

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

### **Secure Data Acquisition for Battery Management Systems**

Basic, F., Seifert, C., Steger, C. & Kofler, R., 5 Sept. 2023, (Angenommen/In Druck) *2023 26th Euromicro Conference on Digital System Design (DSD)*. IEEE Xplore, 8 S.

### **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.). Institute of Electrical and Electronics Engineers

### **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**

### **AVL Hans List Fonds Preis Award Ceremony**

Fikret Basic (Redner/-in)  
16 Okt. 2023

### **Didaktik-Werkstatt 2023 Get Together**

Fikret Basic (Redner/-in)  
16 Okt. 2023

### **Rigorosum - Enabling Secure and Wireless Battery Management Systems**

Fikret Basic (Redner/in)  
25 Sept. 2023

### **Secure Data Acquisition for Battery Management Systems**

Fikret Basic (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)**

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

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

Fikret Basic (Redner/in)  
22 Juni 2023

### **8th International Conference on Smart and Sustainable Technologies**

Fikret Basic (Teilnehmer/-in)  
20 Juni 2023 → 23 Juni 2023

### **Establishing Dynamic Secure Sessions for ECQV Implicit Certificates in Embedded Systems**

Fikret Basic (Redner/in)  
18 Apr. 2023

### **2023 Design, Automation & Test in Europe Conference & Exhibition**

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

**Didaktik Werkstatt 2023: Ein Fortbildungsprogramm der Steirischen Hochschulkonferenz zur Hochschuldidaktik**  
Fikret Basic (Teilnehmer/-in)  
5 Feb. 2023 → 15 Juni 2023

**Poster: Establishing Dynamic Secure Sessions for Intra-Vehicle Communication Using Implicit Certificates**  
Fikret Basic (Redner/in)  
4 Okt. 2022 → 5 Okt. 2022

**Trust your BMS: Designing a Lightweight Authentication Architecture for Industrial Networks**  
Fikret Basic (Redner/in)  
25 Aug. 2022

**Higher Education Didactics 1: Basics of Teaching and Learning**  
Fikret Basic (Teilnehmer/-in)  
4 Juli 2022 → 5 Juli 2022

**A Novel Secure NFC-based Approach for BMS Monitoring and Diagnostic Readout**  
Fikret Basic (Redner/in)  
18 Mai 2022

**2021 IEEE International Conference on RFID Technology and Applications (RFID-TA)**  
Fikret Basic (Redner/in)  
8 Okt. 2021

**EuroPLoP'21: 26th European Conference on Pattern Languages of Programs**  
Fikret Basic (Redner/in)  
7 Juli 2021 → 11 Juli 2021

## **Auszeichnungen**

**AVL Hans List Fonds Preis 2023**  
Basic, Fikret (Empfänger/-in), Okt. 2023

**Best Paper Presentation Award**  
Basic, Fikret (Empfänger/-in), 25 Aug. 2022

**ITalent South-East 2018**  
Basic, Fikret (Empfänger/-in), 2018

**Zertifikat für abgeschlossene Didaktik-Werkstatt 2023 für Hochschullehrende**  
Basic, Fikret (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)**  
Fikret Basic  
7/11/23  
1 Objekt von Medienberichte

**Kleine Zeitung: Lockruf für den IT-Nachwuchs**  
Fikret Basic  
14/05/19  
1 Objekt von Medienberichte

## Projekte

### Hardware/Software-Codesign

Steger, C., Seifert, C., Stelzer, P., Fiala, G. & Basic, F.  
1/01/95 → ...

### Intelligent & Networked Embedded Systems

Boano, C. A., Römer, K. U., Schuß, M., Cao, N., Saukh, O., Hofmann, R., Stocker, M., Schuh, M. P., Papst, F., Salomon, E., Brunner, H., Gallacher, M., Mohamed Hydher, M. H., Wang, D., Corti, F., Krisper, M., Basic, F. & Petrovic, K.  
1/09/13 → ...

### OPEVA - Optimierung der Autonomie von Elektrofahrzeugen

Steger, C., Basic, F., Bürgel, V., Eder, P., Macher, G. & Finsterbusch, A.  
1/01/23 → 31/12/25

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

Steger, C., Basic, F. & Feldbacher, M.  
1/04/18 → 31/03/20

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

Römer, K. U., Schuß, M., Boano, C. A., Gallacher, M., Schuh, M. P. & Basic, F.  
1/07/21 → 31/12/24

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2019	Lorem ipsum dolor sit amet