

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 \(...\)](#) —
Conference Publishing

[Ziyu Zhao](#)

Authors: Ziyu Zhao, Wei Liu, Tim French & Michael Stewart

2023-11-27

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

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Tyler Bikaun, Michael Stewart

2023-02-16

- [Long-term maintenance optimization for integrated mining operations \(...\)](#) —
Journal Article

[Yingying Yang](#)

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

2023-11-16

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

[Dr Hoa Bui](#)

Authors: Hoa T Bui, Sandy Spiers, Ryan Loxton

2023-09-17

- [SConE: Simplified cone embeddings with symbolic operators for complex logical queries \(...\)](#) —
Conference Publishing

[Chau Nguyen](#)

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

2023-07-14

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

Journal Article

[Dr Keyao Li](#)

Authors: Sen Lin, Keyao Li and Saion Cheung

2023-10-12

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

Journal Article

[Sandy Spiers](#)

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

[Dr Keyao Li](#)

Authors: Keyao Li, Mark A. Griffin

2023-09-11

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

Journal Article

[Dr Shuixiu Lu](#)

Authors: Shuixiu Lu - Sebastian Oberst

2023-06-13

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

Book Chapter

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Tyler Bikaun, Michael Stewart

2023-02-16

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

Conference Publishing

[Chau Nguyen](#)

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

2023-05-02

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

Journal Article

[Dr Debora Correa](#)

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

[Dr Hoa Bui](#)

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

2022-03-18

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

Conference Publishing

[Tyler Bikaun](#)

Authors: Tyler Bikaun, Michael Stewart, Melinda Hodkiewicz

2022-12-03

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

Journal Article

[Tim Pesch](#)

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

2023-04-11

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

Journal Article

[Dr Michael Stewart](#)

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

2022-11-05

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

Conference Publishing

[Braden Thorne](#)

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

2022-12-07

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

Journal Article

[Dr Keyao Li](#)

Authors: Dr Keyao Li, Prof Mark Griffin

2022-09-01

- [A deep dive into worker psychological well-being in the construction industry: A systematic review and conceptual framework \(...\)](#) —

Journal Article

[Dr Keyao Li](#)

Authors: Keyao Li; Dan Wang; Zitong Sheng, and Mark A. Griffin,

2022-05-28

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

Journal Article

[Dr Keyao Li](#)

Authors: Li, Keyao Griffin, Mark A

2022-07-25

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

Journal Article

[Dr Hoa Bui](#)

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

2022-10-21

- [An exact cutting plane method for solving p-dispersion-sum problems \(...\)](#) —

Journal Article

[Sandy Spiers](#)

Authors: Sandy Spiers, Hoa T. Bui, Ryan Loxton

2022-07-22

- [Informative Bayesian Survival Analysis to Handle Heavy Censoring in Lifetime Data \(...\)](#) —

Conference Publishing

[Ryan Leadbetter](#)

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

2021-12-15

- [Automatic semantic knowledge extraction from electronic forms \(...\)](#) —

Journal Article

[A/Prof Timothy French](#)

Authors: Haolin Wu, Tim French, Wei Liu, Melinda Hodkiewicz

2022-05-23

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

Journal Article

[Braden Thorne](#)

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

2022-02-10

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

Conference Publishing

[Dr Keyao Li](#)

Authors: Keyao Li, Dan Wang, Mark Griffin

2022-06-05

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

Journal Article

[Dr Debora Correa](#)

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

2022-04-07

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

Journal Article

Dr Debora Correa

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

2022-01-24

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

Conference Publishing

Dr Hoa Bui

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

2022-01-13

- [E2EET: from pipeline to end-to-end entity typing via transformer-based embeddings \(...\)](#) —

Journal Article

Dr Michael Stewart

Authors: Michael Stewart, Wei Liu

2021-11-30

- [Approximate dynamic programming for an energy-efficient parallel machine scheduling problem \(...\)](#) —

Journal Article

Dr Mojtaba Heydar

Authors: Dr Mojtaba Heydar, Dr Elham Mardaneh, Proj Ryan Loxton

2022-10-01

- [On detecting dynamical regime change using a transformation cost metric between persistent homology diagrams. \(...\)](#) —

Journal Article

Dr Debora Correa

Authors: Dee Algar, S., Corrêa, D.C. and Walker, D.M

2021-12-17

- [Deforestation-induced surface warming is influenced by the fragmentation and spatial extent of forest loss in Maritime Southeast Asia \(...\)](#) —

Journal Article

Dr Debora Correa

Authors: Crompton, O., Corrêa, D., Duncan, J. and Thompson, S.,

2021-09-03

- [Objective Domain Boundaries Detection in New Caledonian Nickel Laterite from Spectra Using Quadrant Scan \(...\)](#) —

Journal Article

Dr Ayham Zaitouny

Authors: Zaitouny A, Ramanaidou E, Hill J, Walker DM, Small M

2022-01-01

- [Grading your models: Assessing dynamics learning of models using persistent homology \(...\)](#) —

Journal Article

Dr Debora Correa

Authors: Eugene Tan, Débora Corrêa, Thomas Stemler, Michael Small

2021-12-01

- [How Do Non-Work Individual Factors Affect Worker Well-Being in the Construction Industry? A Systematic Review and Meta- Analysis. \(...\) —](#)

Conference Publishing

[Dr Keyao Li](#)

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

2021-09-06

- [Semi-automated Estimation of Reliability Measures from MaintenanceWork Order Records \(...\) —](#)

Conference Publishing

[Tyler Bikaun](#)

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

2021-06-21

- [Detecting Asset Cascading Failures Using Complex Network Analysis \(...\) —](#)

Journal Article

[Dr Ayham Zaitouny](#)

Authors: Jaymin Moffatt; Ayham Zaitouny; Melinda Hodkiewicz; Michael Small

2021-08-27

- [Rethinking maintenance terminology for an industry 4.0 future \(...\) —](#)

Journal Article

[Prof Melinda Hodkiewicz](#)

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

2021-03-21

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

Conference Publishing

[Prof Mark Griffin](#)

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

2021-05-06

- [Parameter extraction with reservoir computing: Nonlinear time series analysis and application to industrial maintenance \(...\) —](#)

Journal Article

[Braden Thorne](#)

Authors: Thorne, B., Jüngling, T., Small, M., & Hodkiewicz, M. (2021).

2021-03-01

- [Building employability capabilities in data science students: An interdisciplinary, industry-focused approach \(...\) —](#)

Journal Article

[Dr Aloke Phatak](#)

Authors: Sonia Ferns, Aloke Phatak, Susan Benson, Nina Kumagai

2021-06-25

- [An ontology for reasoning over engineering textual data stored inFMEA spreadsheet tables \(...\) —](#)

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz,, Johan W. Klüwerb, Caitlin Woodsc, Thomas Smokerc, Emily Low
2021-05-27

- [The linkedness of cubical polytopes: The cube \(...\)](#) —

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa T. Bui, Guillermo Pineda-Villavicencio, Julien Ugon
1970-01-01

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

Journal Article

[Dr Ayham Zaitouny](#)

Authors: David M. Walker, Ayham Zaitouny, Debora C. Correa*
2021-03-01

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

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Joanna Z Sikorska*, Callum Webb, Nazim Khan and Melinda Hodkiewicz
2021-02-26

- [Geometric and Metric Characterizations of Transversality Properties \(...\)](#) —

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa T. Bui, Nguyen Duy Cuong, Alexander Y. Kruger
2020-03-05

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

Conference Publishing

[Dr Michael Stewart](#)

Authors: Michael Stewart¹, Wei Liu¹, Rachel Cardell-Oliver¹ And Mark Griffin
2020-11-01

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

Conference Publishing

[A/Prof Wei Liu](#)

Authors: Yiyang Gao, Caitlin Woods, Tim French, Melinda Hodkiewicz
2020-11-01

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

Conference Publishing

[A/Prof Adriano Polpo](#)

Authors: Paul Castle, Janet Ham, Melinda Hodkiewicz, Adriano Polpo
2020-11-01

- [Template Libraries for Industrial Asset Maintenance: A methodology for scalable and maintainable ontologies \(...\)](#) —

Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: Lupp, D.L., Hodkiewicz, M., and Skjæveland, M.G.

2020-11-02

- [DRAT: Data risk assessment Tool for University-Industry collaborations \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Sikorska, J., Bradley, S., Hodkiewicz, M. and Fraser, R.

2020-12-11

- [Technical Language Processing: Unlocking Maintenance Knowledge \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

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

2020-12-11

- [Optimal Thresholding of Predictors in Mineral Prospectivity Analysis \(...\)](#) —

Journal Article

[Dr Aloke Phatak](#)

Authors: Adrian Baddeley, Warick Brown, Robin K. Milne, Gopalan Nair, Suman Rakshit, Tom Lawrence, Aloke Phatak, and Shih Ching Fu

2020-11-11

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

Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: None

2020-11-01

- [Seq2KG: An End-to-End Neural Model for Domain Agnostic Knowledge Graph \(not Text Graph\) Construction from Text \(...\)](#) —

Conference Publishing

[Dr Michael Stewart](#)

Authors: Michael Stewart, Wei Liu

2020-09-01

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

Journal Article

[Dr Hoa Bui](#)

Authors: Dr Hoa Bui, Prof. Alex Kruger

2020-06-22

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

Conference Publishing

[Prof Melinda Hodkiewicz](#)

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

2020-12-18

- [Digitalization and reasoning over engineering textual data stored in spreadsheet tables \(...\)](#) —

Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Johan W. Klüwer, Caitlin Woods, Thomas Smoker, Tim French
2020-12-18

- [A Note on the Finite Convergence of Alternating Projections \(...\)](#) —

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa Bui, Ryan Loxton, Asghar Moeini
2021-05-09

- [Data-driven reliability analysis of Boeing 787 Dreamliner - ScienceDirect \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: G Pandian, M Pecht, E Zio, M Hodkiewicz
2020-03-12

- [Framework for Validation of Permanently Installed MEMS-Based Acquisition Devices Using Soft Sensor Models \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: A Bartels, E Cripps, A Keating, I Milne, B Travaglione, M Hodkiewicz
2020-07-28

- [Evaluating the Accuracy of Bluetooth-Based Travel Time on Arterial Roads: A Case Study of Perth, Western Australia \(...\)](#) —

Journal Article

[Dr Aloke Phatak](#)

Authors: Liu, Y., Xia, J., & Phatak, A.
2020-02-21

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

Journal Article

[Dr Aloke Phatak](#)

Authors: Malacova, E., Tippaya, S., Bailey, H.D. et al.
2020-03-24

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

Journal Article

[Dr Ayham Zaitouny](#)

Authors: Michael Small; June Hill; Irina Emelyanova; Michael Ben Clennell
2019-11-12

- [Developing and evaluating predictive conveyor belt wear models \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Callum Webb, Joanna Sikorska, Ramzan Nazim Khan, Melinda Hodkiewicz
2020-06-18

- [Connectivity of cubical polytopes, Journal of Combinatorial Theory \(...\)](#) —

Journal Article

Dr Hoa Bui

Authors: Hoa Bui, Guillermo Pineda-Villavicencio, Julien Ugon

2019-08-06

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

Journal Article

Dr Hoa Bui

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

2020-02-12

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

Journal Article

Dr Debora Correa

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

2020-02-17

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

Journal Article

Dr Debora Correa

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

2020-02-28

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

Journal Article

Prof Ryan Loxton

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

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. \(...\)](#) —

Journal Article

Dr Ayham Zaitouny

Authors: Zaitouny, A., Small, M., Hill, J., Emelyanova, I. and Clennell, M.B., 2020. Fast automatic detection of geological boundaries from multivariate log data using recurrence. Computers & Geosciences, 135, p.104362.

2019-11-12

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

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

2019-07-17

- [Branch-and-price for clash-free periodic supply vessel planning problem with split delivery and variable service time \(...\)](#) —

Journal Article

[Dr Elham Mardaneh](#)

Authors: Elham Mardaneh, Mojtaba Heydar, Ryan Loxton

2022-09-09

All

- [A deep dive into worker psychological well-being in the construction industry: A systematic review and conceptual framework \(...\)](#) —

Journal Article

[Dr Keyao Li](#)

Authors: Keyao Li; Dan Wang; Zitong Sheng, and Mark A. Griffin,

2022-05-28

- [A Note on the Finite Convergence of Alternating Projections \(...\)](#) —

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa Bui, Ryan Loxton, Asghar Moeini

2021-05-09

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

Conference Publishing

[Braden Thorne](#)

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

2022-12-07

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

Book Chapter

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Tyler Bikaun, Michael Stewart

2023-02-16

- [An exact cutting plane method for solving p-dispersion-sum problems \(...\)](#) —

Journal Article

Sandy Spiers

Authors: Sandy Spiers, Hoa T. Bui, Ryan Loxton

2022-07-22

- [An ontology for reasoning over engineering textual data stored inFMEA spreadsheet tables \(...\)](#) —

Journal Article

Prof Melinda Hodkiewicz

Authors: Melinda Hodkiewicz,, Johan W. Klüwerb, Caitlin Woodsc, Thomas Smokerc, Emily Low

2021-05-27

- [Approximate dynamic programming for an energy-efficient parallel machine scheduling problem \(...\)](#) —

Journal Article

Dr Mojtaba Heydar

Authors: Dr Mojtaba Heydar, Dr Elham Mardaneh, Proj Ryan Loxton

2022-10-01

- [Automatic semantic knowledge extraction from electronic forms \(...\)](#) —

Journal Article

A/Prof Timothy French

Authors: Haolin Wu, Tim French, Wei Liu, Melinda Hodkiewicz

2022-05-23

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

Journal Article

Sandy Spiers

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

2023-09-16

- [Branch-and-price for clash-free periodic supply vessel planning problem with split delivery and variable service time \(...\)](#) —

Journal Article

Dr Elham Mardaneh

Authors: Elham Mardaneh, Mojtaba Heydar, Ryan Loxton

2022-09-09

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

Conference Publishing

Dr Keyao Li

Authors: Keyao Li, Dan Wang, Mark Griffin

2022-06-05

- [Building employability capabilities in data science students: An interdisciplinary, industry-focused approach \(...\)](#) —

Journal Article

Dr Aloke Phatak

Authors: Sonia Ferns, Aloke Phatak, Susan Benson, Nina Kumagai

2021-06-25

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

Conference Publishing

[Dr Michael Stewart](#)

Authors: Michael Stewart¹, Wei Liu¹, Rachel Cardell-Oliver¹ And Mark Griffin
2020-11-01

- [Connectivity of cubical polytopes, Journal of Combinatorial Theory \(...\)](#) —

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa Bui, Guillermo Pineda-Villavicencio, Julien Ugon
2019-08-06

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

Journal Article

[Dr Debora Correa](#)

Authors: Corrêa, D. C., Moore, J. M., Jüngling, T., & Small, M.
2020-02-28

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

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa T Bui, Sandy Spiers, Ryan Loxton
2023-09-17

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

Journal Article

[Dr Hoa Bui](#)

Authors: Bui, Hoa; T Lin, Qun; Loxton, Ryan
2022-03-18

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

Conference Publishing

[Chau Nguyen](#)

Authors: Chau Nguyen, Tim French, Wei Liu, Michael Stewart
2023-05-02

- [CySpider: A Neural Semantic Parsing Corpus with Baseline Models for Property Graphs \(...\)](#) —

Conference Publishing

[Ziyu Zhao](#)

Authors: Ziyu Zhao, Wei Liu, Tim French & Michael Stewart
2023-11-27

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

Journal Article

[Dr Debora Correa](#)

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

2022-01-24

- [Data-driven reliability analysis of Boeing 787 Dreamliner - ScienceDirect \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: G Pandian, M Pecht, E Zio, M Hodkiewicz

2020-03-12

- [Deforestation-induced surface warming is influenced by the fragmentation and spatial extent of forest loss in Maritime Southeast Asia \(...\)](#) —

Journal Article

[Dr Debora Correa](#)

Authors: Crompton, O., Corrêa, D., Duncan, J. and Thompson, S.,

2021-09-03

- [Detecting Asset Cascading Failures Using Complex Network Analysis \(...\)](#) —

Journal Article

[Dr Ayham Zaitouny](#)

Authors: Jaymin Moffatt; Ayham Zaitouny; Melinda Hodkiewicz; Michael Small

2021-08-27

- [Developing and evaluating predictive conveyor belt wear models \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Callum Webb, Joanna Sikorska, Ramzan Nazim Khan, Melinda Hodkiewicz

2020-06-18

- [Digitalization and reasoning over engineering textual data stored in spreadsheet tables \(...\)](#) —

Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Johan W. Klüwer, Caitlin Woods, Thomas Smoker, Tim French

2020-12-18

- [DRAT: Data risk assessment Tool for University-Industry collaborations \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Sikorska, J., Bradley, S., Hodkiewicz, M. and Fraser, R.

2020-12-11

- [E2EET: from pipeline to end-to-end entity typing via transformer-based embeddings \(...\)](#) —

Journal Article

[Dr Michael Stewart](#)

Authors: Michael Stewart, Wei Liu

2021-11-30

- [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

- [Evaluating the Accuracy of Bluetooth-Based Travel Time on Arterial Roads: A Case Study of Perth, Western Australia \(...\)](#) —

Journal Article

[Dr Aloke Phatak](#)

Authors: Liu, Y., Xia, J., & Phatak, A.

2020-02-21

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

Journal Article

[Dr Hoa Bui](#)

Authors: Dr Hoa Bui, Prof. Alex Kruger

2020-06-22

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

Journal Article

[Dr Ayham Zaitouny](#)

Authors: Michael Small; June Hill; Irina Emelyanova; Michael Ben Clennell

2019-11-12

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

Journal Article

[Dr Ayham Zaitouny](#)

Authors: Zaitouny, A., Small, M., Hill, J., Emelyanova, I. and Clennell, M.B., 2020. Fast automatic detection of geological boundaries from multivariate log data using recurrence. Computers & Geosciences, 135, p.104362.

2019-11-12

- [Framework for Validation of Permanently Installed MEMS-Based Acquisition Devices Using Soft Sensor Models \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: A Bartels, E Cripps, A Keating, I Milne, B Travaglione, M Hodkiewicz

2020-07-28

- [Geometric and Metric Characterizations of Transversality Properties \(...\)](#) —

Journal Article

[Dr Hoa Bui](#)

Authors: Hoa T. Bui, Nguyen Duy Cuong, Alexander Y. Kruger

2020-03-05

- [Grading your models: Assessing dynamics learning of models using persistent homology \(...\)](#) —

Journal Article

[Dr Debora Correa](#)

Authors: Eugene Tan, Débora Corrêa, Thomas Stemler, Michael Small

2021-12-01

- [How Do Non-Work Individual Factors Affect Worker Well-Being in the Construction Industry? A Systematic Review and Meta- Analysis. \(...\)](#) —

Conference Publishing

[Dr Keyao Li](#)

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

2021-09-06

- [Informative Bayesian Survival Analysis to Handle Heavy Censoring in Lifetime Data \(...\)](#) —

Conference Publishing

[Ryan Leadbetter](#)

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

2021-12-15

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

Conference Publishing

[A/Prof Adriano Polpo](#)

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

2020-11-01

- [Long-term maintenance optimization for integrated mining operations \(...\)](#) —

Journal Article

[Yingying Yang](#)

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

2023-11-16

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

Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: None

2020-11-01

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

Journal Article

[Dr Keyao Li](#)

Authors: Sen Lin, Keyao Li and Saion Cheung

2023-10-12

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

Journal Article

[Dr Debora Correa](#)

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

2022-04-07

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

Journal Article

[Prof Ryan Loxton](#)

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

2020-06-29

- [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

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

Journal Article

[Dr Michael Stewart](#)

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

2022-11-05

- [Objective Domain Boundaries Detection in New Caledonian Nickel Laterite from Spectra Using Quadrant Scan \(...\)](#) —

Journal Article

[Dr Ayham Zaitouny](#)

Authors: Zaitouny A, Ramanaidou E, Hill J, Walker DM, Small M

2022-01-01

- [On detecting dynamical regime change using a transformation cost metric between persistent homology diagrams. \(...\)](#) —

Journal Article

[Dr Debora Correa](#)

Authors: Dee Algar, S., Corrêa, D.C. and Walker, D.M

2021-12-17

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

Journal Article

[Dr Ayham Zaitouny](#)

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

2021-03-01

- [Optimal Thresholding of Predictors in Mineral Prospectivity Analysis \(...\)](#) —

Journal Article

[Dr Aloke Phatak](#)

Authors: Adrian Baddeley, Warick Brown, Robin K. Milne, Gopalan Nair, Suman Rakshit, Tom Lawrence, Aloke Phatak, and Shih Ching Fu

2020-11-11

- [Parameter extraction with reservoir computing: Nonlinear time series analysis and application to industrial maintenance \(...\)](#) —

Journal Article

Braden Thorne

Authors: Thorne, B., Jüngling, T., Small, M., & Hodkiewicz, M. (2021).

2021-03-01

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

Conference Publishing

A/Prof Wei Liu

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

2020-11-01

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

Journal Article

Dr Keyao Li

Authors: Li, Keyao Griffin, Mark A

2022-07-25

- [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

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

Journal Article

Dr Debora Correa

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

2020-02-17

- [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

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

Journal Article

Dr Shuixiu Lu

Authors: Shuixiu Lu - Sebastian Oberst

2023-06-13

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

Journal Article

Tim Pesch

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

2023-04-11

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

Book Chapter

[Prof Melinda Hodkiewicz](#)

Authors: Melinda Hodkiewicz, Tyler Bikaun, Michael Stewart

2023-02-16

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

Journal Article

[Braden Thorne](#)

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

2022-02-10

- [Rethinking maintenance terminology for an industry 4.0 future \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

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

2021-03-21

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

Journal Article

[Dr Keyao Li](#)

Authors: Dr Keyao Li, Prof Mark Griffin

2022-09-01

- [SConE: Simplified cone embeddings with symbolic operators for complex logical queries \(...\)](#) —

Conference Publishing

[Chau Nguyen](#)

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

2023-07-14

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

Journal Article

[Dr Debora Correa](#)

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

2023-03-01

- [Semi-automated Estimation of Reliability Measures from MaintenanceWork Order Records \(...\)](#) —

Conference Publishing

[Tyler Bikaun](#)

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

2021-06-21

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

Conference Publishing

[Prof Melinda Hodkiewicz](#)

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

2020-12-18

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

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

2019-07-17

- [Seq2KG: An End-to-End Neural Model for Domain Agnostic Knowledge Graph \(not Text Graph\) Construction from Text \(...\)](#) —

Conference Publishing

[Dr Michael Stewart](#)

Authors: Michael Stewart, Wei Liu

2020-09-01

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

Journal Article

[Dr Hoa Bui](#)

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

2022-10-21

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

Journal Article

[Dr Hoa Bui](#)

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

2020-02-12

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

Journal Article

[Dr Aloke Phatak](#)

Authors: Malacova, E., Tippaya, S., Bailey, H.D. et al.

2020-03-24

- [Technical Language Processing: Unlocking Maintenance Knowledge \(...\)](#) —

Journal Article

[Prof Melinda Hodkiewicz](#)

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

2020-12-11

- [Template Libraries for Industrial Asset Maintenance: A methodology for scalable and maintainable ontologies \(...\)](#) —

Conference Publishing

[Prof Melinda Hodkiewicz](#)

Authors: Lupp, D.L., Hodkiewicz, M., and Skjæveland, M.G.

2020-11-02

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

Conference Publishing

Dr Hoa Bui

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

2022-01-13

- [The linkedness of cubical polytopes: The cube \(...\)](#) —

Journal Article

Dr Hoa Bui

Authors: Hoa T. Bui, Guillermo Pineda-Villavicencio, Julien Ugon

1970-01-01

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

Journal Article

Dr Keyao Li

Authors: Keyao Li, Mark A. Griffin

2023-09-11

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

Conference Publishing

Tyler Bikaun

Authors: Tyler Bikaun, Michael Stewart, Melinda Hodkiewicz

2022-12-03

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

Conference Publishing

Prof Mark Griffin

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

2021-05-06

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

Journal Article

Prof Melinda Hodkiewicz

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

2021-02-26