

Dipl.-Ing. (FH) Jan Kühn, M.Sc.

Kontakt



Wissenschaftlicher Mitarbeiter
kuehn[at]embedded[dot]rwth-aachen[dot]de

Tel. +49 241 80 21164
Fax +49 241 80 22150

Adresse: Ahornstr. 55, 52074 Aachen, Germany
Büro: Raum 2313 (Gebäude H)

Forschung

[ECLA-VENT](#)
[AutoMock](#)

Lehre

WS2017/18:

- [Dynamic Systems for Computer Scientists \(V\)](#)
- [Cyber-Physische Systeme in Medizintechnik und Mobilität \(S\)](#)

WS2016/17:

- [Dynamic Systems for Computer Scientists \(V\)](#)
- [Eingebettete Software in Medizintechnik & eMobilität \(S\)](#)

SS2016:

- [Eingebettete Software in Medizintechnik & eMobilität \(S\)](#)

WS2015/16:

- [Dynamic Systems for Computer Scientists \(V\)](#)
- [Eingebettete Signalverarbeitung in Medizintechnik & eMobilität \(S\)](#)

WS2014/15:

- [Dynamic Systems for Computer Scientists \(V\)](#)
- [Ausgesuchte Themen zur Eingebetteten Software \(S\)](#)

WS2013/14:

- [Safe and Sound: Testing and Model Checking of Embedded Systems \(S\)](#)
- [Dynamic Systems for Computer Scientists \(V\)](#)

Betreute Abschlussarbeiten

- [Eingebette Reizkulationsmessung für ECLA-Systeme](#)
- [Editor und Steuerungsapplikation für pulsatile Blutflüsse](#)
- [Reizkulationsmessung bei extrakorporaler Lungenunterstützung](#)
- [Auslegung einer pulsatilen Ansteuerungsstrategie für eine Blutpumpe](#)
- [Modellierung und Analyse von konkurrierenden Sicherheitszielen in einer intensivmedizinischen Anwendung](#)

Publikationen

[KBS+19]

[PDFBIB](#)

Kühn, J., Buglowski, M., Stollenwerk, A., Kowalewski, S., Walter, M., Leonhardt, S., Petran, J., Kopp, R., Rossaint, R., and Janisch, T., "Fault Identification in a Blood Pump Using Neural Networks", in *Proc. World Congress on Medical Physics and Biomedical Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol.2) / edited by Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott*, Singapore, 2019 in IFMBE Proceedings, Springer Singapore, pp. 27-32.

Fault Identification in a Blood Pump Using Neural Networks

Bibtex entry :

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@inproceedings { KBS+19,
  author = { Kühn, Jan and Buglowski, Mateusz and Stollenwerk,
    André
    and Kowalewski, Stefan and Walter, Marian and Leonhardt,
    Steffen and Petran, Jan and Kopp, Rüdiger and Rossaint,
    Rolf and Janisch, Thorsten },
  title = { Fault Identification in a Blood Pump Using Neural
    Networks },
  booktitle = { World Congress on Medical Physics and Biomedical
    Engineering
    2018 : June 3-8, 2018, Prague, Czech Republic (Vol.2) /
    edited by Lenka Lhotska, Lucie Sukupova, Igor Lacković,
    Geoffrey S. Ibbott },
  publisher = { Springer Singapore },
  pages = { 27-32 },
  series = { IFMBE Proceedings },
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year = { 2019 },
address = { Singapore },
organization = { IUPESM World Congress on Medical Physics and
Biomedical
Engineering, Prague (Czech Republic), 2018-06-03 -
2018-06-08 },
doi = { 10.1007/978-981-10-9038-7_6 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-231048 },
cin = { 533000-2 / 122810 / 120000 / 611010 },
url = { http://publications.rwth-aachen.de/record/751048 },
illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock
-
Entwicklung eines vollautomatisierten in vitro Teststands
(Mock Loop) - Ein kunstlicher Kreislauf als
Ersatzmethode zur Biokompatibilitätstestung von
Membranoxygenatoren und zur Transplantationssimulation
(BMBF-031L0134B) },
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[KSK+18]

[PDFBIB](#)

Kühn, J., Stollenwerk, A., Kowalewski, S., Fabry, G., Grzanna, T., Doorschodt, B., Tolba, R. H., Rossaint, R., and Bleilevens, C., "A long-term setup for kidney perfusion." 2018.

A long-term setup for kidney perfusion

Bibtex entry :

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@inproceedings { KSK+18,
author = { Kühn, Jan and Stollenwerk, André and Kowalewski,
Stefan
and Fabry, Gregor and Grzanna, Tim and Doorschodt, Benedict
and Tolba, René H. and Rossaint, Rolf and Bleilevens,
Christian },
title = { A long-term setup for kidney perfusion },
year = { 2018 },
organization = { 52nd Annual Conference of the German Society for
Biomedical
Engineering, Aachen (Germany), 2018-09-26 - 2018-09-28 },
typ = { PUB:(DE-HGF)6 },
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Entwicklung eines vollautomatisierten in vitro Teststands
(Mock Loop) - Ein kunstlicher Kreislauf als
Ersatzmethode zur Biokompatibilitätstestung von
Membranoxygenatoren und zur Transplantationssimulation
(BMBF-031L0134B) },
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}

[SBK18]

[PDFBIB](#)

Stollenwerk, A., Buglowski, M., and Kühn, J., "Mock loop for bubble generation in a centrifugal blood pump for fault simulation", *Current Directions in Biomedical Engineering*, vol. 4, iss. 1, pp. 33-36, 2018

Mock loop for bubble generation in a centrifugal blood pump for fault simulation

Bibtex entry :

```
@article { SBK18,
  author = { Stollenwerk, André and Buglowski, Mateusz and K{"u}hn,
Jan },
  title = { Mock loop for bubble generation in a centrifugal blood
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for fault simulation },
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  publisher = { de Gruyter },
  pages = { 33-36 },
  volume = { 4 },
  number = { 1 },
  year = { 2018 },
  address = { Berlin },
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http://publications.rwth-aachen.de/record/752262/files/752262.pdf },
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[WKJ+18]

[PDFBIB](#)

Walter, M., Kühn, J., Janisch, T., Petran, J., Kopp, R., and Leonhardt, S., "Cooperative automation of extracorporeal gas exchange and artificial ventilation", in *Proc. World Congress on Medical Physics & Biomedical Engineering : June 3-8, 2018, Prague, Czech Republic : IUPESM Page 2018 : Book of Abstracts*, 2018, pp. 663-664.

Cooperative automation of extracorporeal gas exchange and artificial ventilation

Bibtex entry :

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@inproceedings { WKJ+18,
  author = { Walter, Marian and K{"u}hn, J. and Janisch, Thorsten
and
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    Petran, Jan and Kopp, R{"u}dger and Leonhardt, Steffen },
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    typ = { PUB:(DE-HGF)1 },
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[BHK+17]

[PDFBIB](#)

Brendle, C., Hackmack, K. -F., Kühn, J., Wardeh, M. N., Janisch, T., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Leonhardt, S., Walter, M., and Misgeld, B. J. E., "Closed-loop control of extracorporeal oxygen and carbon dioxide gas transfer", *Control engineering practice*, vol. 59, pp. 173-182, 2017

Closed-loop control of extracorporeal oxygen and carbon dioxide gas transfer

Bibtex entry :

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@article { BHK+17,
  author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan
and
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    Stefan and Leonhardt, Steffen and Walter, Marian and
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  title = { Closed-loop control of extracorporeal oxygen and carbon
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  pages = { 173-182 },
  volume = { 59 },
  year = { 2017 },
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  issn = { 0967-0661 },
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  typ = { PUB:(DE-HGF)16 },
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Lungenunterstützung und Beatmung für die Therapie
des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[BMK+17]

[PDFBIB](#)

Brendle, C., Mülders, T., Kühn, J., Janisch, T., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Misgeld, B. J. E., Leonhardt, S., and Walter, M., "Physiological closed-loop control of mechanical ventilation and extracorporeal membrane oxygenation", *Biomedizinische Technik*, vol. 62, iss. 2, pp. 199-212, 2017

Physiological closed-loop control of mechanical ventilation and extracorporeal membrane oxygenation

Bibtex entry :

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@article { BMK+17,
  author = { Brendle, Christian and Mülders, Thorsten and Kühn,
Jan and Janisch, Thorsten and Kopp, Rüdiger and Rossaint,
Rolf and Stollenwerk, André and Kowalewski, Stefan and
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Walter, Marian },
  title = { Physiological closed-loop control of mechanical
ventilation
and extracorporeal membrane oxygenation },
  journal = { Biomedizinische Technik },
  publisher = { de Gruyter },
  pages = { 199-212 },
  volume = { 62 },
  number = { 2 },
  year = { 2017 },
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  issn = { 1862-278X },
  doi = { 10.1515/bmt-2016-0077 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2017-09475 },
  cin = { 611010 / 122810533000-2 / 120000 },
  url = { http://publications.rwth-aachen.de/record/707843 },
}

```

[DKK17]

[PDFBIB](#)

Dernehl, C., Kühn, J., and Kowalewski, S., "Case studies on automated verification with slope boundaries for block diagrams", *Computer Languages, Systems & Structures*, vol. 54, pp. 528-543, 2017

Case studies on automated verification with slope boundaries for block diagrams

Bibtex entry :

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@article { DKK17,  
  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski,  
Stefan },  
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  address = { Amsterdam [u.a.] },  
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[KBS+17]

[PDFBIB](#)

Kühn, J., Brendle, C., Stollenwerk, A., Schweigler, M., Kowalewski, S., Janisch, T., Rossaint, R., Leonhardt, S., Walter, M., and Kopp, R., "Decentralized safety concept for closed-loop controlled intensive care : Supervision of a blood pump during extracorporeal circulation", *Biomedizinische Technik*, vol. 62, iss. 2, pp. 213-224, 2017

Decentralized safety concept for closed-loop controlled intensive care : Supervision of a blood pump during extracorporeal circulation

Bibtex entry :

```
@article { KBS+17,  
  author = { K{"u}hn, Jan and Brendle, Christian and Stollenwerk,  
André  
and Schweigler, Martin and Kowalewski, Stefan and Janisch,  
Thorsten and Rossaint, Rolf and Leonhardt, Steffen and  
Walter, Marian and Kopp, R{"u}dger },  
  title = { Decentralized safety concept for closed-loop controlled  
intensive care : Supervision of a blood pump during  
extracorporeal circulation },  
  journal = { Biomedizinische Technik },  
  publisher = { de Gruyter },
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pages = { 213-224 },
volume = { 62 },
number = { 2 },
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issn = { 1862-278X },
doi = { 10.1515/bmt-2016-0087 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2017-09486 },
cin = { 611010 / 122810533000-2533000-3 / 120000533000-3533000-2 },
url = { http://publications.rwth-aachen.de/record/707857 },
}

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[WKK+17]

[PDFBIB](#)

Walter, M., Kunczik, J., Kühn, J., Janisch, T., Kopp, R., and Leonhardt, S., "Robust control of extracorporeal gas exchange", in *Proc. Abstract Book at EMBEC'17 & NBC'17 : the Joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC) : Tampere, Finland / Editors: Jennika Karvinen, Janne Koivisto, Sampo Tuukkanen, Jari Viik*, Finland, 2017, BioMediTech Institute and Faculty of Biomedical Sciences and Engineering Tampere University of Technology, p. 365, 150-150.

Robust control of extracorporeal gas exchange

Bibtex entry :

```

@inproceedings { WKK+17,
  author = { Walter, Marian and Kunczik, Janosch and K{"u}hn, Jan
and
  Janisch, Thorsten and Kopp, R{"u}dger and Leonhardt,
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  the European Medical and Biological Engineering Conference
(EMBEC) and the Nordic-Baltic Conference on Biomedical
Engineering and Medical Physics (NBC) : Tampere, Finland /
Editors: Jennika Karvinen, Janne Koivisto, Sampo Tuukkanen,
Jari Viik },
  publisher = { BioMediTech Institute and Faculty of Biomedical
Sciences and
  Engineering Tampere University of Technology },
  pages = { 365, 150-150 },
  year = { 2017 },
  address = { Finland },
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(NBC), Tampere (Finland), 2017-06-11 - 2017-06-15 },
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url = { http://embec2017.org/2017/07/07/final-abstract-book/ },
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[BHK+16]

[PDFBIB](#)

Brendle, C., Hackmack, K. -F., Kühn, J., Wardeh, M. N., Janisch, T., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Misgeld, B. J. E., Leonhardt, S., and Walter, M., "Continuous gas transfer monitoring during extracorporeal membrane oxygenation", *Biomedical signal processing and control*, vol. 31, pp. 321-330, 2016

Continuous gas transfer monitoring during extracorporeal membrane oxygenation

Bibtex entry :

```

@article { BHK+16,
  author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan
and
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  Stefan and Misgeld, Berno Johannes Engelbert and Leonhardt,
  Steffen and Walter, Marian },
  title = { Continuous gas transfer monitoring during extracorporeal
  membrane oxygenation },
  journal = { Biomedical signal processing and control },
  publisher = { Elsevier },
  pages = { 321-330 },
  volume = { 31 },
  year = { 2016 },
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  issn = { 1746-8094 },
  doi = { 10.1016/j.bspc.2016.08.023 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2016-10177 },
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  url = { http://publications.rwth-aachen.de/record/678132 },
}

```

[DKK16]

[PDFBIB](#)

Dernehl, C., Kühn, J., and Kowalewski, S., "Abstract Interpretation for Block Diagrams : Two Case Studies", in *Proc. MoDeVVA 2016 : Model-Driven Engineering, Verification and Validation : proceedings of the 13th Workshop on Model-Driven Engineering, Verification and Validation co-located with ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems (MODELS 2016) : Saint-Malo, France, October 3, 2016 / edited by Michalis Famelis, Daniel Ratiu, Gehan M. K. Selim*, Aachen, Germany, 2016 in CEUR workshop proceedings, RWTH Aachen, pp. 20-29.

Abstract Interpretation for Block Diagrams : Two Case Studies

Bibtex entry :

```
@inproceedings { DKK16,
  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski,
Stefan },
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  Model-Driven Engineering, Verification and Validation
  co-located with ACM/IEEE 19th International Conference on
  Model Driven Engineering Languages and Systems (MODELS 2016)
  : Saint-Malo, France, October 3, 2016 / edited by Michalis
  Famelis, Daniel Ratiu, Gehan M. K. Selim },
  publisher = { RWTH Aachen },
  pages = { 20-29 },
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  year = { 2016 },
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  organization = { 13th Workshop on Model Design, Verification and
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[KSB+16]

[PDFBIB](#)

Kühn, J., Stollenwerk, A., Brendle, C., Janisch, T., Walter, M., Rossaint, R., Leonhardt, S., Kowalewski, S., and Kopp, R., "Sensor Supervision and Control Value Limitations in Networked Intensive Care", 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. 187-194.

Sensor Supervision and Control Value Limitations in Networked Intensive Care

Bibtex entry :

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@inproceedings { KSB+16,
  author = { Kühn, Jan and Stollenwerk, André and Brendle,
Christian
  and Janisch, Thorsten and Walter, Marian and Rossaint, Rolf
and Leonhardt, Steffen and Kowalewski, Stefan and Kopp,
Rüdiger },
  title = { Sensor Supervision and Control Value Limitations in
Networked Intensive Care },
  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
Brügge, Johannes Fahsel, Andrea Herrmann, Anne Hoffmann,
Andreas Krall, Dieter Landes, Horst Lichter, Dirk Riehle,
Ina Schaefer, Constantin Scheuermann, Alexander Schläefer,
Sibylle Schupp, Andreas Seitz, Andreas Steffens, André
Stollenwerk, Rüdiger Weisbach] },
  publisher = { RWTH Aachen },
  pages = { 187-194 },
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  year = { 2016 },
  address = { Aachen, Germany },
  organization = { 2nd Workshop on Fail Safety in Medical Cyber-
Physical
Systems, Wien (Austria), 2016-02-26 - 2016-02-26 },
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des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[KVS+16]

[PDFBIB](#)

Kühn, J., Vaitl, L., Stollenwerk, A., Brendle, C., Walter, M., Leonhardt, S., Kowalewski, S., Rossaint, R., Kopp, R., and Janisch, T., "Eingebettete Rezirkulationsmessung für eine ECLA-Therapie", in *Proc. AUTOMED 2016 : Workshop : Wismar, 22.-23. September 2016 / DGBMT - Deutsche Gesellschaft für Biomedizinische Technik im VDE ; Editoren: Prof. Dr.-Ing. habil. Olaf Simanski, Dr. Olaf Hagendorf, Jörg Zucknik*, Wismar, 2016, Hochschule Wismar, Fakultät für Ingenieurwissenschaften, Fachgebiet Automatisierungstechnik/Mechatronik, p. 2.

Eingebettete Rezirkulationsmessung für eine ECLA-Therapie

Bibtex entry :

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@inproceedings { KVS+16,
  author = { K{"u}hn, Jan and Vaitl, Lorenz and Stollenwerk, André
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R{"u}dger and Janisch, Thorsten },
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  booktitle = { AUTOMED 2016 : Workshop : Wismar, 22.-23. September
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  DGBMT - Deutsche Gesellschaft f{"u}r Biomedizinische
Technik im VDE ; Editoren: Prof. Dr.-Ing. habil. Olaf
Simanski, Dr. Olaf Hagendorf, J{"o}rg Zucknik },
  publisher = { Hochschule Wismar, Fakult{"a}t f{"u}r
Ingenieurwissenschaften, Fachgebiet
Automatisierungstechnik/Mechatronik },
  pages = { 2 Seiten },
  year = { 2016 },
  address = { Wismar },
  organization = { Automatisierungsverfahren f{"u}r die Medizin
2016, Wismar
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http://automed2016.hs-wismar.de/wp-content/uploads/2017/02/Kuehn_Inform
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des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[WBK+16]

[PDFBIB](#)

Walter, M., Brendle, C., Kühn, J., Janisch, T., Kopp, R., Stollenwerk, A., and Leonhardt, S., "Assistive Control of Extracorporeal Oxygenation Systems", in *Proc. Proceedings of the 12th Russian-German Conference on Biomedical Engineering : 04-07 Jul 2016, Suzdal, Russia, Suzdal, 2016*, Vladimir state univ. named after Alexandr and Nikolay Stoletovs, pp. 222-226.

Assistive Control of Extracorporeal Oxygenation Systems**Bibtex entry :**

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@inproceedings { WBK+16,
  author = { Walter, Marian and Brendle, Christian and K{"u}hn, Jan
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booktitle = { Proceedings of the 12th Russian-German Conference on
Biomedical Engineering : 04-07 Jul 2016, Suzdal, Russia },
publisher = { Vladimir state univ. named after Alexandr and Nikolay
Stoletovs },
pages = { 222-226 },
year = { 2016 },
address = { Suzdal },
organization = { 12th Russian-German Conference on Biomedical
Engineering,
Suzdal (Russia), 2016-07-04 - 2016-07-07 },
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cin = { 611010533000-2 / 122810 / 120000 },
url = { http://bit.ly/2uN1hRR },
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des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[BHK+15]

[PDFBIB](#)

Brendle, C., Hackmack, K., Kühn, J., Wardeh, M. N., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Misgeld, B. J. E., Leonhardt, S., and Walter, M., "In silico evaluation of gas transfer estimation during extracorporeal membrane oxygenation", *IFAC-PapersOnLine*, vol. 48, iss. 20, pp. 499-504, 2015

In silico evaluation of gas transfer estimation during extracorporeal membrane oxygenation

Bibtex entry :

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@article { BHK+15,
author = { Brendle, Christian and Hackmack, Kay-Florian and
K{\u}hn,
Jan and Wardeh, Markus Nabil and Kopp, R{\u}dger and
Rossaint, Rolf and Stollenwerk, André and Kowalewski,
Stefan and Misgeld, Berno Johannes Engelbert and Leonhardt,
Steffen and Walter, Marian },
title = { In silico evaluation of gas transfer estimation during
extracorporeal membrane oxygenation },
journal = { IFAC-PapersOnLine },
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pages = { 499-504 },
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Lungenunterst{\u}tzung und Beatmung f{\u}r die Therapie
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[KSB+15]

[PDFBIB](#)

Kühn, J., Stollenwerk, A., Brendle, C., Walter, M., Wardeh, M. N., Kopp, R., and Kowalewski, S., "Embedded Safety Measures for Extracorporeal Blood Circulation", in *Proc. [Proceedings of the 11th German-Russian-Conference on Biomedical Engineering, GRC, 17.06.2015-19.06.2015, Aachen, Germany]*, 2015, pp. 169-170.

Embedded Safety Measures for Extracorporeal Blood Circulation

Bibtex entry :

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@inproceedings { KSB+15,
author = { K{\u}hn, Jan and Stollenwerk, André and Brendle,
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title = { Embedded Safety Measures for Extracorporeal Blood
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[KSK+15]

[PDFBIB](#)

Kühn, J., Stollenwerk, A., Kowalewski, S., Brendle, C., Walter, M., Leonhardt, S., Wardeh, M. N., Kopp, R., and Rossaint, R., "Pulsatile Ansteuerung einer Diagonalblutpumpe", *Atp-Edition*, vol.

57, iss. 10, pp. 52-59, 2015

Pulsatile Ansteuerung einer Diagonalblutpumpe

Bibtex entry :

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@article { KSK+15,
  author = { K{"u}hn, Jan and Stollenwerk, André and Kowalewski,
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[KSS+15]

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Kühn, J., Schoonbrood, P., Stollenwerk, A., Brendle, C., Wardeh, M. N., Walter, M., Roissant, R., Leonhardt, S., Kowalewski, S., and Kopp, R., "Safety Conflict Analysis in Medical Cyber-Physical Systems Using an SMT-Solver", in *Proc. SE-WS 2015, software engineering workshops 2015 : gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2015, Dresden, 17. - 18. März 2015 / hrsg. von Wolg Zimmermann ...*, Aachen, Germany, 2015 in CEUR workshop proceedings, RWTH Aachen, pp. 19-23.

Safety Conflict Analysis in Medical Cyber-Physical Systems Using an SMT-Solver

Bibtex entry :

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@inproceedings { KSS+15,
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[KWS+15]

[PDFBIB](#)

Kühn, J., Wübbels, N., Stollenwerk, A., Kowalewski, S., Brendle, C., Walter, M., Leonhardt, S., Wardeh, M., Kopp, R., and Roissant, R., "Pulsatile Ansteuerung einer Diagonalblutpumpe", in *Proc. Automation 2015 : benefits of change - the future of automation ; 16. Branchentreff der Mess- und Automatisierungstechnik ; Kongresshaus Baden-Baden, 11. und 12. Juni 2015 / VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik . - Bd. 1*, Düsseldorf, 2015 in VDI-Berichte, VDI Verlag, pp. 325-339.

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    author = { K{"u}hn, Jan and W{"u}bbels, Nico and Stollenwerk,
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    booktitle = { Automation 2015 : benefits of change - the future of
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12. Juni 2015 / VDI/VDE-Gesellschaft Mess- und
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pages = { 325-339 },
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des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[SKW+15]

[PDFBIB](#)

Stollenwerk, A., Kühn, J., Walter, M., Brendle, C., Wardeh, M. N., Rossaint, R., Leonhardt, S., Kowalewski, S., and Kopp, R., "Software-based Prediction of Cannula Occlusion during Extracorporeal Blood Circulation through Networked Medical Data", in *Proc. SE-WS 2015, software engineering workshops 2015 : gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2015, Dresden, 17. - 18. März 2015 / hrsg. von Wolg Zimmermann ...*, Aachen, Germany, 2015 in CEUR workshop proceedings, RWTH Aachen, pp. 1-6.

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Bibtex entry :

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@inproceedings { SKW+15,
  author = { Stollenwerk, André and K{"u}hn, Jan and Walter, Marian
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des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[SKB+14]

[PDFBIB](#)

Stollenwerk, A., Kühn, J., Brendle, C., Walter, M., Arens, J., Wardeh, M. N., Kowalewski, S., and Kopp, R., "Model-based supervision of a blood pump", in *Proc. Proceedings of the 19th World Congress of the International Federation of Automatic Control, Cape Town, South Africa, 2014, 24-29 August 2014 : Promoting automatic control for the benefit of humankind*, Laxenburg, 2014 in IFAC-PapersOnLine, IFAC, pp. 6593-6598.

Model-based supervision of a blood pump

Bibtex entry :

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@inproceedings { SKB+14,
  author = { Stollenwerk, André and K{"u}hn, Jan and Brendle,
Christian
    and Walter, Marian and Arens, Jutta and Wardeh, Markus Nabil
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  booktitle = { Proceedings of the 19th World Congress of the
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  pages = { 6593-6598 },
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Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
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