band 2020-October).

SimPar - A Concurrent Simulation System for Evaluation of Power-Aware Smart Sensors
Basic, F., Okt. 2018, 117 S.

Aktivitäten

43rd IEEE International Conference on Consumer Electronics - ICCE 2025 (Veranstaltung)
Basic, F. (Peer reviewer)
11 Jan. 2025 → 14 Jan. 2025

3rd Workshop on Security and Privacy in Connected Embedded Systems, SPICES 2024
Basic, F. (Mitgliedschaft in Programmausschüssen) & Basic, F. (Vorsitzende/r)
10 Dez. 2024

Revolutionizing Autonomous Systems with Generative AI, and Large Language Models for Zero Trust Architecture: Enhancing Security, Resilience, and Safety of Systems Managing Edge Autonomous Devices
Basic, F. (Teilnehmer/-in)
12 Nov. 2024 → 13 Nov. 2024

Presenter at the GEED 2024
Basic, F. (Moderator/-in)
17 Sept. 2024 → 18 Sept. 2024

29th European Conference on Pattern Languages of Programs, People, and Practices - EuroPLoP 2024 (Veranstaltung)
Basic, F. (Peer reviewer)
3 Juli 2024 → 7 Juli 2024

Lange Nacht der Forschung 2024
Basic, F. (Teilnehmer/-in), Scherr, F. (Teilnehmer/-in) & Steger, C. (Teilnehmer/-in)
24 Mai 2024

AVL Hans List Fonds Preis Award Ceremony

Basic, F. (Redner/-in)
16 Okt. 2023

Didaktik-Werkstatt 2023 Get Together

Basic, F. (Redner/-in)
16 Okt. 2023

Rigorosum - Enabling Secure and Wireless Battery Management Systems

Basic, F. (Redner/in)
25 Sept. 2023

Secure Data Acquisition for Battery Management Systems

Basic, F. (Redner/in)
7 Sept. 2023

26th Euromicro Conference on Digital System Design (DSD) and 49th Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA)

Basic, F. (Vorsitzende/r)
6 Sept. 2023 → 8 Sept. 2023

Wireless BMS Architecture for Secure Readout in Vehicle and Second life Applications

Basic, F. (Redner/in)
22 Juni 2023

8th International Conference on Smart and Sustainable Technologies

Basic, F. (Teilnehmer/-in)
20 Juni 2023 → 23 Juni 2023

Establishing Dynamic Secure Sessions for ECQV Implicit Certificates in Embedded Systems

Basic, F. (Redner/in)
18 Apr. 2023

2023 Design, Automation & Test in Europe Conference & Exhibition

Basic, F. (Teilnehmer/-in)
17 Apr. 2023 → 19 Apr. 2023

Didaktik Werkstatt 2023: Ein Fortbildungsprogramm der Steirischen Hochschulkonferenz zur Hochschuldidaktik

Basic, F. (Teilnehmer/-in)
5 Feb. 2023 → 15 Juni 2023

Poster: Establishing Dynamic Secure Sessions for Intra-Vehicle Communication Using Implicit Certificates

Basic, F. (Redner/in)
4 Okt. 2022 → 5 Okt. 2022

Trust your BMS: Designing a Lightweight Authentication Architecture for Industrial Networks

Basic, F. (Redner/in)
25 Aug. 2022

Higher Education Didactics 1: Basics of Teaching and Learning

Basic, F. (Teilnehmer/-in)
4 Juli 2022 → 5 Juli 2022

A Novel Secure NFC-based Approach for BMS Monitoring and Diagnostic Readout

Basic, F. (Redner/in)

18 Mai 2022

2021 IEEE International Conference on RFID Technology and Applications (RFID-TA)

Basic, F. (Redner/in)
8 Okt. 2021

EuroPLoP'21: 26th European Conference on Pattern Languages of Programs

Basic, F. (Redner/in)
7 Juli 2021 → 11 Juli 2021

Auszeichnungen

AVL Hans List Fonds Preis 2023

Basic, F. (Empfänger/-in), Okt. 2023

Best Paper Presentation Award

Basic, F. (Empfänger/-in), 25 Aug. 2022

ITalent South-East 2018

Basic, F. (Empfänger/-in), 2018

Scientist of the Year 2024

Basic, F. (Empfänger/-in), Okt. 2024

Zertifikat für abgeschlossene Didaktik-Werkstatt 2023 für Hochschullehrende

Basic, F. (Empfänger/-in), 16 Okt. 2023

Presse/Medien

Gost: Fikret Bašić, Kladuščanin je koji živi i radi u Austriji (Guest: Fikret Bašić, a native of Kladuša who lives and works in Austria)

Basic, F.

7/11/23

1 Objekt von Medienberichte

Kleine Zeitung: Lockruf für den IT-Nachwuchs

Basic, F.

14/05/19

1 Objekt von Medienberichte

Projekte

Hardware/Software-Codesign

Steger, C. (Teilnehmer (Co-Investigator)), Seifert, C. (Teilnehmer (Co-Investigator)), Stelzer, P. (Teilnehmer (Co-Investigator)), Fiala, G. (Teilnehmer (Co-Investigator)) & Basic, F. (Teilnehmer (Co-Investigator))

1/01/95 → 31/12/24

Intelligent & Networked Embedded Systems

Boano, C. A. (Teilnehmer (Co-Investigator)), Römer, K. U. (Teilnehmer (Co-Investigator)), Schuß, M. (Teilnehmer (Co-Investigator)), Cao, N. (Teilnehmer (Co-Investigator)), Saukh, O. (Teilnehmer (Co-Investigator)), Hofmann, R. (Teilnehmer (Co-Investigator)), Stocker, M. (Teilnehmer (Co-Investigator)), Schuh, M. P. (Teilnehmer (Co-Investigator)), Papst, F. (Teilnehmer (Co-Investigator)), Salomon, E. (Teilnehmer (Co-Investigator)), Brunner, H. (Teilnehmer (Co-Investigator)), Gallacher, M. (Teilnehmer (Co-Investigator)), Mohamed Hydher, M. H. (Teilnehmer (Co-Investigator)), Wang, D. (Teilnehmer (Co-Investigator)), Corti, F. (Teilnehmer (Co-Investigator)), Krisper, M. (Teilnehmer (Co-Investigator)), Basic, F. (Teilnehmer (Co-Investigator)) & Petrovic, K. (Teilnehmer (Co-Investigator))

1/09/13 → 31/12/24

OPEVA - Optimierung der Autonomie von Elektrofahrzeugen

Steger, C. (Teilnehmer (Co-Investigator)), Basic, F. (Teilnehmer (Co-Investigator)), Bürgel, V. (Teilnehmer (Co-Investigator)), Eder, P. (Teilnehmer (Co-Investigator)), Macher, G. (Teilnehmer (Co-Investigator)), Finsterbusch, A. (Teilnehmer (Co-Investigator)) & Scherr, F. (Teilnehmer (Co-Investigator))

1/01/23 → 31/12/25

Smart GigaWood - Innovativer digitalisierter Hochleistungswagon für Holz und weitere KV Module

Steger, C. (Teilnehmer (Co-Investigator)), Basic, F. (Teilnehmer (Co-Investigator)) & Feldbacher, M. (Teilnehmer (Co-Investigator))

1/04/18 → 31/03/20

SPiDR2 - Sichere, leistungsfähige, intelligente, zuverlässige und widerstandsfähige drahtlose Systeme

Schuh, M. P. (Teilnehmer (Co-Investigator)), Boano, C. A. (Teilnehmer (Co-Investigator)), Gallacher, M. (Teilnehmer (Co-Investigator)), Basic, F. (Teilnehmer (Co-Investigator)) & Schuß, M. (Teilnehmer (Co-Investigator))

7/01/25 → 6/01/28

SPiDR - Sichere, leistungsfähige, zuverlässige und widerstandsfähige drahtlose Mesh-Netzwerke

Römer, K. U. (Teilnehmer (Co-Investigator)), Schuß, M. (Teilnehmer (Co-Investigator)), Boano, C. A. (Teilnehmer (Co-Investigator)), Gallacher, M. (Teilnehmer (Co-Investigator)), Schuh, M. P. (Teilnehmer (Co-Investigator)) & Basic, F. (Teilnehmer (Co-Investigator))

1/07/21 → 31/12/24

2024	Lorem ipsum dolor sit amet
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