

Publications

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

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

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

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

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

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

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Authors: Keyao Li, Mark A. Griffin

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Authors: Shuixiu Lu - Sebastian Oberst

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

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2023-05-02

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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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

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

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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

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Prof Ryan Loxton

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

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Journal Article

Tim Pesch

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

2023-07-20

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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

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[Dr Debora Correa](#)

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

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- [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

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

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[Braden Thorne](#)

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

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

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[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

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[Dr Ayham Zaitouny](#)

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

2019-10-08

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[Dr Debora Correa](#)

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

2020-02-17

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[Prof Michael Small](#)

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

2019-05-01

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Journal Article

[Dr Shuixiu Lu](#)

Authors: Shuixiu Lu - Sebastian Oberst

2023-06-13

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[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 \(...\)](#) —

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[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

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[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 Maintenance Work Order Records \(...\)](#) —

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[Tyler Bikaun](#)

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

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- [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

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- [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
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[Dr Aloke Phatak](#)

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

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Journal Article

[Prof Melinda Hodkiewicz](#)

Authors: Michael P. Brundage, Thurston Sexton, Melinda Hodkiewicz, Alden Dima, Sarah Lukens
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- [Template Libraries for Industrial Asset Maintenance: A methodology for scalable and maintainable ontologies \(...\)](#) —

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[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 \(...\)](#) —

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[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

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[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