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Research outputs

SRAM PUFs for Device Authentication on Resource-Constrained Systems

Penz, M., Zeinzinger, M., Kargl, M. B., Eibensteiner, F., Petz, P. M. C. F. & Langer, J., 2025, (Accepted/In press).

Textile Sensor Surrogate Modelling using Sparse Identification

Steiger, M. K., Petz, P. M. C. F. & Schuler, S. M., 21 Dec 2023, (Accepted/In press).

Comparative Analysis of SRAM PUF Temperature Susceptibility on Embedded Systems

Zeinzinger, M., Langer, J., Eibensteiner, F., Petz, P. M. C. F., Drack, L., Dorfmeister, D. & Ramler, R., 11 Sept 2023, (Accepted/In press).

Drift Compensation of Wearable Textile Sensors in Mobile Applications

Petz, P. M. C. F., Zeinzinger, M., Eibensteiner, F., Langer, J. & Aigner, R., 5 Sept 2023, (Accepted/In press). 6 p.

Embedded Retraining for Conductive Textile Sensor Calibration and Compensation

Petz, P. M. C. F., Eibensteiner, F., Zeinzinger, M. & Langer, J., 9 May 2023, (Accepted/In press). 6 p.

Investigation of the Functional Ageing of Conductive Coated Fabrics under Simulated Washing Conditions

Biermaier, C., Petz, P. M. C. F., Bechtold, T. & Pham, T., Feb 2023, In: *Advanced Polymer-Coated Materials: Fabrication, Characterization and Applications*. 16, 3, 16 p., 912.

A Textile Based Capacitive Pressure and Shear Force Sensor

Schuler, S. M., Petz, P. M. C. F., Eibensteiner, F. & Langer, J., 2023, *FLEPS 2023 - IEEE International Conference on Flexible and Printable Sensors and Systems, Proceedings*. Institute of Electrical and Electronics Engineers Inc., 4 p. (FLEPS 2023 - IEEE International Conference on Flexible and Printable Sensors and Systems, Proceedings).

Explainable Damage Models for Functional Ageing Effects in Abraded Copper Coated Textiles

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A Deep Learning based Approach for Hand Gesture Recognition on a Low-power Microcontroller using IMU Sensors

Meißl, F. D., Eibensteiner, F., Langer, J. & Petz, P. M. C. F., 2 Sept 2022, (Accepted/In press).

Online Handwriting Recognition using LSTM on Microcontroller and IMU Sensors

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Feasibility Analysis of a Textile Metal Detector Utilizing a Conductive Yarn

Schuler, S. M., Petz, P. M. C. F. & Eibensteiner, F., 2022, *FLEPS 2022 - IEEE International Conference on Flexible and Printable Sensors and Systems, Proceedings*. Institute of Electrical and Electronics Engineers Inc., (FLEPS 2022 - IEEE International Conference on Flexible and Printable Sensors and Systems, Proceedings).

Influences of Coating and Spandex Compositions of Conductive Textiles Used as Strain Sensors Using an Automated Test System

Wohlrab, S., Petz, P. M. C. F., Eibensteiner, F. & Langer, J., 2022, *Intelligent Computing - Proceedings of the 2022 Computing Conference*. Arai, K. (ed.). Springer, p. 306-321 16 p. (Lecture Notes in Networks and Systems; vol. 507 LNNS).

Nondestructive Testing and Evaluation of Smart Textile Sensors using Embedded Systems

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Reliability of Conductive Textile Sensors Exposed to Ageing and Prolonged Use

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Textile in the Loop as Automated Verification Tool for Smart Textiles Application

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Sensor Shirt as Universal Platform for Real-Time Monitoring of Posture and Movements for Occupational Health and Ergonomics

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Textiler Träger: Textiler Träger

Eibensteiner, F. (Inventor), Langer, J. (Inventor) & Petz, P. M. C. F. (Inventor), 3 Feb 2020, IPC No. A 50084/2020, 3 Feb 2020

Performance Evaluation of Conductive Textiles for Movement Pattern Recognition in Smart Socks

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