

Publications

Latest

- [Modeling Failure Risks in Load-Sharing Systems With Heterogeneous Components \(...\)](#) —
Journal Article

[Tim Pesch](#)

Authors: Tim Michael Pesch , Erhard Cramer , Edward Cripps , and Adriano Polpo , Senior Member, IEEE

2024-02-21

- [Modelling failure risks in load sharing systems with heterogeneous components \(...\)](#) —
Journal Article

[Tim Pesch](#)

Authors: Tim Pesch, Erhard Cramer, Edward Cripps, Adriano Polpo

2023-07-20

- [Embedding data science innovations in organizations: a new workflow approach \(...\)](#) —
[Dr Keyao Li](#)

Authors: Li, K., Griffin, M.A., Barker, T., Prickett, Z., Hodkiewicz, M.R., Kozman, J., and Chirgwin, P.

2023-11-03

- [CySpider: A Neural Semantic Parsing Corpus with Baseline Models for Property Graphs \(...\)](#) —
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Authors: Ziyu Zhao, Wei Liu, Tim French & Michael Stewart

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- [A Whole-of-Organisation Approach for Reliability Analytics \(...\)](#) —
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Authors: Melinda Hodkiewicz, Tyler Bikaun, Michael Stewart

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- [Long-term maintenance optimization for integrated mining operations \(...\)](#) —
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Authors: Yingying Yang, Ryan Loxton, Andrew L. Rohl, Hoa T. Bui

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- [Cutting Plane Algorithms are Exact for Euclidean Max-Sum Problems \(...\)](#) —
Journal Article

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Authors: Hoa T Bui, Sandy Spiers, Ryan Loxton

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- [SConE: Simplified cone embeddings with symbolic operators for complex logical queries \(...\)](#) —
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Authors: Chau Nguyen, Tim French, Wei Liu, Michael Stewart

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- [Managing Disputes for a Sustainable Construction: A Perspective of Settlement Facilitating Elements in Negotiations \(...\)](#) —

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Authors: Sen Lin, Keyao Li and Saion Cheung

2023-10-12

- [Bayer digestion maintenance optimisation with lazy constraints and Benders decomposition \(...\)](#) —

Journal Article

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Authors: Sandy Spiers, Hoa T. Bui, Ryan Loxton, Moussa Reda Mansour, Kylie Hollins, Richard Francis, Christopher Martindale, Yogesh Pimpale

2023-09-16

- [Unpacking human systems in data science innovations: Key innovator perspectives \(...\)](#) —

Journal Article

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Authors: Keyao Li, Mark A. Griffin

2023-09-11

- [Recurrence-based reconstruction of dynamic pricing attractors \(...\)](#) —

Journal Article

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Authors: Shuixiu Lu - Sebastian Oberst

2023-06-13

- [RelOps-A Whole-of-Organisation Approach for Reliability Analytics \(...\)](#) —

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- [CylIE: Cylinder Embeddings for Multi-hop Reasoning over Knowledge Graphs \(...\)](#) —

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2023-05-02

- [Selecting embedding delays: An overview of embedding techniques and a new method using persistent homology \(...\)](#) —

Journal Article

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Authors: Eugene Tan, Shannon Alga, Débora Corrêa, Michael Small, Thomas Stemler and David Walker¹

2023-03-01

- [Cutting plane algorithms for nonlinear binary optimization \(...\)](#) —

Journal Article

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Authors: Bui, Hoa; T Lin, Qun; Loxton, Ryan

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- [Using Context-Free Grammar to Generate Synthetic Technical Short Texts \(...\)](#) —

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Authors: Tyler Bikaun, Michael Stewart, Melinda Hodkiewicz

2022-12-03

- [Reliability inference with extended sequential order statistics \(...\)](#) —

Journal Article

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2023-04-11

- [MWO2KG and Echidna: Constructing and exploring knowledge graphs from maintenance data \(...\)](#) —

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Authors: Stewart M, Hodkiewicz M, Liu W, French T

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- [A Novel Approach to Time Series Complexity via Reservoir Computing \(...\)](#) —

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Authors: Braden Thorne, Thomas Jüngling , Michael Small , Debora Correa , and Ayham Zaitouny

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- [Safety behaviours and job satisfaction during the pandemic: The mediating roles of uncertainty and managerial commitment \(...\)](#) —

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- [Prevention-focused leadership and well-being during the pandemic: The mediating role clarity and workload \(...\)](#) —

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Authors: Li, Keyao Griffin, Mark A

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- [Single-Projection Procedure for Infinite Dimensional Convex Optimization Problems \(...\)](#) —

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Authors: Hoa T. Bui* Regina S. Burachik† Evgeni A. Nurminski‡ Matthew K. Tam

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- [Reservoir time series analysis: Using the response of complex dynamical systems as a universal indicator of change \(...\)](#) —

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Authors: Thorne, Braden Jüngling, Thomas Small, Michael Corrêa, Débora Zaitouny, Ayham

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- [Building a data-driven future for construction team? Capabilities matter \(...\)](#) —

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2022-06-05

- [Managing streamed sensor data for mobile equipment prognostics. \(...\)](#) —

Journal Article

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Authors: Griffiths, T., Corrêa, D., Hodkiewicz, M., & Polpo, A. (2022). Managing streamed sensor data for mobile equipment prognostics. Data-Centric Engineering, 3, E11. doi:10.1017/dce.2022.4

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- [Data-Driven Approach for Labelling Process Plant Event Data \(...\)](#) —

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Authors: Débora Corrêa, Adriano Polpo, Michael Small, Shreyas Srikanth, Kylie Hollins, Melinda Hodkiewicz

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- [The Impact of Changes in Resolution on the Persistent Homology of Images \(...\)](#) —

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- [Using job characteristics to inform interface design for industrial maintenance procedures \(...\) —](#)

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Authors: Woods, C., Griffin, M. A., French, T., & Hodkiewicz, M. (2021)

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1970-01-01

- [On using the modularity of recurrence network communities to detect change-point behaviour \(...\)](#) —

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- [Cleaning and visualization of unstructured text in safety records \(...\)](#) —

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2020-11-01

- [Pipeline for machine reading of unstructured maintenance work order records \(...\)](#) —

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- [Interpretable Survival Models for Predictive Maintenance \(...\)](#) —

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- [Maintenance in an Industry 4.0 and COVID world - the case for Remote Operations \(...\)](#) —

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- [Extremal Principle: Nonlinear Characterizations of Non-Intersection Properties \(...\)](#) —

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Authors: Dr Hoa Bui, Prof. Alex Kruger

2020-06-22

- [Sensing system for low cost condition monitoring of remote assets \(...\)](#) —

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- [Stillbirth risk prediction using machine learning for a large cohort of births from Western Australia, 1980–2015 \(...\)](#) —

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- [Fast automatic detection of geological boundaries from multivariate log data using recurrence \(...\)](#) —

Journal Article

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Authors: Michael Small; June Hill; Irina Emelyanova; Michael Ben Clennell
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- [Connectivity of cubical polytopes, Journal of Combinatorial Theory \(...\)](#) —

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2019-08-06

- [Some new characterizations of intrinsic transversality in Hilbert spaces \(...\)](#) —

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- [Quantifying the generalization capacity of Markov models for melody prediction \(...\)](#) —

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Authors: Corrêa, D. C., Jüngling, T., & Small, M.,

2020-02-17

- [Constrained Markov Order Surrogates \(...\)](#) —

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Authors: Corrêa, D. C., Moore, J. M., Jüngling, T., & Small, M.

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- [Minimizing equipment shutdowns in oil and gas campaign maintenance \(...\)](#) —

Journal Article

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2020-06-29

- [Reconstruction of Complex Dynamical Systems from Time Series using Reservoir Computing \(...\)](#) —

Journal Article

Prof Michael Small

Authors: Jüngling, T., Lymburn, T., Stemler, T., Corrêa, D., Walker, D. & Small, M.,

2019-05-01

- [Quadrant scan for multi-scale transition detection \(...\)](#) —

Journal Article

Dr Ayham Zaitouny

Authors: Zaitouny, A., Walker, D.M. and Small, M., 2019.

2019-10-08

- [Fast automatic detection of geological boundaries from multivariate log data using recurrence. \(...\)](#) —

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Dr Ayham Zaitouny

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2019-11-12

- [Sensitization to immune checkpoint blockade through activation of a STAT1/NK axis in the tumor microenvironment \(...\)](#) —

Journal Article

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Authors: Rachael M. Zemek, Emma De Jong, Wee Loong Chin, Iona S. Schuster, Vanessa S. Fear, Thomas H. Casey, Cath Forbes, Sarah J. Dart, Connall Leslie, Ayham Zaitouny, Michael Small, Louis Boon, Alistair R. R. Forrest, Daithi O. Muiri, Mariapia A. Degli-Esposti

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Authors: Li, K, Wang, D, Sheng, Z and Griffin, M

2021-09-06

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[Ryan Leadbetter](#)

Authors: Ryan Leadbetter; Alope Phatak; Adriano Polpo; Melinda Hodkiewicz

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[A/Prof Adriano Polpo](#)

Authors: Paul Castle, Janet Ham, Melinda Hodkiewicz, Adriano Polpo

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[Yingying Yang](#)

Authors: Yingying Yang, Ryan Loxton, Andrew L. Rohl, Hoa T. Bui

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Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: None

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- [Managing Disputes for a Sustainable Construction: A Perspective of Settlement Facilitating Elements in Negotiations \(...\)](#) —

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[Dr Keyao Li](#)

Authors: Sen Lin, Keyao Li and Saion Cheung

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[Dr Debora Correa](#)

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[Prof Ryan Loxton](#)

Authors: Z.Seif, R.Loxton, E.Mardaneh and A.Lockwood

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[Dr Michael Stewart](#)

Authors: Stewart M, Hodkiewicz M, Liu W, French T

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[Dr Ayham Zaitouny](#)

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[Dr Ayham Zaitouny](#)

Authors: David M. Walker, Ayham Zaitouny, Debora C. Correa*

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Journal Article

[Dr Aloke Phatak](#)

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A/Prof Wei Liu

Authors: Yiyang Gao, Caitlin Woods, Tim French, Melinda Hodkiewicz

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Dr Shuixiu Lu

Authors: Shuixiu Lu - Sebastian Oberst

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Book Chapter

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Tyler Bikaun, Michael Stewart

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[Braden Thorne](#)

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2022-02-10

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[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Sarah Lukens, Michael P. Brundage, Thurston Sexton

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[Dr Keyao Li](#)

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[Chau Nguyen](#)

Authors: Chau Nguyen, Tim French, Wei Liu, Michael Stewart

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[Dr Debora Correa](#)

Authors: Eugene Tan, Shannon Alga, Débora Corrêa, Michael Small, Thomas Stemler and David Walker¹

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[Tyler Bikaun](#)

Authors: Bikaun, T., & Hodkiewicz, M.

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[Prof Melinda Hodkiewicz](#)

Authors: Aiden J.Ziegelaar, Ben C.Travaglione, Melinda R.Hodkiewicz

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Journal Article

[Dr Ayham Zaitouny](#)

Authors: Rachael M. Zemek, Emma De Jong, Wee Loong Chin, Iona S. Schuster, Vanessa S. Fear, Thomas H. Casey, Cath Forbes, Sarah J. Dart, Connall Leslie, Ayham Zaitouny, Michael Small, Louis Boon, Alistair R. R. Forrest, Daithi O. Muiri, Mariapia A. Degli-Esposti

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[Dr Michael Stewart](#)

Authors: Michael Stewart, Wei Liu

2020-09-01

- [Single-Projection Procedure for Infinite Dimensional Convex Optimization Problems \(...\)](#) —

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[Dr Hoa Bui](#)

Authors: Hoa T. Bui* Regina S. Burachik† Evgeni A. Nurminski‡ Matthew K. Tam

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- [Some new characterizations of intrinsic transversality in Hilbert spaces \(...\)](#) —

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[Dr Hoa Bui](#)

Authors: Nguyen Hieu Thao, Hoa Bui, Nguyen Duy Cuong and Michel Verhaegen

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[Prof Melinda Hodkiewicz](#)

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[Prof Melinda Hodkiewicz](#)

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2020-11-02

- [The Impact of Changes in Resolution on the Persistent Homology of Images \(...\)](#) —

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Dr Hoa Bui

Authors: Teresa Heiss, Sarah Tymochko, Brittany Story, Adelie Garin, Hoa Bui, Bea Bleile, and Vanessa Robins

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- [Variable Selection for Conveyor-Belt Mean Wear Rate Prediction \(...\)](#) —

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Prof Melinda Hodkiewicz

Authors: Joanna Z Sikorska*, Callum Webb, Nazim Khan and Melinda Hodkiewicz

2021-02-26