

Julius Beerwerth, M.Sc. RWTH

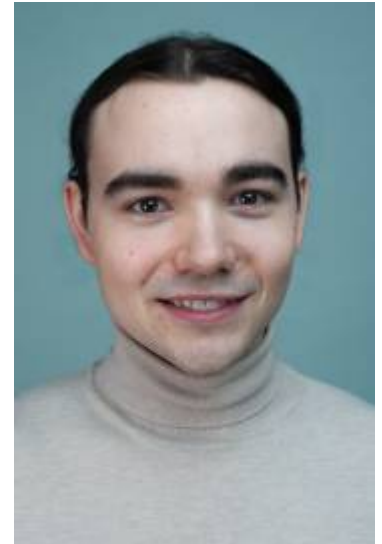
Member of the [Cyber-physical Mobility Group](#)

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Research

I am part of the [Cyber-Physical Mobility Group](#). I research service-oriented software architectures in the context of the [SOMC](#) project. My research interest include learning-based control, optimization and multi-agent systems.

Theses

If you are interested in a bachelor or master thesis, please contact me via email. Your own suggestions for topics are also possible.

HiWi/WiHi Jobs

Current job offers can be found [here](#). Unsolicited applications are also welcome. Your application

should include an overview of your grades and a short curriculum vitae.

Publikationen

[BMA+23]

[PDF](#)[BIB](#)

Böhlen, B., Meyer, O., Alrifaae, B., Beerwerth, J., Kampmann, A., Kowalewski, S., Konersmann, M., Rumpe, B., and Steinfurth, F., "Software-Defined Vehicle – Herausforderungen in der Diagnose dienstorientierter Fahrzeugarchitekturen", in *Proc. Diagnose in mechatronischen Fahrzeugsystemen XVI : Software-Defined Vehicle, SOVD, Maschinelles Lernen und KI, Standardisierung, HU und ADAS / Prof. Dr. Bernard Bäker, Dipl.-Ing. Andreas Unger (Hrsg.) und 53 Mitautoren*, Dresden, 2023, TUDpress, pp. 17-28.

Software-Defined Vehicle - Herausforderungen in der Diagnose dienstorientierter Fahrzeugarchitekturen

Bibtex entry :

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@inproceedings { BMA+23,
  author = { B{"o"}hlen, Boris and Meyer, Oliver and Alrifaae, Bassam
and
      Beerwerth, Julius and Kampmann, Alexandru and Kowalewski,
      Stefan and Konersmann, Marco and Rumpe, Bernhard and
      Steinfurth, Felix },
  title = { Software-Defined Vehicle – Herausforderungen in der
    Diagnose dienstorientierter Fahrzeugarchitekturen },
  booktitle = { Diagnose in mechatronischen Fahrzeugsystemen XVI :
    Software-Defined Vehicle, SOVD, Maschinelles Lernen und KI,
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    Dipl.-Ing. Andreas Unger (Hrsg.) und 53 Mitautoren },
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  address = { Dresden },
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Fahrzeugsystemen,
    Dresden (Germany), 2023-05-23 - 2023-05-24 },
  typ = { PUB:(DE-HGF)7 },
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  cin = { 122810 / 121510 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/972417/files/972417.pdf },
  illkey = { BMBF 01IS22088A - Verbundprojekt MANNHEIM-AUT0tech.agil:
    Architektur und Technologien zur Orchestrierung
    automobiltechnischer Agilit{"a"}t (01IS22088A) },
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[vLL+23]

PDFBIB

van Kempen, R., Lampe, B., Leuffen, M., Wirtz, L., Thomsen, F., Bilkei-Gorzo, G., Busch, J., Feger, I., Geller, C., Kehl, C., Uszynski, O., Wagner-Douglas, L., Zanger, L., Eckstein, L., Klüner, D. P., Beerwerth, J., Alrifaae, B., Kowalewski, S., Konersmann, M., Steinfurth, F., Rumpe, B., Hartmann, M., Siepenkötter, N., Moormann, D., Böhlen, B., Hannig, C., Hekele, E., Gotzig, H., Rostocki, P., Gautam, D., Schubert, R., Braun, N., Maurer, M., Gemlau, K., Abel, S., Ernst, R., Lutwitz, M., Bayerlein, L., Berghöfer, M., Blödel, A., Klamann, B., Kuznietsov, A., Peters, S., Leinen, S., Bahle, J., Ullrich, L., Graichen, K., Woopen, T., Spsychalski, D., Krauß, C., Alayan, M., Giesler, J., Lilienthal, M., Schulik, T., Lauer, M., Fernandez, C., Molinos, E., Le Large, N., Rack, N., Steiner, M., Wang, K., Stiller, C., Arndt, G., Schulz, B., Furmans, K., Rauber, S., Diermeyer, F., Brecht, D., Gehrke, N., Lienkamp, M., Zimmer, W., Creß, C., Zhou, X., Knoll, A., Püllen, D., Katzenbeisser, S., Elmazi, A., Sailer, A., Alfranseder, M., Mader, R., Berkel, F., Specker, T., Mayer, P., von Hasseln, H., Jung, L., Grandinetti, M., Neidhart, D., Greiner, D., Niedballa, D., Zaheri, D., Maier, J., Reuss, H., Afanasenko, V., Solomakha, O., Roge, S. S., Kallfass, I., Buchholz, M., Dehler, R., Henning, M., Hermann, C., Schön, M., and Dietmayer, K., "AUTotech.agil: Architecture and Technologies for Orchestrating Automotive Agility", in *Proc. [32nd Aachen Colloquium Sustainable Mobility, 2023-10-09 - 2023-10-11, Aachen, Germany]*, Aachen, 2023, Aachener Kolloquium Fahrzeug- und Motorentechnik GbR.

AUTotech.agil: Architecture and Technologies for Orchestrating Automotive Agility

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@inproceedings { vLL+23,
  author = { van Kempen, Raphael and Lampe, Bastian and Leuffen, Marc
and
  Wirtz, Lena and Thomsen, Fabian and Bilkei-Gorzo, Gergely
and Busch, Jean-Pierre and Feger, Ida and Geller, Christian
and Kehl, Christian and Uszynski, Olaf and Wagner-Douglas,
Lotte and Zanger, Lukas and Eckstein, Lutz and Kl{"u"}ner,
David Philipp and Beerwerth, Julius and Alrifaae, Bassam and
Kowalewski, Stefan and Konersmann, Marco and Steinfurth,
Felix and Rumpe, Bernhard and Hartmann, Max and
Siepenk{"o"}tter, Norbert and Moormann, Dieter and
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Deepak-Kumar and Schubert, Richard and Braun, Niklas and
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and Ernst, Rolf and Lutwitz, Melina and Bayerlein, Lorenz
and Bergh{"o"}fer, Moritz and Bl{"o"}del, Alexander and
Klamann, Bj{"o"}rn and Kuznietsov, Anton and Peters, Steven
and Leinen, Stefan and Bahle, Jakob and Ullrich, Lars and
Graichen, Knut and Woopen, Timo and Spsychalski, Dominik and
Krau{"ss"}, Christoph and Alayan, Mohamad and Giesler, Jens
and Lilienthal, Martin and Schulik, Thomas and Lauer, Martin
and Fernandez, Carlos and Molinos, Eduardo and Le Large,
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Nick and Rack, Nils and Steiner, Marlon and Wang, Kaiwen and
Stiller, Christoph and Arndt, Gideon and Schulz, Benedikt
and Furmans, Kai and Rauber, Stephan and Diermeyer, Frank
and Brecht, David and Gehrke, Nils and Lienkamp, Markus and
Zimmer, Walter and Cre{\ss}, Christian and Zhou, Xingcheng
and Knoll, Alois and P{"u}llen, Dominik and Katzenbeisser,
Stefan and Elmazi, Arlinda and Sailer, Andreas and
Alfranseder, Martin and Mader, Ralph and Berkel, Felix and
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and Jung, Lukas and Grandinetti, Marcel and Neidhart,
Dominik and Greiner, Dan and Niedballa, Dennis and Zaheri,
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Swapnil Sunil and Kallfass, Ingmar and Buchholz, Michael and
Dehler, Robin and Henning, Matti and Hermann, Charlotte and
Sch{"o}n, Markus and Dietmayer, Klaus },
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http://publications.rwth-aachen.de/record/971700/files/971700.pdf },
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Architektur und Technologien zur Orchestrierung
automobiltechnischer Agilit{"a}t (01IS22088A) },
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