

## Publications

### **Critical Spare Parts Management in Maritime Shipping: Selection and Control**

Pahl, J., Patzke, M. & Saeed, S., 2024, *Proceedings of the 57th Annual Hawaii International Conference on System Sciences, HICSS 2024*. Bui, T. X. (ed.). HICSS, p. 1390-1399 (Proceedings of the Annual Hawaii International Conference on System Sciences).

### **Cyber Security Assessment of An Interoperable Port Call and Voyage Optimization tool**

Hacks, S. & Pahl, J., 2024, In: *Journal of Physics: Conference Series*. 2867, 1, 12 p., 012047.

### **Introduction to the Minitrack "Intelligent Decision Support for Logistics and Supply Chain Management"**

Pahl, J. & Voß, S., 2024, *Proceedings of the 57th Annual Hawaii International Conference on System Sciences, HICSS 2024*. Bui, T. X. (ed.). HICSS, p. 1369 1 p. (Proceedings of the Annual Hawaii International Conference on System Sciences).

### **Just-in-Time Port Call Optimization: Challenges and IT-Systems**

Pahl, J., 2024, In: *Journal of Physics: Conference Series*. 2867, 1, 13 p., 012009.

### **Introduction to the Minitrack "Intelligent Decision Support for Logistics and Supply Chain Management"**

Pahl, J. & Voss, S., 2023, *Proceedings of the 56th Annual Hawaii International Conference on System Sciences (HICSS)*. Bui, T. X. (ed.). HICSS, p. 1176 (Proceedings of the Annual Hawaii International Conference on System Sciences, Vol. 2023-January).

### **Towards Smart Maintenance and Integrated Production Planning**

Pahl, J., Rødseth, H. & Strandhagen, J. O., 2023, *Advances in Production Management Systems. Production Management Systems for Responsible Manufacturing, Service, and Logistics Futures - IFIP WG 5.7 International Conference, APMS 2023, Proceedings*. Alfnes, E., Romsdal, A., Strandhagen, J. O., von Cieminski, G. & Romero, D. (eds.). Springer Science+Business Media, p. 765-778 (IFIP Advances in Information and Communication Technology, Vol. 691 AICT).

### **Optimal dual cycling operations in roll-on roll-off terminals**

Jia, B., Tierney, K., Reinhardt, L. B. & Pahl, J., Mar 2022, In: *Transportation Research Part E: Logistics and Transportation Review*. 159, 15 p., 102646.

### **Evaluating Barriers and Drivers to Sustainable Food Supply Chains**

Mohseni, S., Baghizadeh, K. & Pahl, J., 22. Feb 2022, In: *Mathematical Problems in Engineering*. 2022, 24 p., 4486132.

### **Maritime Spare Parts Management: Current State-of-the-Art**

Pahl, J., 4. Jan 2022, *Proceedings of the 55th Annual Hawaii International Conference on System Sciences: HICSS 2022*. Bui, T. X. (ed.). IEEE Computer Society Press, p. 1676-1685 10 p. (Proceedings of the Annual Hawaii International Conference on System Sciences, Vol. 2022-January).

### **Framework for Sustainability Assessment of Maritime Terminals**

Zabala, A. B., Pahl, J. & Rytter, N., 2022. 24 p.

### **Introduction to the Minitrack "Intelligent Decision Support for Logistics and Supply Chain Management"**

Pahl, J. & Voss, S., 2022, *Proceedings of the 55th Annual Hawaii International Conference on System Sciences, HICSS 2022*. Bui, T. X. (ed.). ScholarSpace, p. 1644-1645 (Proceedings of the Annual Hawaii International Conference on System Sciences, Vol. 2022-January).

### **Closed-Loop Supply Chain Design with Sustainability Aspects and Network Resilience under Uncertainty: Modelling and Application**

Baghizadeh, K., Pahl, J. & Hu, G., 27. Sept 2021, In: *Mathematical Problems in Engineering*. 2021, 23 p., 9951220.

**Introduction to the Minitrack on "Intelligent Decision Support and Big Data for Logistics and Supply Chain Management"**  
Pahl, J. & Voss, S., 5. Jan 2021, *Proceedings of the 54th Annual Hawaii International Conference on System Sciences*. HICSS, p. 1404

**Introduction to the Minitrack on Intelligent Decision Support and Big Data for Logistics and Supply Chain Management**  
Pahl, J. & Voss, S., 7. Jan 2020, *Proceedings of the 53rd Annual Hawaii International Conference on System Sciences, HICSS 2020*. HICSS, p. 1276-1277

**A Secure Bet in the Maritime Supply Chain: Current Situation and Opportunities for Ports' Attractiveness**  
Pahl, J. & Cordova, M., 2020, *Handbook of Research on the Applications of International Transportation and Logistics for World Trade*. Ceyhun, G. Ç. (ed.). IGI global, 24 p.

**Integrated production lot size and distribution planning with shared warehouses**  
Pahl, J., 2019, *Computational Logistics: 10th International Conference, ICCL 2019, Proceedings*. Paternina-Arboleda, C. & Voß, S. (eds.). Springer, p. 332-349 (Lecture Notes in Computer Science, Vol. 11756 LNCS).

**Intelligent decision support for logistics and supply chain management - Introductory remarks**  
Voß, S., Sebastian, H. J. & Pahl, J., 2019, *Proceedings of the 52nd Annual Hawaii International Conference on System Sciences, HICSS 2019*. Bui, T. X. (ed.). IEEE Computer Society, p. 1516-1517 (Proceedings of the Annual Hawaii International Conference on System Sciences, Vol. 2019-January).

**Arctic Port Development**  
Pahl, J. & Kaiser, B., 2018, *Arctic Marine Resource Governance and Development*. Vertergaard, N., Kaiser, B. A., Fernandez, L. & Nymand Larsen, J. (eds.). Springer, p. 139-184 (Springer Polar Sciences).

**Arctic Ports: Local Community Development Issues**  
Kaiser, B. A., Pahl, J. & Horbel, C., 2018, *Arctic Marine Resource and Governance Development*. Vestergaard, N., Kaiser, B. A., Fernandez, L. & Nymand Larsen, J. (eds.). Springer, p. 185-217 33 p. (Springer Polar Sciences).

**Introduction to the minitrack on Intelligent Decision Support for Logistics and Supply Chain Management: An Ongoing Story**  
Voss, S., Sebastian, H.-J. & Pahl, J., 2018, *Proceedings of the 51st Hawaii International Conference on System Sciences*. HICSS, p. 1247-1248

**NATOs Green Defence-strategi & Green Defense Technology**  
Goodsite, M. E., Gerstlberger, W., Atlason, R. S., Pahl, J., Ren, J. & Cassotta, S., 5. Sept 2017. 15 p.

**CFK-Strukturen in der automobilen Serienfertigung**  
Pahl, J. & Geiger, R., 22. Aug 2017, In: *Lightweightdesign*. 10, 4, p. 52-57

**Carbon composite manufacturing in automotive volume production**  
Geiger, R. & Pahl, J., 2017, In: *Lightweight Design worldwide*. 10, 4, p. 46-51

**Green Defense-strategy & Green Defense Technology**  
Goodsite, M. E., Gerstlberger, W., Atlason, R. S., Pahl, J., Ren, J. & Cassotta, S., 2017. 15 p.

**Intelligent Decision Support and Big Data for Logistics and Supply Chain Management: A Biased View**  
Voss, S., Sebastian, H.-J. & Pahl, J., 2017, *Proceedings of the 50th Hawaii International Conference on System Sciences*. p. 1338-1340

**Maritime Load Dependent Lead Times - An Analysis**  
Pahl, J. & Voss, S., 2017, *Computational Logistics: Proceedings of the 8th International Conference, ICCL 2017, Southampton, UK, October 18-20, 2017*. Bektas, T., Coniglio, S., Martinez-Sykora, A. & Voss, S. (eds.). Springer, p. 300-306 6 p. (Lecture Notes in Computer Science, Vol. 10572).

### **Tactical Production and Lot Size Planning with Lifetime Constraints: A Comparison of Model Formulations**

Raiconi, A., Pahl, J., Gentili, M., Voß, S. & Ceruli, R., 2017, In: *Asia-Pacific Journal of Operational Research*. 34, 5, 24 p., 1750019.

### **Load Dependent Lead Times and Sustainability**

Pahl, J. & Voss, S., 2016, *Proceedings of the 2016 IEEE Symposium Series on Computational Intelligence*. IEEE Press, 8 p.

### **Manufacturing and Logistics Information Systems**

Pahl, J., Wood, L. & Reiners, T., 2015, *Encyclopedia of Information Science*. Khosrow-Pour, M. (ed.). 3 ed. Hershey, P.A., p. 1-10

Integrating deterioration and lifetime constraints in production and supply chain planning: A survey

Pahl, J. & Voß, S., 1. Nov 2014, In: *European Journal of Operational Research*. 238, 3, p. 654-674

Integrated Aircraft Scheduling Problem: An Auto-Adapting Algorithm to Find Robust Aircraft Assignments for Large Flight Plans

Reiners, T., Pahl, J., Maroszek, M. & Rettig, C., 2012, *45th Hawaii International Conference on System Sciences 2012*. IEEE Press, p. 1267-1276

### **Preface**

Pahl, J., Reiners, T. & Voß, S., 1. Jan 2011, In: *Lecture Notes in Computer Science*. 6701 LNCS

Discrete Lot-Sizing and Scheduling with Sequence-Dependent Setup Times and Costs including Deterioration and Perishability Constraints

Pahl, J., Voss, S. & Woodruff, D. L., 2011, *IEEE. HICSS-44*. 10 p.

### **Network Optimization - International Network Optimization Conference**

Pahl, J., Voss, S. & Reiners, T., 2011, (*Lecture Notes in Computer Science*).

Discrete Lot-Sizing and Scheduling Including Deterioration and Perishability Constraints

Pahl, J. & Voss, S., 2010, *Advanced Manufacturing and Sustainable Logistics, Proceedings of the 8th International Heinz Nixdorf Symposium*. Heidelberg: Springer, p. 345-357 (*Lecture Notes in Business Information Processing*).

### **Load-Dependent Lead Times with Depreciation Effects**

Pahl, J., 2009.

### **Logistik Management - Systeme, Methoden, Integration**

Pahl, J., Voss, S. & Schwarze, S., 2009, Heidelberg.

### **Production Planning and Deterioration Constraints: A Survey**

Pahl, J., Woodruff, D. L. & Voss, S., 2007, *The Development of Collaborative Production and Service Systems in Emergent Economies, Proceedings of the 19th International Conference on Production Research (IFPR)*. Valparaiso, Chile

Production Planning with Load Dependent Lead Times: An Update of Research

Pahl, J., Voß, S. & Woodruff, D. L., 2007, In: *Annals of Operations Research*. 153, 1, p. 297-345

### **Supply Chain Integration: Improvements of Global Lead Times with SCEM**

Pahl, J., Mies, A. & Voss, S., 10. Nov 2005, *Challenges for Industrial Production, Workshop of the PepOn Project: Integrated Process Design for Inter-Enterprise Plant Layout Planning of Dynamic Mass Flow Networks*. Karlsruhe, p. 79-89

### **Production Planning with Load Dependent Lead Times**

Pahl, J., 1. Sept 2005, In: 4OR. 3, 4, p. 257–302 46 p.

### **Load Dependent Lead Times – From Empirical Evidence to Mathematical Modeling**

Pahl, J. & Voss, S., 21. May 2005, *Research Methodologies in Supply Chain Management*. 1 ed. Physica, p. 540-554 14 p.

### **Load dependent lead times-From empirical evidence to mathematical modeling**

Pahl, J., Voß, S. & Woodruff, D. L., 2005

## **Activities**

### **Optimised navigation and port calls to reduce emissions**

Kozin, I. (Lecturer) & Pahl, J. (Co-author)

23. Mar 2023

### **IAME 2022 Conference**

Pahl, J. (Participant)

14. Sept 2022 → 16. Sept 2022

### **Public Transport - Operations and Planning (Journal)**

Pahl, J. (Peer reviewer)

20. Jan 2021

### **International Conference on Computational Logistics (Event)**

Pahl, J. (Member)

1. Jan 2021 → 20. Sept 2021

### **Congreso Panamericano de Transporte y Logística (Event)**

Pahl, J. (Member)

27. Sept 2020 → 30. Sept 2020

### **International Conference on Computational Logistics (Event)**

Pahl, J. (Member)

27. Sept 2020 → 30. Sept 2020

### **International Conference on Design, Automation, and Control**

Pahl, J. (Participant)

6. Jan 2020

### **Applied Sciences (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

### **Engineering Computations (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

### **European Journal of Operational Research (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**International Conference on Computational Logistics**

Pahl, J. (Participant)

1. Jan 2020 → 31. Dec 2020

**International Journal of Manufacturing Technology and Management (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Journal of Management Information Systems (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Journal of the Operational Research Society (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Processes (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Soft Computing (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Sustainability (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Transportation Research. Part A: Policy & Practice (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**Transportation research Part E (Journal)**

Pahl, J. (Peer reviewer)

1. Jan 2020 → 31. Dec 2020

**International Conference on Computational Logistics (Event)**

Pahl, J. (Member)

30. Sept 2019 → 2. Oct 2019

**15. Internationaler Wirtschaftsinformatik Kongress**

Pahl, J. (Participant)

1. Jul 2019 → 9. Mar 2020

**Hawaiian International Conference on System Sciences**

Pahl, J. (Participant) & Voss, S. (Participant)

1. Feb 2019 → 11. Jan 2020

**Hawaiian International Conference on System Sciences**

Pahl, J. (Participant)

1. Jan 2019 → 10. Jan 2020

**CLAIO 2018 (Event)**

Pahl, J. (Member)

24. Sept 2018 → 27. Sept 2018

**9th International Conference on Computational Logistics (Event)**

Pahl, J. (Member)

1. Sept 2018 → 3. Sept 2018

**Peruvian University of Applied Sciences**

Pahl, J. (Visiting lecturer)

23. Jul 2018 → 27. Jul 2018

**Panel Member at the Event "Lean Manufacturing"**

Pahl, J. (Panel member)

28. Mar 2018

**Peruvian University of Applied Sciences**

Pahl, J. (Visiting researcher)

26. Mar 2018 → 29. Mar 2018

**PhD Defense (Event)**

Pahl, J. (Chairman)

19. Dec 2017

**International Conference on Computational Logistics**

Pahl, J. (Participant)

18. Oct 2017 → 20. Oct 2017

**International Conference on Computational Logistics (Event)**

Pahl, J. (Member)

18. Oct 2017 → 20. Oct 2017

**International Conference on Computational Logistics (ICCL) 2017**

Pahl, J. (Guest lecturer)

18. Oct 2017 → 20. Oct 2017

**NATOs Green Defence-strategy & Green Defense Technology**

Goodsite, M. E. (Guest lecturer), Gerstlberger, W. (Guest lecturer), Pahl, J. (Guest lecturer), Atlason, R. S. (Guest lecturer), Cassotta, S. (Guest lecturer) & Ren, J. (Guest lecturer)

5. Sept 2017

**Symposium - International Forum for the new generation of young officers**

Pahl, J. (Organizer)

21. Aug 2017

**Applications of Optimization - AOO 2017**

Pahl, J. (Organizer) & Pacino, D. (Organizer)

8. May 2017

**HICSS**

Pahl, J. (Chairman)

4. Jan 2017

**St. John's University, New York, The Peter J. Tobin College of Business School of Risk Management**

Pahl, J. (Visiting researcher)

27. Dec 2016 → 3. Jan 2017

**IEEE SSCI 2016**

Pahl, J. (Participant)

6. Dec 2016 → 9. Dec 2016

**Maritime Logistics**

Pahl, J. (Lecturer)

6. May 2016 → 8. May 2016

**Maritime Load Dependent Lead Times**

Pahl, J. (Participant)

1. Jan 2016 → 31. Dec 2018

**Ukendt (External organisation)**

Pahl, J. (Participant)

29. Dec 2015 → ...

**Inform Annual Meeting**

Pahl, J. (Participant)

1. Nov 2015 → 4. Nov 2015

**7th Annual Logistics and Transport Workshop**

Pahl, J. (Speaker)

29. Sept 2015 → 2. Oct 2015

**Introduction to Information Systems**

Pahl, J. (Lecturer)

1. Oct 2011 → 28. Feb 2012

**International Network Optimization Conference 2011**

Pahl, J. (Participant)

13. Jun 2011 → 16. Jun 2011

**Information Management**

Pahl, J. (Lecturer)

1. Oct 2010 → 27. Feb 2011

**Information Management**

Pahl, J. (Lecturer)

1. Oct 2009 → 27. Feb 2010

**Statistics**

Pahl, J. (Lecturer)

1. Oct 2009 → 28. Feb 2010

**Logistik Management 2009**

Pahl, J. (Participant)

2. Sept 2009 → 4. Sept 2009

**Production and Supply Chain Management**

Pahl, J. (Lecturer)

1. Apr 2009 → 31. Jul 2009

## Information Management

Pahl, J. (Lecturer)

1. Oct 2008 → 27. Feb 2009

## Research Gate Profile

Pahl, J. (Other)

1. Jun 2008 → ...

## Production and Logistics

Pahl, J. (Lecturer)

1. Apr 2008 → 31. Jul 2008

## Work Experience

2015	Assistant Professor, SDU - Institute of Technology and Innovation
2013	Research Associate at the Fraunhofer-Center for Maritime Logistics and Services, Hamburg, Germany
2012	Postdoc at the University of Hamburg, Germany
2008	Research and Teaching Assistant at the University of Hamburg, Germany
2006	Corporate Controller at the German Aeronautic Agency, Cologne, Germany
2004	Young Graduate Trainee at the European Space Agency, Frascati, Italy

## Education and Formation(s)

2012	PhD in Production and SCM, title "Production Planning with Load Dependent Lead Times and Sustainability Aspects"
2007	Internal Auditor for ISO 9001
1997	Studies of Business Administration

## Research Interests

Production and Supply Chain Planning, (Load Dependent) Lead Time Management, Depreciation Issues, Green Logistics and Operations Management, (Green) Maritime Logistics, Airline Management

## Research Projects

2012-2013	Two-Year's DAAD PPP Vigoni Grant 2012-13 "Sustainability and Green Supply Chain Planning - Network Flow Formulations and Solution Methods" in collaboration with the Università degli Studi di Salerno, Dipartimento di Informatica, Assistant Professor Monica Gentili, Fisciano/Italy
2017-2018	Tow Year's Grant "Landesforschungsförderung Hamburg" for the project "Maritime Load Dependent Lead Times: Lead Time and Eco-Efficient Lean Management in the Maritime Supply Chain (M-LDLT)" in collaboration with the University of Paderborn, Prof. Dr. Kevin Tierney, and University of Hamburg, Prof. Dr. Stefan Voss