

Christoph Bergmeir

Curriculum Vitae
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Employment history

2022– **Visiting Researcher, Research Data Scientist**, Infrastructure Data Science, Meta Platforms Inc.
2020– **Senior Lecturer in Data Science and AI**, Faculty of Information Technology, Monash University
2019–2022 **ARC DECRA Fellow**, Faculty of Information Technology, Monash University, Melbourne
2018–2020 **Lecturer in Data Science and AI**, Faculty of Information Technology, Monash University
2014–2018 **Research Fellow (Applied Machine Learning)**, Faculty of Information Technology, Monash University
2013–2014 **Postdoctoral researcher** within the project OPTIRAIL (FP7), University of Granada, Spain

Other positions

2020–2022 **Director of Engagement**, Dept. of Data Science and AI, Faculty of IT, Monash University
2019–2020 **External Engagement Coordinator**, Dept. of Data Science and AI, Faculty of IT, Monash University
2018–2019 **External Engagement Coordinator**, Machine Learning Subgroup, Faculty of IT, Monash University
2015–2017 **Postdoctoral Fellow in Computer Science (Honorary)**, Information Services Dept, Alfred Health, Melbourne

Education and qualifications

2013 Ph.D. in Computer Science and Information Technology University of Granada, Spain
2009 Master in Soft Computing and Intelligent Systems University of Granada, Spain
2008 Dipl.-Inf. (equivalent to M.Sc.) in Computer Science University of Ulm, Germany

Honours and awards

2021 Dean's Award for Excellence in Research Enterprise, Monash University
2018 Dean's Award for Excellence in Research of an Early Career Researcher, Monash University

Editorial boards

1/2022– Associate Editor, International Journal of Forecasting

Research

- I have published in total 49 papers in international journals (listed on pages 7–9), and 23 papers in refereed conference proceedings (pages 10–11).
- My current research is about Machine Learning methods in time series forecasting, and involves Recurrent Neural Networks, feature extraction, and ensembling. I also do some research in local interpretability.
- I currently (co-)supervise one post-doctoral research fellow, 4 PhD students, 0 Minor Master's students, and 0 Honours students. I have previously (co-)supervised another 8 PhD students, 32 Minor Master's students, and 6 Honours students to completion.
- I have produced 13 R packages as a result of my research
- Four of my publications on time series forecasting are Clarivate Web of Science Highly Cited Papers (top 1% of their research field).

Highlights in 2021

- I have organised the "IEEE-CIS Technical Challenge on Predict+Optimize for Renewable Energy Scheduling"
- With my PhD student Dilini I won the "FUZZ-IEEE Explainable Energy Prediction Competition"
- I have organised an 8 hour training course in forecasting for an e-commerce company
- With others I host the Monash Time Series Forecasting Repository at forecastingdata.org
- My research on wind- and solar power forecasting was covered by several media outlets
- Our research on NeuralProphet was announced through Facebook and Twitter posts from FacebookAI

Grants

I have acquired, in most cases jointly with other researchers, about \$2.7 million in external funding since 2017. External grants over \$20,000 are as follows.

2021–2022	\$68,500	Hyndman, R., Bergmeir, C., Bandara, K., Wickramasuriya, S.. “DeepHTF: Global model based forecasting framework for large scales of hierarchically related time series”. <i>Funding from Facebook Inc</i>
2021–2022	\$26,700	Bergmeir, C. and Pan, S.. “Catch.com.au Forecasting Project”. <i>Funding from Catch.com.au</i>
2021–2022	\$117,200	Bergmeir, C.. “Tokopedia Forecasting Project”. <i>Funding from PT Tokopedia Limited</i>
2020–2021	\$35,986	Bergmeir, C.. “Forecasting Framework for PyTorch”. <i>Funding from Facebook Inc</i>
2020–2021	\$285,559	Bergmeir, C., Liebman, A., Stuckey, P., de Nijs, F.. “Virtual Power Plant Optimisation Project”. <i>Funding from CSR Building Products Limited</i>
2019–2022	\$377,829	Bergmeir, C.. “Efficient and effective analytics for real-world time series forecasting”. <i>Funding from ARC Discovery Early Career Researcher Award (DECRA)</i>
2019–2020	\$499,753	Nitchov, T., Marshment, D., Bergmeir, C., Brown, S., Danka, G., Vahid-Araghi, F., Miller, B., Hyndman, R., Ben Taieb, S., Salehi, M. and Khalilpour, K.. “Advisian Digital, Proof of Concept for Application of Advanced Short Term Power Generation Forecasting Technology for Wind and Solar Farms”. <i>Funding from Australian Renewable Energy Agency (ARENA)</i>
2019	\$69,789	Hyndman, R.J., Bergmeir, C.. “DeepForecast: Leveraging forecasts on large scales of related time series”. <i>Funding from Facebook Research Award</i>
2018–2020	\$370,000	Burbano, G., Hoban, T., Molnar, A., Fullelove, T., Ortega, E. G., Vivanco, J. P., de Mues, M. O., Razzaghi, R., Barnes, D., Abdallah, Z., Liebman, A., Rudolph, C., Polizzi, G., Bahrani, B., Varvarigos, M., Bergmeir, C., Khalilpour, K., Liu, J., Gawler, R., Pandey, S. and Dkhissi, Y.. “Monash’s Smart Energy City”. <i>Funding from Australian Renewable Energy Agency (ARENA)</i>
2018	\$95,381	Taniar, D., Lee, C. and Bergmeir, C.. “Data Analytics for Digital Metering”. <i>Funding from Yarra Valley Water</i>
2017–2018	\$86,586	Hyndman, R.J., Ben Taieb, S. and Bergmeir C.. “Demand forecasting for large-scale dynamic hierarchies in a big data environment”. <i>Funding from Huawei Innovation Research Program</i>
2017–2018	\$75,000	Kaye, D., Nanayakkara, S., Pilcher, D., Stub, D., Nasis, A., Cameron, J. and Bergmeir, C.. “Prediction of mortality following admission to intensive care after cardiac arrest”. <i>Funding from Alfred Health, Equity Trustees</i>
2017–2018	\$20,000	Bergmeir, C.. “Data Science in Energy Management of Heating and Cooling Loads”. <i>Funding from Zen Within Pty Ltd: AMSI Intern Project INT316</i>

Invited talks

Invited talks at academic conferences

1. Bergmeir, C (2020). Forecasting for Data Scientists. In: *Tutorial, 12th Asian Conference on Machine Learning (ACML), November 18-20 2020, Bangkok, Thailand (virtual)*.
2. Padt, F and C Bergmeir (2017). Optical retail clustering assisted hierarchical forecasting. In: *Invited practitioner talk, International Symposium on Forecasting (ISF) 2017, 25-28/6/2017 Cairns, Australia*.

Invited talks at industry conferences

1. Bergmeir, C (2021). Interpretability and Causal Inference for Global Time Series Forecasting Methods. In: *Meta Forecasting Summit, November 16 2021, Menlo Park (virtual)*.
2. Bergmeir, C (2020). Forecasting for Data Scientists. In: *Facebook Forecasting Summit, October 20 2020, Menlo Park (virtual)*.
3. Bergmeir, C (2019). Panel Discussion: How Can Artificial Intelligence Be Defined, Sold And Delivered Successfully Across Business Units And Stakeholders From Differing Industries. In: *4th Annual Artificial Intelligence for Enterprise Summit 2019, 13-14/8/2019, Sydney, Australia*.
4. Bergmeir, C (2019). How Machine Learning and Advanced Predictive Analytics Improves Demand Forecasting and Production Planning. In: *3rd Digital Supply Chain Innovation and Humanless Warehouse Forum, 29-30/10/2019, Melbourne, Australia*.
5. Bergmeir, C (2018). “Applied AI and Machine Learning”, Post-conference workshop. In: *Robotic Process Automation Asia 2018, 19-22/4/2018, Manila, Philippines*.
6. Bergmeir, C (2018). Procurement digitization: Impact on supply chain advancement. In: *Australasian Supply Chain Institute (ASCI) 2018, 23-24/5/2018, Sydney, Australia*.

7. Bergmeir, C (2018). Leveraging AI and Data Analytics to Improve Forecasting and Demand Planning. In: *Supply Chain Innovation Summit 2018, 18-20/9/2018, Melbourne, Australia*.
8. Bergmeir, C (2018). Reducing Supply Chain Forecasting Error and Improving Demand Planning with AI and Machine Learning. In: *Disruptive Innovation and Digital Transformation in Supply Chain, 18-20/9/2018, Melbourne, Australia*.
9. Bergmeir, C (2017). Masterclass "Artificial Intelligence for Enterprises". In: *Robotic Process Automation, Asia 2017, 7-9/6/2017, Singapore*.
10. Bergmeir, C (2017). State of the art hierarchical sales and demand forecasting. In: *Supply Chain Planning & Innovation 2017, 29-30/8/2017, Melbourne, Australia*.
11. Bergmeir, C (2016). Panelist, session "Delving into Machine Learning". In: *Artificial Intelligence for Enterprise Summit 2016, 13-14/9/2016, Sydney, Australia*.

Research Stays

- 09/2019 Research stay (3 weeks) at Uber Technologies, San Francisco, CA. Host: Slawek Smyl.
 06/2018–07/2018 Invited researcher (2 weeks) at School of Economics and Management
 Beihang University, Beijing, China. Host: Yanfei Kang.

During PhD and undergraduate studies (Internships, Stays at Other Centers):

- 04/2013–06/2013 Research stay at Dept. of Econometrics and Business Statistics, Monash University.
 Supervisor: Rob J. Hyndman. Funding: Ph.D. scholarship "FPU"
 10/2011–02/2012 Research stay at Dept. of Economics, University of Vienna, Austria.
 Supervisor: R. Kunst. Funding: Ph.D. scholarship "FPU"
 05/2008–09/2008 Internship at GE Global Research, Bangalore, India.
 02/2008–04/2008 Assistant at German Cancer Research Center, Heidelberg, Germany.
 04/2007–01/2008 Master's Thesis at German Cancer Research Center, Heidelberg, Germany.
 Development and Evaluation of Calibration Methods for 3D Ultrasound.
 09/2005–02/2006 University of Alcalá de Henares, Spain. Free-Mover Scholarship.

Accreditations

- 09/2014 Enabled as Assistant Professor, Contract Professor, and Private
 University Professor (Profesor Ayudante Doctor, Profesor Contratado Doctor,
 Profesor Universidad Privada) by the Spanish National Agency for evaluating
 the quality and accreditation of Professors (ANECA).

Teaching

At Monash University, Lecturer in the following subjects:

- 03/2018–11/2018 FIT3163/FIT3164: Data Science project 1 and 2.
 First time delivery. Chief examiner.
 Student Evaluation of Teaching Units (SETU) score for FIT3163:
 Median between 4.5 and 4.75 out of 5 in all of the 5 evaluated categories,
 with 6 responses in total.
- 07/2017–11/2017 FIT5120AA: Industry Experience Studio Project (Advanced Analytics Stream),
 Master of Data Science. First time delivery.
 Nominated by one of the students for a FIT Teaching Award.
 SETU score: Median between 4.13 and 4.63 out of 5 in all of
 the 5 evaluated categories, with 7 responses in total.
- 07/2017–11/2017 FIT5145: Introduction to Data Science,
 Master of Data Science. SETU score:
 Median between 4.10 and 4.30 out of 5 in all of the 5 evaluated categories,
 with 18 responses in total
- 01/2016 – 02/2016 (TP1), FIT5145: Introduction to Data Science,
 07/2016 – 08/2016 (TP4) online teaching, Graduate Diploma in Data Science (GDDS).
 SETU score TP1: Median 4.5 out of 5, with 10 responses in total.
 TP4: Median between 4.19 and 4.56 out of 5 in all of the 5 evaluated categories,
 with 17 responses in total.

During Ph.D. studies at University of Granada:

09/2012 – 02/2013 Teaching assistant in two problem classes of the lecture
“Models of Computation”, 6 ECTS (4 hours per week during one semester)

During undergraduate studies at University of Ulm:

10/2006–02/2007, 04/2006–07/2006, and 04/2005–07/2005	Helper to correct exercises and to create laboratory courseware and model solutions within the three lectures “Computer aided modeling and verification”, “Semantics of programming languages” and “Introduction to artificial intelligence”.
10/2004–02/2005	Tutor within the basic software internship.
08/2005, 03/2005, and 09/2004	Holding three times the revision course for theoretical Computer Science.

Honours, Masters and Ph.D. theses directed

- Level 1 Graduate Research Supervisor Accreditation, Monash University, (08/2017)
- I'm currently (co-)supervising 4 PhD students, and have (co-)supervised 8 PhD students to completion.

Ph.D. thesis supervision

2022–	Sherilyn Long	Bayesian methods for hierarchical time series forecasting Co-direction with Daniel Schmidt, Levin Kuhlmann
2020–	Abishek Sriramulu	Graph Neural Networks for time series forecasting Co-direction with Nicolas Fourier, Pablo Montero-Manso
2020–	Priscila Grecov	RNNs for Causal Analysis Co-direction with Klaus Ackermann
2019–2022	Jahan Penny-Dimri	Machine Learning Algorithms for Predicting and Risk Profiling in Cardiac Surgery Co-direction with Julian Smith
2019–2022	Md Mohaimenuzzaman	Deep Learning for the internet of things Co-direction with Bernd Meyer
2019–2022	Rakshitha Godahewa	Ensembling for Forecasting using recurrent neural networks Co-direction with Geoff Webb
2019–	Alexey Chernikow	Feature Generation methods for time series forecasting Co-direction with Chang-Wei Tan, Pablo Montero-Manso
2018–2021	Dilini Rajapaksha	Local Model-Agnostic Explanations for Machine Learning and Time-series Forecasting Models Co-direction with Wray Buntine
2018–2021	Hansika Hewamalage	Advancing Time Series Forecasting Techniques and Practices in a Big Data Environment Co-direction with Wray Buntine, Klaus Ackermann
2016–2020	Kasun Bandara	Forecasting sets of similar time series using recurrent neural networks Co-direction with Wray Buntine, Dan Lubman
2012–2016	Mabel González	Semi-supervised learning for time series classification Co-direction with I. Triguero and J.M. Benítez
2012–2015	Lala Septem Riza	Novel software solutions for Fuzzy Set and Rough Set theory Co-direction with F. Herrera and J.M. Benítez

Minor Master's thesis supervision

2021–2022	Hong Lan	Utility-based forecasting losses for global forecasting models
2021–2022	Joshua Mills	Forecasting and Optimisation
2021–2022	Zhangdi Song	Stability-adjusted global forecasting models
2021–2021	Aidan Quinn	Risk assessment and predicting aggression from time series using machine learning methods

2021–2021	Ankitha Nandipura	Causal Inference with Probabilistic Global Forecasting Models
2021–2021	Simran Gulati	Forecasting in Cryptocurrencies
2021–2021	Ziyi Liu	Time Series Forecasting under Concept Drift
2020–2021	Hayden Hughes	Automated content generation using machine learning and artificial intelligence techniques for synchronised mobile and classroom language learning. Co-direction with Jessica Chakowa
2020	Aijia Yang	Machine Learning for hierarchical time series forecasting. Co-direction with Mahdi Abolghasemi
2020	Alan Gewerc	RNNs for data imputation. Co-direction with Caroline Gao
2020	Arth Patel	Component extraction across time series
2020	Priscila Grecov	RNNs for Causal Analysis. Co-direction with Klaus Ackermann
2019–2020	Naveen Kaushik	Wavenet architectures for time series forecasting
2019–2020	Xinzhe Li	Failure Prediction for HVAC Systems using Machine Learning. Co-direction with Arnaud Prouzeau
2019	Chang Deng	Prediction and simulation for building management using Machine Learning. Co-direction with Arnaud Prouzeau
2019	Satyabrat Borgohain	Self-organising Neural Network Hierarchy. Co-direction with Levin Kuhlmann
2019	Shubham Diwe	Genetic Algorithms for Hierarchical time series forecasting
2019	Xiaocheng Jin	Ensembling methods for forecasting
2018–2019	Abishek Sriramulu	Multi-source transfer learning for time series forecasting
2018–2019	Yuan-Hao Liu	Transfer learning for time series forecasting with artificially generated data
2018	Alexey Chernikov	Autonomous unsupervised feature extraction from Time Series using Convolutional Neural Networks
2018	Chao Kai Hsu	Spatio-temporal analysis of smart meters data for short-term PV output forecasting. Co-direction with Lachlan Andrew
2018	Dong Lei Qian	Time Series Segmentation
2018	Michael Rodda	Improving Forecasting of Recurrent Neural Network Models Through Data Augmentation Via Generative Adversarial Networks
2017–2018	Christopher Keane	Clustering-assisted hierarchical time series forecasting
2017–2018	Erwin Wibowo	Bayesian Exponential Smoothing
2017	Marissa Fernandes	Predictive Modeling for the ANZICS Adult Patient Database
2017	Shang Wang	Clustering time series data using recurrent neural networks
2016–2017	Trevor Yann	Learning non-stationary distributions to classify multi-labelled data. Co-direction with Francois Petitjean
2016–2017	Xiaowei Zhang	PODES: Indonesian survey data analysis with a focus on village electrification. Co-direction with Lachlan Andrew
2013–2014	Jaime P. Benavides Acuña	Household electricity consumption forecasting: An empirical methodology to compare the model precision. Co-direction with J.M. Benítez
2012–2013	Sergio Ramírez Gallego	A forecasting methodology for elastic cloud resource provisioning. Co-direction with J.M. Benítez

Honours thesis supervision

2021–2021	Clinton Zhang	Optimisation with Probabilistic Forecasting
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2021–2021	Nashia Fairuz	Towards ML/AI generated content for language learning. Co-direction with Jessica Chakowa
2019	Julian Kardis	Beyond dropout for regularization. Co-direction with Klaus Ackermann
2019	Zhenxie Dong	Feature Selection for RNNs
2019	Zhihui Wang	Probabilistic Forecasting with RNNs
2017–2018	Zihao Yang	Porting Snob to Weka. Co-direction with Peter Tischer

Service

- 08/2017 Part of the Local Arrangements Committee as invitation chair/visa coordinator for the International Joint Conference on Artificial Intelligence (IJCAI) 2017, August 19-25, Melbourne.
- 03/2017 One of the organizers of the ANZICS Critical Care Datathon 2017, March 4-5, Melbourne.

Languages

German	native
English	advanced (IELTS overall band score: 8, minimum of 7 in every category)
Spanish	advanced (level similar to English)
Portuguese	basic
Russian	basic

Software (R packages)

- The package **setartree** implements a novel tree-based algorithm for time series forecasting (published on CRAN).
- The package **Rlgt** implements Local and Global Trend models, which is a novel class of exponential smoothing models, and fits them with Bayesian model fitting (published on CRAN).
- The package **RSNNS** is a comprehensive package for neural networks in R (published on CRAN).
- The package **Rmalschains** implements memetic algorithms in R (published on CRAN).
- The package **frbs** is a comprehensive package for fuzzy rule-based systems in R (published on CRAN). It is mainly developed by Lala S. Riza, and I maintain it.
- The package **RoughSets** is a comprehensive package for rough set and fuzzy rough set theory in R (published on CRAN). It is mainly developed by Lala S. Riza, and I maintain it.
- The package **ssc** is a package for semi-supervised classification in R (published on CRAN). It is mainly developed by Mabel González, and I maintain it.
- The package **forecast** is the most popular package for forecasting in R. It is developed by Rob J. Hyndman. I re-implemented part of the ets() function in C++, achieving considerable speedups.
- The package **tsDyn** (which is on CRAN) implements threshold autoregressive models. I implemented some patches and some (currently unpublished) extensions, mainly regarding neuro-coefficient STAR models.
- The package **tsExpKit** is a framework for time series experiments, aimed at the facilitation of performing well-documented, reproducible experimentation (currently published on github).
- The package **Rsiopred** is an R package for forecasting by exponential smoothing with model selection by a fuzzy multicriteria approach (currently unpublished).
- The package **Mcomp** contains data of the M3 forecasting competition. Its author is Rob J. Hyndman. I included the forecasts of the original competition participants into the package.
- The package **opusminer** provides an interface to the OPUS Miner algorithm (implemented in C++) for finding the key associations in transaction data efficiently, in the form of self-sufficient itemsets, using either leverage or lift. It is published on CRAN, I maintain it.
- The package **ChoR** is a wrapper for the java-implemented Chordalysis algorithm, which learns the structure of graphical models from datasets with thousands of variables. It is published on CRAN.

Refereeing

Member of the Program Committee of the following conferences:

- 11/2020 AAAI Conference on Artificial Intelligence (AAAI-21), February 2-9, 2021, virtually.
- 04/2020 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) September 14-18 2020, Ghent, Belgium.
- 09/2019 26th International Conference on Neural Information Processing (ICONIP), December 12-15 2019, Sydney.

Reviewer for the following journals:

- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Fuzzy Systems
- International Journal of Forecasting
- Computational Statistics and Data Analysis
- Computer Methods and Programs in Biomedicine
- Information Sciences
- International Journal of Computer Assisted Radiology and Surgery
- Cytometry Part A
- International Journal of Computational Intelligence Systems,
- International Journal of Approximate Reasoning
- Fuzzy Sets and Systems
- Progress in Artificial Intelligence
- Computers and Electrical Engineering
- Neural Computing and Applications
- Journal of Aerospace Technology and Management

Publications

My Google scholar profile can be found here: http://scholar.google.com/citations?user=_UG_SgUAAAAJ&hl=en
According to this profile, I have over 5400 citations and an H-index of 28.

Journal papers

1. Godahewa, R, GI Webb, D Schmidt, and C Bergmeir (2023). SETAR-Tree: A Novel and Accurate Tree Algorithm for Global Time Series Forecasting. *Machine Learning* (**forthcoming**).
2. Grossmann, I et al. (Feb. 2023). Insights into the accuracy of social scientists? forecasts of societal change. *Nature Human Behaviour*.
3. Mohaimenuzzaman, M, C Bergmeir, I West, and B Meyer (2023). Environmental Sound Classification on the Edge: A Pipeline for Deep Acoustic Networks on Extremely Resource-Constrained Devices. *Pattern Recognition* **133**, 109025.
4. Sriramulu, A, N Fourrier, and C Bergmeir (2023). Adaptive Dependency Learning Graph Neural Networks. *Information Sciences*.
5. Abolghasemi, M, G Tarr, and C Bergmeir (2022). Machine learning applications in hierarchical time series forecasting: Investigating the impact of promotions. *International Journal of Forecasting*.
6. Bandara, K, RJ Hyndman, and C Bergmeir (2022). MSTL: A Seasonal-Trend Decomposition Algorithm for Time Series with Multiple Seasonal Patterns. *International J Operational Research*.
7. Godahewa, R, C Bergmeir, GI Webb, and P Montero-Manso (2022). An Accurate and Fully-Automated Ensemble Model for Weekly Time Series Forecasting. *International Journal of Forecasting* (**forthcoming**).
8. Godahewa, R, C Deng, A Prouzeau, and C Bergmeir (2022). A Generative Deep Learning Framework Across Time Series to Optimize the Energy Consumption of Air Conditioning Systems. *IEEE Access* **10**, 6842–6855.
9. Grecov, P, AN Prasanna, K Ackermann, S Campbell, D Scott, DI Lubman, and C Bergmeir (2022). Probabilistic causal effect estimation with global neural network forecasting models. *IEEE Transactions on Neural Networks and Learning Systems*.
10. Hewamalage, H, K Ackermann, and C Bergmeir (2022). Forecast evaluation for data scientists: common pitfalls and best practices. *Data Mining and Knowledge Discovery*, 1–45.
11. Mohaimenuzzaman, M, C Bergmeir, and B Meyer (2022). Pruning vs XNOR-Net: A Comprehensive Study of Deep Learning for Audio Classification on Edge-Devices. *IEEE Access* **10**, 6696–6707.
12. Penny-Dimri, JC, C Bergmeir, L Perry, L Hayes, R Bellomo, and JA Smith (2022). Machine learning to predict adverse outcomes after cardiac surgery: A systematic review and meta-analysis. *Journal of Cardiac Surgery* **37**(11), 3838–3845.
13. Petropoulos, F, D Apiletti, et al. (2022). Forecasting: theory and practice. *International Journal of Forecasting* (**forthcoming**).
14. Rajapaksha, D, C Bergmeir, and RJ Hyndman (2022). LoMEF: A framework to produce local explanations for global model time series forecasts. *International Journal of Forecasting*.
15. Tan, CW, A Dempster, C Bergmeir, and GI Webb (2022). MultiRocket: Multiple pooling operators and transformations for fast and effective time series classification. *Data Mining and Knowledge Discovery* (**forthcoming**).
16. Abolghasemi, M, R Hyndman, E Spiliotis, and C Bergmeir (2021). Model selection in reconciling hierarchical time series. *Machine Learning* (**forthcoming**).

17. Bandara, K, C Bergmeir, and H Hewamalage (Apr. 2021). LSTM-MSNet: Leveraging Forecasts on Sets of Related Time Series with Multiple Seasonal Patterns. *IEEE Transactions on Neural Networks and Learning Systems* **32**(4), 1586–1599.
18. Bandara, K, H Hewamalage, YH Liu, Y Kang, and C Bergmeir (2021). Improving the accuracy of global forecasting models using time series data augmentation. *Pattern Recognition* **120**, 108148.
19. Godahewa, R, K Bandara, GI Webb, S Smyl, and C Bergmeir (2021). Ensembles of localised models for time series forecasting. *Knowledge-Based Systems* **233**, 107518.
20. Heffernan, AJ, S Judge, SM Petrie, R Godahewa, C Bergmeir, D Pilcher, and S Nanayakkara (2021). Association Between Urine Output and Mortality in Critically Ill Patients: A Machine Learning Approach. *Critical care medicine*.
21. Hewamalage, H, C Bergmeir, and K Bandara (2021). Recurrent neural networks for time series forecasting: Current status and future directions. *International Journal of Forecasting* **37**(1), 388–427.
22. Hewamalage, H, C Bergmeir, and K Bandara (2021). Global models for time series forecasting: A simulation study. *Pattern Recognition*, 108441.
23. Rajapaksha, D, C Tantithamthavorn, C Bergmeir, W Buntine, J Jiarpakdee, and J Grundy (2021). SQAPlanner: Generating data-informed software quality improvement plans. *IEEE Transactions on Software Engineering*.
24. Tan, CW, C Bergmeir, F Petitjean, and GI Webb (2021). Time series extrinsic regression. *Data Mining and Knowledge Discovery* **35**(3), 1032–1060.
25. Abdelkarim, H, M Durie, R Bellomo, C Bergmeir, O Badawi, K El-Khawas, and D Pilcher (2020). A comparison of characteristics and outcomes of patients admitted to the ICU with asthma in Australia and New Zealand and United States. *Journal of Asthma* **57**(4). (IF 2.081, Q3 in “Respiratory System”, JCR 2018), 398–404.
26. Bandara, H, C Bergmeir, and S Smyl (2020). Forecasting Across Time Series Databases using Recurrent Neural Networks on Groups of Similar Series: A Clustering Approach. *Expert Systems with Applications* **140**. (IF 4.292, Q1 in “Computer Science, Artificial Intelligence”, JCR 2018), 112896.
27. Rajapaksha, D, C Bergmeir, and W Buntine (2020). LoRMiKA: Local rule-based model interpretability with k-optimal associations. *Information Sciences* **540**, 221–241.
28. Baggio, D, T Peel, A Peleg, S Avery, M Prayaga, M Foo, G Haffari, M Liu, C Bergmeir, and M Ananda-Rajah (2019). Closing the gap in surveillance and audit of invasive mold diseases for antifungal stewardship using machine learning. *Journal of Clinical Medicine* **8**(9). (IF 5.688, Q1 in “Medicine, General & Internal”, JCR 2018), 1390.
29. Baldan, F, S Ramírez-Gallego, C Bergmeir, F Herrera, and JM Benítez (2018). A Forecasting Methodology for Workload Forecasting in Cloud Systems. *IEEE Transactions on Cloud Computing* **6**(4). (IF 5.967, top 4% (Q1) in “Computer Science, Information Systems”, and top 7% (Q1) in “Computer Science, Theory & Methods”, JCR 2018), 929–941.
30. Bergmeir, C, RJ Hyndman, and B Koo (2018). A Note on the Validity of Cross-Validation for Evaluating Autoregressive Time Series Prediction. *Computational Statistics and Data Analysis* **120**. (IF 1.323, Q2 ranking in “Statistics & Probability”, JCR 2018), 70–83.
31. González, M, C Bergmeir, I Triguero, Y Rodríguez, and JM Benítez (2018). Self-labeling techniques for semi-supervised time series classification: an empirical study. *Knowledge and Information Systems* **55**(2). (IF 2.397, Q2 in “Computer Science, Information Systems” and Q2 in “Computer Science, Artificial Intelligence”, JCR 2018), 493–528.
32. Nanayakkara, S, S Fogarty, M Tremeer, K Ross, B Richards, C Bergmeir, S Xu, D Stub, K Smith, M Tacey, D Liew, D Pilcher, and DM Kaye (2018). Characterising risk of in-hospital mortality following cardiac arrest using machine learning: A retrospective international registry study. *PLoS Medicine* **15** (11): e1002709. (IF 11.048, top 5% (Q1) in “Medicine, General & Internal”, JCR 2018), 1–16.
33. Peralta, D, C Bergmeir, M Krone, M Galende, M Menendez, GI Sainz-Palmero, CM Beltrand, F Klawonn, and JM Benítez (2018). Multiobjective Optimization for Railway Maintenance Plans. *Journal of Computing in Civil Engineering* **32**(3). (IF 2.554, Q2 in “Engineering, Civil” and Q2 in “Computer Science, Interdisciplinary Applications”, JCR 2018), 04018014, 1–11.
34. Petropoulos, F, RJ Hyndman, and C Bergmeir (2018). Exploring the sources of uncertainty: why does bagging for time series forecasting work? *European Journal of Operational Research* **268**. (IF 3.806, Q1 in “Operations Research & Management Sciences”, JCR 2018), 545–554.
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