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Research

I am part of the medical group and I am currently working on the [AutoMock project](#).

Theses

If you are interested in a bachelor or master thesis, take a look at the page containing [open theses](#). If you are generally interested in a thesis in the medical field, you can write a mail to medtech-abschlussarbeiten@embedded.rwth-aachen.de.

Appointments

According to agreement

Publications

[BWH+23]

[PDFBIB](#)

Berg, F. J., Wiartalla, M. O., Hüllmann, M., Derks, A., Kowalewski, S., and Stollenwerk, A., "ASMO: a decentralized and verifiable interoperability platform in intensive care", *Proceedings on automation in medical engineering*, vol. 2, iss. 1, p. 2, 2023

ASMO: a decentralized and verifiable interoperability platform in intensive care

Bibtex entry :

```
@article { BWH+23,
  author = { Berg, Frederik Julius and Wiartalla, Marc Oliver and
    H{"u}llmann, Moritz and Derks, Andreas and Kowalewski,
    Stefan and Stollenwerk, André },
  title = { ASMO: a decentralized and verifiable interoperability
    platform in intensive care },
  journal = { Proceedings on automation in medical engineering },
  publisher = { Infinite Science GmbH },
  pages = { 2 Seiten },
  volume = { 2 },
  number = { 1 },
  year = { 2023 },
  address = { L{"u}beck },
  organization = { 16. Interdisziplin{"a}res Symposium AUTOMED -
    Automatisierungstechnische Verfahren f{"u}r die
    Medizintechnik, Gie{"ss}en (Germany), 2023-03-30 -
    2023-03-31 },
  doi = { 10.18154/RWTH-2023-03716 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-03716 },
  cin = { 122810 / 120000 },
  url = { https://doi.org/10.18416/AUTOMED.2023 },
}
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[WBK+23]

[PDFBIB](#)

Wiartalla, M., Berg, F. J., Kühn, J., Buglowski, M., Bleilevens, C., Kowalewski, S., and Stollenwerk, A., "A fully automated normothermic machine perfusion system for kidney grafts supporting physiological motivated flow profiles", in *Proc. Current directions in biomedical engineering*, Berlin, 2023, vol. 9, De Gruyter, pp. 323-326.

A fully automated normothermic machine perfusion system for kidney grafts supporting physiological motivated flow profiles

Bibtex entry :

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@inproceedings { WBK+23,
  author = { Wiartalla, Marc and Berg, Frederik Julius and K{\u}hn,
  Jahn
    and Buglowski, Mateusz and Bleilevens, Christian and
    Kowalewski, Stefan and Stollenwerk, Andr e },
  title = { A fully automated normothermic machine perfusion system
  for
    kidney grafts supporting physiological motivated flow
    profiles },
  booktitle = { Current directions in biomedical engineering },
  publisher = { De Gruyter },
  pages = { 323-326 },
  volume = { 9 },
  number = { 1 },
  year = { 2023 },
  address = { Berlin },
  issn = { 2364-5504 },
  organization = { 57. DGBMT Annual Conference on Biomedical
  Engineering,
    Duisburg (Germany), 2023-09-26 - 2023-09-28 },
  doi = { 10.1515/cdbme-2023-1081 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-09613 },
  cin = { 122810 / 120000 },
  illkey = { BMBF 031L0134B - Alternativmethoden - Verbund: AutoMock
  -
    Entwicklung eines vollautomatisierten in vitro Teststands
    (Mock Loop) - Ein k{\u}nstlicher Kreislauf als
    Ersatzmethode zur Biokompatibilit{\a}tstestung von
    Membranoxygenatoren und zur Transplantationssimulation
    (BMBF-031L0134B) },
}
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[WBO+23a]

[PDFBIB](#)

Wiartalla, M. O., Berg, F. J., Ottersbach, F., K hn, J., Buglowski, M., Kowalewski, S., and Stollenwerk, A., "A modular and verifiable software architecture for interconnected medical systems in intensive care", *Annals of computer science and information systems*, vol. 37, pp. 345-351, 2023

A modular and verifiable software architecture for

interconnected medical systems in intensive care

Bibtex entry :

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@article { WBO+23a,  
  author = { Wiartalla, Marc Oliver and Berg, Frederik Julius and  
    Ottersbach, Florian and K{"u}hn, Jan and Buglowski, Mateusz  
    and Kowalewski, Stefan and Stollenwerk, Andr{e} },  
  title = { A modular and verifiable software architecture for  
    interconnected medical systems in intensive care },  
  journal = { Annals of computer science and information systems },  
  publisher = { Polish Information Processing Society },  
  pages = { 345-351 },  
  volume = { 37 },  
  year = { 2023 },  
  address = { Warsaw },  
  issn = { 2300-5963 },  
  isbn = { 978-83-969601-3-9 },  
  organization = { 18. Conference on Computer Science and  
Intelligence Systems,  
  Warsaw (Poland), 2023-09-17 - 2023-09-20 },  
  doi = { 10.15439/2023F6208 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2023-09964 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/971996 },  
  illkey = { BMBF 031L0134B - Alternativmethoden - Verbund: AutoMock  
-  
  Entwicklung eines vollautomatisierten in vitro Teststands  
  (Mock Loop) - Ein k{"u"}nstlicher Kreislauf als  
  Ersatzmethode zur Biokompatibilit{"a"}tstestung von  
  Membranoxygenatoren und zur Transplantationssimulation  
  (BMBF-031L0134B) },  
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Last update: **2023/04/13 10:32**

