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Praktikum Systemprogrammierung

For questions regarding the "Praktikum Systemprogrammierung (PSP)" please contact us by email: psp[at]embedded[dot]rwth-aachen[dot]de.

Office Hours

By appointment

Publications

[PSS+21]

[PDFBIB](#)

Preuss, R., Smieschek, M., Stollenwerk, A., Kowalewski, S., and Heinrichs, T.,
"Behälterreinigungsmaschine", 2021.

Behälterreinigungsmaschine

Bibtex entry :

```
@techreport { PSS+21,  
  author = { Preuss, R{"u"}diger and Smieschek, Manfred and  
            Stollenwerk,  
            Andr{e} and Kowalewski, Stefan and Heinrichs, Timo },  
  title = { Beh{"a"}lterreinigungsmaschine },  
  pages = { 19 Seiten : Illustrationen },  
  year = { 2021 },  
  typ = { PUB:(DE-HGF)23 },
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reportid = { RWTH-2022-07169 },
cin = { 122810 / 120000 },
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https://worldwide.espacenet.com/patent/search/family/066998405/publication/DE102018120081B4?q=DE102018120081 },
}
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[SRT+20]

[PDFBIB](#)

Smieschek, M., Rakel, S., Thönnessen, D., Derks, A., Stollenwerk, A., and Kowalewski, S., "A Remote Test Environment for a Large-Scale Microcontroller Laboratory Course", in *Proc. Cyber physical systems : model-based design : 9th international workshop, CyPhy 2019 and 15th international workshop, WESE 2019, New York City, NY, USA, October 17-18, 2019 : revised selected papers / Roger Chamberlain, Martin Edin Grimheden, Walid Taha (eds.)*, Cham, 2020 in *Lecture Notes in Computer Science*, Springer, pp. 231-246.

A Remote Test Environment for a Large-Scale Microcontroller Laboratory Course

Bibtex entry :

```
@inproceedings { SRT+20,
  author = { Smieschek, Manfred and Rakel, Stefan and Th{"o"}nnessen,
    David and Derks, Andreas and Stollenwerk, Andr{e} and
    Kowalewski, Stefan },
  title = { A Remote Test Environment for a Large-Scale
    Microcontroller
    Laboratory Course },
  booktitle = { Cyber physical systems : model-based design : 9th
    international workshop, CyPhy 2019 and 15th international
    workshop, WESE 2019, New York City, NY, USA, October 17-18,
    2019 : revised selected papers / Roger Chamberlain, Martin
    Edin Grimheden, Walid Taha (eds.) },
  publisher = { Springer },
  pages = { 231-246 },
  series = { Lecture Notes in Computer Science },
  year = { 2020 },
  address = { Cham },
  organization = { Workshop on Embedded Systems and Cyber-Physical
    Systems
    Education, New York (USA), 2019-10-17 - 2019-10-18 },
  doi = { 10.1007/978-3-030-41131-2_11 },
  typ = { PUB:(DE-HGF)7 },
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  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/783169/files/Remote%20Pool%20Final.pdf },
}
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[SS20]

[PDFBIB](#)

Stollenwerk, A. and Smieschek, M., "Eingabe und Übertragung von Instandhaltungsinformationen für das Condition Monitoring - Digitalisierung von Offline-Informationen", , Düsseldorf / Berlin, VDI/VDE 3711, 2020.

Eingabe und Übertragung von Instandhaltungsinformationen für das Condition Monitoring - Digitalisierung von Offline-Informationen

Bibtex entry :

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@techreport { SS20,
  author = { Stollenwerk, André and Smieschek, Manfred },
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  f{\\"u}r das Condition Monitoring - Digitalisierung von
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https://www.vdi.de/richtlinien/details/vdivde-3711-eingabe-und-uebertra
gung-von-instandhaltungsinformationen-fuer-das-condition-monitoring-
digitalisierung-von-offline-informationen },
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  Demonstratoren in realen Umgebungen und Evaluation mit Fokus
  auf Standardisierung (I40Demo); Teilvorhaben: 'Use Case 2:
  Plug&Produce - Feldger{\\"a}tetausch im Betrieb' und 'Use
  Case 4: Predictive Maintenance' (BMWi-03TNF001B) },
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[SKS+19]

[PDFBIB](#)

Smieschek, M., Kobsik, G., Stollenwerk, A., Kowalewski, S., Orlikowsky, T., and Schoberer, M., "Aided Hand Detection in Thermal Imaging Using RGB Stereo Vision", in *Proc. Biomedical engineering ranging from wellness to intensive care : 2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) : 41st EMB Conference : July 23-27, Berlin / IEEE, EMB ; conference editorial board chair: Riccardo Barbieri, Milan, Italy, Piscataway, NJ, 2019, IEEE, pp. 6314-6317.*

Aided Hand Detection in Thermal Imaging Using RGB Stereo Vision

Bibtex entry :

```
@inproceedings { SKS+19,  
  author = { Smieschek, Manfred and Kobsik, Gregor and Stollenwerk,  
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    Schoberer, Mark },  
  title = { Aided Hand Detection in Thermal Imaging Using RGB Stereo  
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  booktitle = { Biomedical engineering ranging from wellness to  
intensive  
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    Engineering in Medicine and Biology Society (EMBC) : 41st  
    EMB Conference : July 23-27, Berlin / IEEE, EMB ; conference  
    editorial board chair: Riccardo Barbieri, Milan, Italy },  
  publisher = { IEEE },  
  pages = { 6314-6317 },  
  year = { 2019 },  
  address = { Piscataway, NJ },  
  organization = { 41. Annual International Conference of the IEEE  
Engineering  
    in Medicine & Biology Society, Berlin (Germany), 2019-07-23  
    - 2019-07-27 },  
  doi = { 10.1109/EMBC.2019.8856990 },  
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[SHS+18]

[PDFBIB](#)

Smieschek, M., Hinrichs, T., Stollenwerk, A., Kowalewski, S., and Preuß, R., "A New Condition Indicator for Slow-Rotating Roller Chains based on the Angle and Torque of the Driving Motor", in *Proc. 2018 IEEE 14th International Conference on Automation Science and Engineering (CASE) : 20-24 Aug. 2018 / general chair: Birgit Vogel-Heuser (Technical University of Munich) ; publisher: IEEE, Piscataway, NJ, 2018, IEEE, pp. 642-644.*

A New Condition Indicator for Slow-Rotating Roller Chains based on the Angle and Torque of the Driving Motor

Bibtex entry :

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@inproceedings { SHS+18,  
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    André and Kowalewski, Stefan and Preu{\ss}, R{"u}diger },
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    booktitle = { 2018 IEEE 14th International Conference on Automation
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                  chair: Birgit Vogel-Heuser (Technical University of Munich)
                  ; publisher: IEEE },
    publisher = { IEEE },
    pages = { 642-644 },
    year = { 2018 },
    address = { Piscataway, NJ },
    organization = { IEEE 14. International Conference on Automation
Science and
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              auf Standardisierung (I40Demo); Teilvorhaben: 'Use Case 2:
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```

[SSK+17]

[PDFBIB](#)

Smieschek, M., Stollenwerk, A., Kowalewski, S., Orlikowsky, T., and Schoberer, M., "Unterstützte Handerkennung in Thermographiebildern zur Validierung der hygienischen Händedesinfektion", in *Proc. Bildverarbeitung für die Medizin 2017 : Algorithmen - Systeme - Anwendungen : Proceedings des Workshops vom 12. bis 14. März 2017 in Heidelberg / Klaus Hermann Maier-Hein, Thomas M. Deserno, Heinz Handels, Thomas Tolxdorff (Herausgeber)*, Berlin, Heidelberg, 2017 in Informatik aktuell, Springer Berlin Heidelberg, pp. 147-152.

Unterstützte Handerkennung in Thermographiebildern zur Validierung der hygienischen Händedesinfektion

Bibtex entry :

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@inproceedings { SSK+17,
    author = { Smieschek, Manfred and Stollenwerk, André and
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    title = { Unterst{"u}tzte Handerkennung in Thermographiebildern
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              Validierung der hygienischen H{"a}ndedesinfektion },
    booktitle = { Bildverarbeitung f{"u}r die Medizin 2017 :
Algorithmen -
                  Systeme - Anwendungen : Proceedings des Workshops vom 12.

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bis 14. M{"a}rz 2017 in Heidelberg / Klaus Hermann
Maier-Hein, Thomas M. Deserno, Heinz Handels, Thomas
Tolxdorff (Herausgeber) },
publisher = { Springer Berlin Heidelberg },
pages = { 147-152 },
series = { Informatik aktuell },
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address = { Berlin, Heidelberg },
organization = { Bildverarbeitung f{"u}r die Medizin 2017 :
Algorithmen -
Systeme - Anwendungen, Heidelberg (Germany), 2017-03-12 -
2017-03-14 },
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url = { http://publications.rwth-aachen.de/record/752321 },
}
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[SSJ+16]

[PDF](#)BIB

Smieschek, M., Stollenwerk, A., Jüptner, J. P., Kowalewski, S., Orlikowsky, T., and Schoberer, M., "Evaluating Hand Disinfection with Alcohol-Based Hand Sanitizers Using Thermal Imaging", in *Proc. [Gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited by: Wolf Zimmermann, Lukas Alperowitz, Bernd Brügge, Jörn Fahsel, Andrea Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter, Dirk Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer, Sibylle Schupp, Andreas Seitz, Andreas Steffens, André Stollenwerk, Rüdiger Weißbach]*, Aachen, Germany, 2016 in CEUR Workshop Proceedings, RWTH Aachen, pp. 174-181.

Evaluating Hand Disinfection with Alcohol-Based Hand Sanitizers Using Thermal Imaging

Bibtex entry :

```
@inproceedings { SSJ+16,
  author = { Smieschek, Manfred and Stollenwerk, André and
J{"u}ptner,
    Johann Patrick and Kowalewski, Stefan and Orlikowsky,
    Thorsten and Schoberer, Mark },
  title = { Evaluating Hand Disinfection with Alcohol-Based Hand
    Sanitizers Using Thermal Imaging },
  booktitle = { [Gemeinsamer Tagungsband der Workshops der Tagung
    Software
    Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 /
    Edited by: Wolf Zimmermann, Lukas Alperowitz, Bernd
    Br{"u}gge, J{"o}rn Fahsel, Andrea Herrmann, Anne Hoffmann,
    Andreas Krall, Dieter Landes, Horst Lichter, Dirk Riehle,
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    Sibylle Schupp, Andreas Seitz, Andreas Steffens, André
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    Stollenwerk, R{"u}diger Wei{ss}bach] },
    publisher = { RWTH Aachen },
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    year = { 2016 },
    address = { Aachen, Germany },
    organization = { 2. Workshop on Fail Safety in Medical Cyber-
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    url = { http://ceur-ws.org/Vol-1559/paper23.pdf },
}

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[KSM15]

[PDFBIB](#)

Kühnel, M., Smieschek, M., and Meyer, U., "Fast Identification of Obfuscation and Mobile Advertising in Mobile Malware", in *Proc. 2015 IEEE Trustcom/BigDataSE/ISPA : 20 - 22 Aug. 2015, Helsinki, Finland / sponsored by IEEE and IEEE Computer Society, and endorsed by IEEE Technical Committee on Scalable Computing (TCSC) ... - Vol. 3*, Piscataway, NJ, 2015, IEEE, pp. 214-221.

Fast Identification of Obfuscation and Mobile Advertising in Mobile Malware

Bibtex entry :

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@inproceedings { KSM15,
    author = { K{"u}hnel, Marián and Smieschek, Manfred and Meyer,
Ulrike },
    title = { Fast Identification of Obfuscation and Mobile Advertising
in
    Mobile Malware },
    booktitle = { 2015 IEEE Trustcom/BigDataSE/ISPA : 20 - 22 Aug.
2015,
    Helsinki, Finland / sponsored by IEEE and IEEE Computer
    Society, and endorsed by IEEE Technical Committee on
    Scalable Computing (TCSC) ... - Vol. 3 },
    publisher = { IEEE },
    pages = { 214-221 },
    year = { 2015 },
    address = { Piscataway, NJ },
    organization = { IEEE International Conference on Trust, Security
and Privacy
    in Computing and Communications ; 14, Helsinki (Finland),
    2015-08-20 - 2015-08-22 },
    doi = { 10.1109/Trustcom.2015.377 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2017-00130 },
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