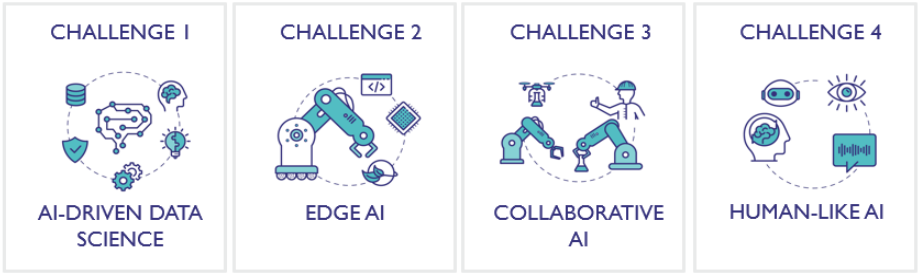
Publication List of the Flanders AI Research Program
Publications 2022

Publications with acknowledgement from the Flanders AI Reseearch Program - Published or accepted for publication

The program has four research "Grand Challenges"



For more info on the program, the research challenges and the contact persons:
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AI FLANDERS
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AI VLAANDEREN
BOUWEN AAN JE DIGITALE TOEKOMST

Publication	Link to publicly available copy of the publication	Grand Challenge
[Alegre2022] Lucas N. Alegre, Florian Felten, El-Ghazali Talbi, Grégoire Danoy, Ann Nowé, Ana L. C. Bazzan and Bruno C. da SilvaLucas N. Alegre, Florian Felten, El-Ghazali Talbi, Grégoire Danoy, Ann Nowé, Ana L. C. Bazzan and Bruno C. da Silva. MO-Gym: A Library of Multi-Objective Reinforcement Learning Environments. BNAIC/BeNeLearn 2022.	https://bnaic2022.uantwerpen.be/wp-content/uploads/BNAICBeNeLearn_2022_submission_6485.pdf	3
[Allebosch 2022] Allebosch, G. ; Van Hamme, D. ; Veelaert, P. ; Philips, W. , "Efficient detection of crossing pedestrians from a moving vehicle with an array of cameras", 2022, OE. 2022. SPIE. 62 (3)	https://doi.org/10.1117/1.OE.62.3.031210	2
[Amini2022] Amini, S., Van Nieuwenhuyse, I., A BAYESIAN OPTIMIZATION ALGORITHM FOR CONSTRAINED PROBLEMS WITH HETEROSCEDASTIC NOISE, 2022 Winter Simulation Conference, Singapore		1
[Amoni 2022] Amoni M, Ingelaere S, Moeyersons J, Vandenberk B, Claus P, Lemmens R, Van Huffel S, Sipido K, Varon C, Willems R, "Temporal Changes in Beat-to-Beat Variability of Repolarization Predict Imminent Nonsustained Ventricular Tachycardia in Patients With Ischemic and Nonischemic Dilated Cardiomyopathy", Journal of the American Heart Association,vol. 11/13 , 2022.		1
[Ansari 2022] Ansari AH, Pillay K, Dereymaeker A, Jansen K, Van Huffel S, Naulaers G, De Vos M, "A Deep Shared Multi-Scale Inception Network Enables Accurate Neonatal Quiet Sleep Detection With Limited EEG Channels", IEEE Journal of Biomedical and Health Informatics, vol. 26/3, pp. 1023-1033, 2022.		1
[Antoniadis 2022] Antoniadis I, Vercruyssen V, Davis J, "Systematic Evaluation of CASH Search Strategies for Unsupervised Anomaly Detection", In Proceedings of Learning with Imbalanced domains: Theory and Application Workshop at ECML		1
[Ashtari 2022] Ashtari P, Barile B, Van Huffel S, Sappey-Marinier D, "New multiple sclerosis lesion segmentation and detection using pre-activation U-Net", FRONTIERS IN NEUROSCIENCE, vol. 16, pp. , 2022.		1

[Aslam 2022] Aslam, M. ; Liu, W. ; Jiao, X. ; Haxhibeqiri, J. ; Miranda, G. ; Hoebeke, J. ; Marquez-Barja, J. ; Moerman, I. , "Hardware efficient clock synchronization across Wi-Fi and ethernet-based network using PTP", IEEE Trans. Ind. Inform. 2022. 18 (6) p.3808-3819, 2022		2
[Avalos2022] Avalos, Raphaël; Reymond, Mathieu; Nowe, Ann; Roijers, Diederik M. Local Advantage Networks for Cooperative Multi-Agent Reinforcement Learning. The 21st International Conference on Autonomous Agents and Multiagent Systems:	https://www.ifaamas.org/Proceedings/aamas2022/pdfs/p1524.pdf	3
[Avila-Campos 2022] Avila-Campos, P. ; Haxhibeqiri, J. ; Moerman, I. ; Hoebeke, J. , "Beacon-based wireless TSN association", IEEE INFOCOM 2022 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS). 2022. IEEE., 2022		2
[Avila-Campos 2022a] Avila-Campos, P. ; Haxhibeqiri, J. ; Jiao, X. ; Aslam, M. ; Miranda, G. ; Moerman, I. ; Hoebeke, J. , "Periodic Control Traffic Support in a Wireless Time-Sensitive Network", 2022, 2022 13th International Conference on Network of the Future (NoF). 2022. IEEE.	https://doi.org/10.1109/nof55974.2022.9942586	2
[Avila-Campos 2022b] Avila-Campos, P. ; Haxhibeqiri, J. ; Moerman, I. ; Hoebeke, J. , "Impactless beacon-based wireless TSN association procedure", 18TH IEEE INTERNATIONAL WORKSHOP ON FACTORY COMMUNICATION SYSTEMS		2
[Avila-Campos 2022c] Avila-Campos, P. ; Haxhibeqiri, J. ; Jiao, X. ; Moerman, I. ; Hoebeke, J. , "Removing the wires in time-sensitive networks", 2022, 2022 61st FITCE International Congress Future Telecommunications: Infrastructure and	https://doi.org/10.23919/fitce56290.2022.9934268	2
[Ayvaz 2022] Ayvaz M, De Lathauwer L, "CPD-Structured Multivariate Polynomial Optimization", Frontiers in Applied Mathematics and Statistics, vol. 8, pp. 1-24, 2022.		1
[Azriel 2022] Azriel R, Hahn CD, De Cooman T, Van Huffel S, Payne ET, McBain KL, Eytan D, Behar JA, "Machine learning to support triage of children at risk for epileptic seizures in the pediatric intensive care unit", Accepted for publication in Physiological Measurement, 2022.		1

[Bagheri2022] Bagheri, E., De Winter, J., & Vanderborght, B. (2022). Transparent Interaction Based Learning for Human-Robot Collaboration. Frontiers in Robotics and AI, 9.		3
[Bagot2022a] Louis Bagot, Kevin Mets, Tom De Schepper, Steven Latré. "A Case for Representation-based Succesor Features for Transfer in Reinforcement Learning". In 34th Benelux Conference on Aritficial Intelligence and the 31 Belgiun Dutch Conference on Machine Learning (BNAIC/BENELEARN 2021), 7-9 November, 2022,	https://bnaic2022.uantwerpen.be/wp-content/uploads/BNAIC	4
[Balemans2022] Balemans, Dieter, Phil Reiter, Jan Steckel, Peter Hellinckx. "Resource efficient AI: Exploring neural network pruning for task specialization". Internet of Things (20), 2022.	https://doi.org/10.1016/j.iot.2022.100599	2
[Bargiacchi2022] Eugenio Bargiacchi, Raphael Avalos, Timothy Verstraeten, Pieter Libin, Ann Nowé. Multi-agent RMax for Multi-Agent Multi-Armed Bandits. ALA 2022.	https://ala2022.github.io/papers/ALA2022_paper_38.pdf	3
[Barile 2022] Barile B, Ashtari P, Stamile C, Marzullo A, Maes F, Durand-Dubief F, Van Huffel S, Sappey-Marinier D, "Classification of multiple sclerosis clinical profiles using machine learning and grey matter connectome", Frontiers in Robotics and AI,		1
[Barlett2022] Bartlett, M. E., Edmunds, C. E. R., Belpaeme, T., & Thill, S. (2022). Have i got the power? Analysing and reporting statistical power in HRI. ACM Transactions on Human-Robot Interaction (THRI), 11(2), 1-16.	http://hdl.handle.net/1854/LU-8741074	4
[Bellemans 2022] Bellemans I, Vervliet N, De Lathauwer L, Moelans N, Verbeken K, "Towards more realistic simulations of microstructural evolution in oxidic systems", Calphad-Computer Coupling Of Phase Diagrams And Thermochemistry, vol. 77, pp. , 2022.		1
[Bhavanasi 2022] Bhavanasi, G. ; Werthen-Brabants, L. ; Dhaene, T. ; Couckuyt, I. , "Patient activity recognition using radar sensors and machine learning", 2022, Neural Comput. Appl. 2022.	https://doi.org/10.1007/s00521-022-07229-x	1
[Bhavanasi 2022] Bhavanasi, G. ; Werthen-Brabants, L. ; Dhaene, T. ; Couckuyt, I. , "Patient activity recognition using radar sensors and machine learning", Neural Comput. Appl. 2022., 2022		1

[Bleukx2022] Ignace Bleukx, Senne Berden, Lize Coenen, Nicholas Decleyre, Tias Guns: Model-Based Algorithm Configuration with Adaptive Capping and Prior	https://lirias.kuleuven.be/retrieve/665112	4
[Boeckaerts 2022] Boeckaerts, M. Stock, B. De Baets and Y. Briers, Identification of phage receptor-binding protein sequences with hidden Markov models and an extreme gradient boosting classifier, Viruses 14 (2022), 1329.		1
[Boes 2022] Boes W, Van Hamme H, "Multi-encoder attention-based architectures for sound recognition with partial visual assistance", EURASIP Journal on Audio Speech and Music Processing, 2022.	https://arxiv.org/pdf/2209.12826.pdf	4
[Bogaerts2022a] Bogaerts, Bart; Jakubowski, Maxime; Van Den Bussche, Jan. Expressiveness of SHACL Features. 25th International Conference on Database Theory (ICDT 2022). ed. / Dan Olteanu; Nils Vortmeier. Vol. 220 Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. p. 15:1-15:16 15 (Leibniz International Proceedings in Informatics (LIPIcs); Vol. 220).	https://drops.dagstuhl.de/opus/volltexte/2022/15889/pdf/LIPIcs-ICDT-2022-15.pdf	3
[Bogaerts2022b] Bogaerts, Bart; Jakubowski, Maxime; Van Den Bussche, Jan. SHACL: A Description Logic in Disguise. Logic Programming and Nonmonotonic Reasoning - 16th International Conference, LPNMR 2022, Genova, Italy, September 5-9, 2022, Proceedings. Vol. 13416 Springer, 2022. p. 75-88 (Lecture Notes in Computer	https://link.springer.com/chapter/10.1007/978-3-031-15707-3_7	3
[Bonet 2022] Bonet, E. R. ; Do, T. H. ; Qin, X. ; Hofman, J. ; Manna, V. P. L. ; Philips, W. ; Deligiannis, N. , "Explaining Graph Neural Networks With Topology-Aware Node Selection: Application in Air Quality Inference", IEEE Transactions on Signal and Information Processing over Networks. 2022. 8 p.499-513, 2022		2
[Booth 2022] Booth, B.G.; Heylen, R.; Nourazar, M.; Verhees, D.; Philips, W.; Bey-Temsamani, A. Encoding Stability into Laser Powder Bed Fusion Monitoring Using Temporal Features and Pore Density Modelling. Sensors 2022, 22, 3740	https://www.mdpi.com/1424-8220/22/10/3740	1
[Botman 2022] Botman L, Lago J, Becker T, Agudelo O M, Vanthournout K, De Moor B, "A scalable method for probabilistic short-term forecasting of individual households consumption in low voltage grids", Accepted for publication in the IEEE PES Grid Edge Technologies Conference & Exposition, 2022.		1

[Botman 2022b] Botman L, Soenen J, Theodorakos K, Yurtman A, Bekker J, Vanthournout K, Blockeel H, De Moor B, Lago J, "A scalable ensemble approach to forecast the electricity consumption of households", Accepted for publication in IEEE Transactions On Smart Grid, 2022.	doi: 10.1109/TSG.2022.3191399	1
[Buelens 2022] Buelens P, Willems S, Vandewinckele L, Crijns W, Maes F, Weltens C G, "Clinical evaluation of a deep learning model for segmentation of target volumes in breast cancer radiotherapy", Radiotherapy and Oncology 171, pp. 84-90,		1
[Buhmann2022a] Jeska Buhmann, Maxime De Bruyn, Ehsan Lotfi and Walter Daelemans. "Domain- and Task-Adaptation for VaccinChatNL, a Dutch COVID-19 FAQ Answering Corpus and Classification Model", 29th International Conference on Computational Linguistics (COLING), 2022	https://aclanthology.org/2022.coling-1.312.pdf	4
[Buhmann2022b] Jeska Buhmann, Maxime De Bruyn, Ehsan Lotfi and Walter Daelemans. "Domain- and Task-Adaptation for VaccinChatNL, a Dutch COVID-19 FAQ Answering Corpus and Classification Model". In 34th Benelux Conference on Aritficial Intelligence and the 31 Belgiun Dutch Conference on Machine Learning (BNAIC/BENELEARN 2021), 7-9 November, 2022,	https://bnaic2022.uantwerpen.be/wp-content/uploads/BNAIC	4
[BuiThi 2022b] Bui-Thi D, Rivière E, Meysman P, Laukens K. Predicting compound-protein interaction using hierarchical graph convolutional networks. PloS one. 2022 Jul 21;17(7):e0258628.	https://doi.org/10.1371/journal.pone.0258628	1
[Buyl 2022a] Buyl, M., Cociancig, C., Frattone, C., & Roekens, N. (2022, June). Tackling Algorithmic Disability Discrimination in the Hiring Process: An Ethical, Legal and Technical Analysis. In 2022 ACM Conference on Fairness, Accountability, and Transparency (pp. 1071-1082).		1
[Buyl 2022b] Buyl, M. and De Bie, T. Optimal Transport of Classifiers to Fairness. Conference on Neural Information Processing Systems (NeurIPS), Advances in Neural Information Processing Systems, 2022.		1

[Cao2022] Cao, H. L., Vanderborght, R. S., Krepel, N., Vanderborght, B., & Vanderfaeillie, J. (2022). Could NAO robot function as model demonstrating joint attention skills for children with autism spectrum disorder? An exploratory study. International Journal of Humanoid Robotics.		3
[Cardoen2022] T. Cardoen, S. Leroux, and P. Simoens, "Iterative Online 3D Reconstruction from RGB Images," SENSORS, vol. 22, no. 24, 2022.	https://doi.org/10.3390/s22249782	2
[Cassimon2022a] Cassimon, Thomas, Reinout Eyckerman, Siegfried Mercelis, Steven Latré and Peter Hellinckx, "A Survey on Discrete Multi-Objective Reinforcement Learning Benchmarks". Adaptive Learning Agents (ALA) workshop at AAMAS, 2022.	https://ala2022.github.io/papers/ALA2022_paper_16.pdf	2
[Cassimon2022b] Thomas Cassimon, Liam Hertoghs, Simon Vanneste, Phil Reiter, Kevin Mets, Tom De Schepper, Siegfried Mercelis and Peter Hellinckx. "Predicting Image Classifier Performance Using the Synthetic Petri Dish Method ". In 34th Benelux Conference on Aritficial Intelligence and the 31 Belgiun Dutch Conference on Machine Learning (BNAIC/BENELEARN 2021), 7-9 November, 2022,	https://bnaic2022.uantwerpen.be/wp-content/uploads/BNAIC	2
[Castillo-Escario 2022] Castillo-Escario, Y. ; Werthen-Brabants, L. ; Groenendaal, W. ; Deschrijver, D. ; Jane, R. , "Convolutional neural networks for apnea detection from smartphone audio signals : effect of window size", 2022, 2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC). 2022. p.666-669	https://doi.org/10.1109/embc48229.2022.9871396	1
[Catal2022] Catal, O. ; Verbelen, T. ; Wang, N. ; Hartmann, M. ; Dhoedt, B. , "Bio-inspired monocular drone SLAM", DroneSE and RAPIDO : System Engineering for constrained embedded systems. 2022. Association for Computing Machinery (ACM). p.21-26, 2022		2
[Chakroun2022] Imen Chakroun, Geert Vanmeerbeeck, Roel Wuyts, Wilfried Verachtert, "AI privacy preserving robots working in a smart sensor environment",		2
[Chen2022] Chen Y, Hu SX, Shen X, Ai C, Suykens JA K, "Compressing Features for Learning With Noisy Labels", IEEE Transactions on Neural Networks and Learning Systems, vol. , pp. , 2022.		1

[Chesterman2022] Chesterman, Xavier; Verstraeten, Timothy; Daems, Pieter-Jan; Perez Sanjines, Fabian Ramiro; Nowe, Ann; Helsen, Jan. The detection of generator bearing failures on wind turbines using machine learning based anomaly detection. Journal of Physics Conference Series . Vol. 2265 3. ed. IOP Publishing, 2022. (Journal of Physics: Conference Series).	https://iopscience.iop.org/article/10.1088/1742-6596/2265/3/032066	3
[Chesterman2022b] X. Chesterman, T. Verstraeten, PJ. Daems, A. Nowé and J.Helsen, "Condition monitoring of wind turbines and extraction of healthy training data using an ensemble of advanced statistical anomaly detection models", Proceedings of the Annual conference of the PHM Society, Vol. 13, No. 1		1
[Clauwaert 2022] J. Clauwaert and W. Waegeman, "Novel transformer networks for improved sequence labeling in genomics", IEEE/ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, vol. 19, no. 1, 2022, pp. 97–106	http://hdl.handle.net/1854/LU-8721761	1
[Colleman 2022] Colleman S, Zhu P, Sun W, Verhelst M, "Optimizing Accelerator Configurability for Mobile Transformer Networks". In Proceedings of the 2022 IEEE 4th International Conference on Artificial Intelligence Circuits and Systems (AICAS), pp. 142-145, 2022.	doi: 10.1109/AICAS54282.2022.9869945	2
[Convens2022b] Convens, B., Merckaert, K., Nicotra, M. M., & Vanderborght, B. (2022). Safe, Fast, and Efficient Distributed Receding Horizon Constrained Control of Aerial Robot Swarms. IEEE Robotics and Automation Letters, 7(2), 4173-4180.		3
[Coppers2022] Sven Coppers, Davy Vanacken, and Kris Luyten. 2022. FortClash: Predicting and Mediating Unintended Behavior in Home Automation. Proc. ACM Hum.-Comput. Interact. 6, EICS, Article 154 (June 2022), 20 pages.	https://doi.org/10.1145/3532204	4
[Cornejo 2022] Cornejo, M. E. ; Lobo, D. ; Medina, J. ; De Baets, B. , "Bipolar equations on complete distributive symmetric residuated lattices : the case of a join-irreducible right-hand side", Fuzzy Sets Syst. 2022. 442 p.92-108, 2022		1
[Couckuyt 2022] A. Couckuyt, R. Seurinck, A. Emmaneel, K. Quintelier, D. Novak, S. Van Gasse, Y. Saeys: Challenges in translational machine learning. Hum Genet. 2022 Sep;141(9):1451-1466		1

[Couckuyt 2022] A. Couckuyt, R. Seurinck, A. Emmaneel, K. Quintelier, D. Novak, S. Van Gasse, Y. Saeys: Challenges in translational machine learning. Hum Genet. 2022 Sep;141(9):1451-1466		1
[Dan 2022] Dan, Y. ; De Baets, B. , "Lifting associative operations on subposets of a complete lattice", Fuzzy Sets Syst. 2022. 441 p.286-309, 2022		1
[Dan 2022] Dan, Y. ; Hu, B. Q. ; De Baets, B. , "Nullnorms on bounded lattices constructed by means of closure and interior operators", Fuzzy Sets Syst. 2022. 439 p.142-156, 2022		1
[Dan 2022a] Dan J, Geirnaert S, Bertrand A, "Grouped Variable Selection for Generalized Eigenvalue Problems", Accepted for publication in Signal Processing,		1
[Davis 2022] Davis J, Bransen L, Devos L, Meert W, Robberechts P, Van Haaren J, Van Roy M, "Evaluating Sports Analytics Models: Challenges, Approaches, and Lessons Learned", AI Evaluation Beyond Metrics Workshop at IJCAI 2022, 3169, pp.		1
[De Bie 2022] De Bie, T. ; De Raedt, L. ; Hernández-Orallo, J. ; Hoos, H. H. ; Smyth, P. ; Williams, C. K. I. , "Automating data science", Commun. ACM. 2022. 65 (3) p.76-87, 2022	10.1145/3495256	1
[De Bosscher 2022] De Bosscher R, Moeyersons J, Dausin C, Claeys M, Janssens K, Claus P, Goetschalckx K, Bogaert J, Van de Heyning CM, Paelinck B, Sanders P,		1
[De Brabandere 2022] De Brabandere A, Cao Z, De Vos M, Bertrand A, Davis J, "Semi-supervised change point detection using active learning", Accepted for publication in the International conference on Discovery Science 2022, 2022.		1
[De Brouwer 2022] De Brouwer E, Becker T, Werthen-Brabants L, et al., "Machine-learning-based prediction of disability progression in multiple sclerosis: an observational, international, multi-center study", medRxiv,, 2022.	doi: https://doi.org/10.1101/2022.09.08.22279617	1
[De Pauw2022] [De Pauw2022] Joey De Pauw, Koen Ruymbeek, Bart Goethals. "Who do you think I am? Interactive User Modelling with Item Metadata". In Proceedings of the 16th ACM Conference on Recommender Systems, pages 640–643, 2022 Association for Computing Machinery.	https://doi.org/10.1145/3523227.3551470	4

[DeBlock 2022] De Block S, Bekker J, "Bagging Propensity Weighting: A Robust method for biased PU Learning", In Proceedings of Learning with Imbalanced domains: Theory and Application Workshop at ECML 2022, 2022		1
[DeBruyn2022a] Maxime De Bruyn, Ehsan Lotfi, Jeska Buhmann and Walter Daelemans. "Open-Domain Dialog Evaluation using Follow-Ups Likelihood", 29th International Conference on Computational Linguistics (COLING), 2022	https://aclanthology.org/2022.coling-1.40.pdf	4
[DeBruyn2022b] Maxime De Bruyn, Ehsan Lotfi, Jeska Buhmann, Walter Daelemans. "Is It Smaller Than a Tennis Ball? Language Models Play the Game of Twenty Questions", EMNLP 2022 Workshop BlackboxNLP, 2022		4
[DeBruyn2022c] Maxime De Bruyn, Ehsan Lotfi, Jeska Buhmann, Walter Daelemans. "Machine Translation for Multilingual Intent Detection and Slots Filling", EMNLP 2022 Workshop on Massively Multilingual NLU, 2022		4
[DeBruyn2022d] Maxime De Bruyn, Ehsan Lotfi, Jeska Buhmann, Walter Daelemans. "Overlap-Free World Knowledge Benchmark for Language Models", EMNLP 2022 2nd Workshop on Generation, Evaluation, and Metrics (GEM), 2022		4
[Dedja 2022] Dedja K, Nakano F K, Pliakos K, Vens C, "Explaining a Random Survival Forest by Extracting a few prototype rules", In Communications in Computer and Information Science, vol. 1525, pp. 451-458.		1
[DeGroote 2022] De Groote, W. ; Van Hoecke, S. ; Crevecoeur, G. , "Physics-based neural network models for prediction of cam-follower dynamics beyond nominal operations", IEEE-ASME Trans. Mechatron. 2022. 27 (4) p.2345-2355, 2022		1
[Dekker2022] Dekker, Peter; Klamer, Marian; De Boer, Bart. Language-specific and universal factors behind morphological simplification: An agent-based modelling study of Alorese. Proceedings of the Joint Conference on Language Evolution. 2022. ed. Joint Conference on Language Evolution, 2022. p. 57-59.	https://evolang.org/jcole2022/proceedings/papers/JCoLE2022_paper_189.pdf	3

[Delgrange2022] Delgrange, Florent; Nowé, Ann; Pérez, Guillermo A. Distillation of RL Policies with Formal Guarantees via Variational Abstraction of Markov Decision Processes. Proceedings of the AAAI Conference on Artificial Intelligence: Vol. 36 No. 6: AAAI-22 Technical Tracks 6. Vol. 36 First. ed. Palo Alto, California USA : AAAI Press, 2022. p. 6497-6505 (Proceedings of the AAAI Conference on Artificial Intelligence; Vol. 36, No. 6).	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwiT6bel6fv6AhUIgP0HHe8RC50QFnoECAsQAQ&url=https%3A%2F%2Fojs.aaai.org%2Findex.php%2FAAAI%2Farticle%2Fview%2F20602%2F20361&usg=AOvVaw0kE6sL4pppO4CSkwcH8GWf	3
[Delobelle 2022a] Delobelle P, Winters T, Berendt B," RobBERTje: A Distilled Dutch BERT Model", Computational Linguistics in the Netherlands Journal, vol. 11, pp. 125-140, 2022		1
[Delobelle 2022b] Delobelle P, Tokpo, E K, Calders T, Berendt B, "Measuring Fairness with Biased Rulers: A Comparative Study on Bias Metrics for Pre-trained Language Models", In Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics, pp. 1693-1706, 2022	https://aclanthology.org/2022.naacl-main.122.pdf	1
[Delobelle 2022c] Delobelle P, Berendt B, "FairDistillation: Mitigating Stereotyping in Language Models", In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases 2022 (ECML PKDD 2022), 2022.		1
[Delva2022] T. Delva, A. Dimou, M. Jakubowski, and J. Van den Bussche. Data Provenance for SHACL. Accepted for oral presentation at the forthcoming 26th International Conference on Extending Database Technology (28–31 March 2023, Ioannina, Greece).		3
[DePessemier] De Pessemier, T., Vanhove, S., & Martens, L. (2022). Batch versus sequential active learning for recommender systems. Proceedings of the 4th Workshop on Online Recommender Systems and User Modeling (ORSUM 2021), in conjunction with the 15th ACM Conference on Recommender System (RecSys 2021)	https://arxiv.org/abs/2201.07571	4

[Deschepper 2022] M Deschepper, SO Labeau, W Waegeman, SI Blot. Heterogeneity hampers the identification of general pressure injury risk factors in intensive care populations: A predictive modelling analysis, Intensive and Critical Care Nursing 68, 103117		1
[DeTre 2022] G. De Tré, M. Peelman, J. Dujmović, Logic Operators and Sibling Aggregators for Z-grades, Proceedings of 19th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2022, July 11-15, Milan, Italy, Communications in Computer and Information Science, Vol. 1602, Springer, Cham, 2022, pp. 572-583.		1
[DeWaele 2022] G De Waele, J Clauwaert, G Menschaert, W Waegeman, CpG Transformer for imputation of single-cell methylomes Bioinformatics 38 (3), 597-603, 2022		1
[DeWel 2022] De Wel B, Huysmans L, Peeters R, Goosens V, Ghysels S, Byloos K, Putzeys G, D'Hondt A, De Bleecker J L, Dupont P, Maes F, Claeys K G, "Prospective natural history study in 24 adult patients with LGMDR over 2 years of follow-up: quantitative MRI and clinical outcome measures", Neurology, vol. 99(6), pp. e638-e649, 2022.		1
[DeWinter2022] De Winter, J., El Makrini, I., Van de Perre, G., Nowé, A., Verstraten, T., & Vanderborght, B. (2021). Autonomous assembly planning of demonstrated skills with reinforcement learning in simulation. Autonomous Robots,	https://link.springer.com/article/10.1007/s10514-021-10020-x#Ack1	3
[DeWitte 2022] De Witte, D. ; Qing, J. ; Couckuyt, I. ; Dhaene, T. ; Vande Ginste, D. ; Spina, D. , "A robust Bayesian optimization framework for microwave circuit design under uncertainty", Electronics. 2022. 11 (14), 2022	10.3390/electronics11142267	1
[Dewolf 2022] N. Dewolf, B. De Baets, W. Waegeman, "Valid prediction intervals for regression problems", Artif Intell Rev, 2022.		1
[Dhont2022a] M. Dhont, E. Tsiporkova, N. González-Deleito, B. Cornelis, Making Sense of ANPR Data via Intelligent Spatio-temporal Disaggregation of Traffic Flows. IEEE International Conference on Intelligent Transportation Systems (ITSC), Macau, China, 2022.		1

[Dhont2022b] M. Dhont, E. Tsiporkova, N. González-Deleito, Dynamic Imputation Methodology for Multi-source Streaming Mobility Data. In: Bie, Y., Qu, B.X., Howlett, R.J., Jain, L.C. (eds) Smart Transportation Systems 2022. KES-STS 2022. Smart Innovation, Systems and Technologies, vol 304. Springer, Singapore.		1
[Dhont2022c] M. Dhont, E. Tsiporkova, N. González-Deleito, Incremental Multi-view Clustering for Geo-referenced Time Series. PhD Track, 9th IEEE International Conference on Data Science and Advanced Analytics (DSAA), Shenzhen, China, 2022.		1
[Dhont2022d] M. Dhont, E. Tsiporkova, N. González-Deleito, Mining of Spatiotemporal Trajectory Profiles Derived from Mobility Data. 17th International Workshop on Spatial and Spatiotemporal Data Mining (SSTDM-22), IEEE International Conference on Data Mining (ICDM).		1
[Dimitrievski 2022] Dimitrievski, M. ; Van Hamme, D. ; Philips, W. , "Perception system based on cooperative fusion of lidar and cameras", 2022, IEEE SENSORS 2022, Proceedings. 2022.		
[Domingos 2022] Domingos, E. F. ; Terrucha, I. ; Suchon, R. ; Grujic, J. ; Burguillo, J. C. ; Santos, F. C. ; Lenaerts, T. , "Delegation to artificial agents fosters prosocial behaviors in the collective risk dilemma", 2022, Sci Rep. 2022. 12 (1)	https://doi.org/10.1038/s41598-022-11518-9	
[Duygu 2022] D. De Witte, J. Qing, I. Couckuyt, T. Dhaene, D. Vande Ginste, and D. Spina, "A Robust Bayesian Optimization Framework for Microwave Circuit Design under Uncertainty." Electronics 11 (14): 1–14, 2022.		1
[Elbarbari2022] Elbarbari M, Delgrange F, Vervlimmeren I, Efthymiadis, K, Vanderborght, B, Nowe, A: A Framework for Flexibly Guiding Learning Agents. In: Neural Computing & Applications, Vol. 2022, 1, 07.06.2022, p. 1-17.	https://link.springer.com/article/10.1007/s00521-022-07396-x	3
[ElMakrini2022] El Makrini, I., Mathijssen, G., Verhaegen, S., Verstraten, T., & Vanderborght, B. (2022). A Virtual Element-Based Postural Optimization Method for Improved Ergonomics During Human-Robot Collaboration. IEEE Transactions on Automation Science and Engineering.		3

[Emmaneel 2022] Emmaneel A, Quintelier K, Sichien D, Rybakowska P, Marañón C, Alarcón-Riquelme ME, Van Isterdael G, Van Gassen S, Saeys Y.: PeacoQC: Peak-based selection of high quality cytometry data. Cytometry A. 2022 Apr;101(4):325-		1
[Evert 2022a] Evert E, De Lathauwer L, "Guarantees for existence of a best canonical polyadic approximation of a noisy low-rank tensor", Siam Journal On Matrix Analysis And Applications, vol. 43/1, pp. 328-369, 2022.		1
[Evert 2022b] Evert E, Vandecappelle M, De Lathauwer L, "A recursive eigenspace computation for the canonical polyadic decomposition", Siam Journal On Matrix Analysis And Applications, vol. 43/1, pp. 274-300, 2022.		1
[Evert 2022c] Evert E, Vandecappelle M, De Lathauwer L, "Canonical Polyadic Decomposition via the generalized Schur decomposition", IEEE Signal Processing Letters, vol. 29, pp. 937-941, 2022.		1
[Eyckerman2022] R. Eyckerman, P. Reiter, S. Latré, J. Marquez-Barja and P. Hellinckx, "Application Placement in Fog Environments using Multi-Objective Reinforcement Learning with Maximum Reward Formulation," NOMS 2022-2022 IEEE/IFIP Network Operations and Management Symposium, 2022.	https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=97897	2
[Fanuel 2022] Fanuel M, Schreurs J, Suykens J, "Nystrom landmark sampling and regularized Christoffel functions", Machine Learning, vol. 111, pp. 2213-2254, 2022.		1
[Ferraro2022] Ferraro, S.; Van de Maele, T.; Mazzaglia, P.; Verbelen, T.; Dhoedt, B. Computational Optimization of Image-Based Reinforcement Learning for Robotics. *Sensors* **2022**, *22* , 7382	https://doi.org/10.3390/s22197382	2
[Foss 2022] Foss, K. P. ; Couckuyt, I. ; Baruta, A. ; Mossoux, C. , "Automated software defect detection and identification in vehicular embedded systems", 2022, IEEE Trans. Intell. Transp. Syst. 2022. 23 (7) p.6963-6973	https://doi.org/10.1109/tits.2021.3065940	
"Bayesian Active Learning for Radiation Pattern Sampling Over Cylindrical Surfaces", IEEE Transactions on Electromagnetic Compatibility", Available online (early access), 2022		1

[Garbuglia 2022b] Garbuglia, F. ; Raes, W. ; De Bruycker, J. ; Stevens, N. ; Deschrijver, D. ; Dhaene, T. , "Bayesian active learning for received signal strength-based visible light positioning", 2022, IEEE Photonics J. 2022. 14 (6)	https://doi.org/10.1109/JPHOT.2022.3219889	1
[Garbuglia 2022c] Garbuglia, F. ; Spina, D. ; Deschrijver, D. ; Couckuyt, I. ; Dhaene, T. , "S-parameter modeling and optimization using deep Gaussian processes", MIKON2022, the24th International Microwave and Radar Conference, Gdansk,		1
[Gevaert 2022] Arne Gevaert, Yvan Saeys: PDD-SHAP: Fast Approximations for Shapley Values using Functional Decomposition. ECML-PKDD 2022		1
[Gharahighehi 2022] Gharahighehi A, Nakano F K, Vens C, "An Adaptive Hybrid Active Learning Strategy with Free Ratings in Collaborative Filtering", In Proceedings of the Intelligent Systems Conference 2022 (IntelliSys 2022), vol. 542, pp. 531-545,		1
[Gharahighehi 2022b] Gharahighehi A, Pliakos K, Vens C, "Addressing the Cold-Start Problem in Collaborative Filtering through Positive-Unlabeled Learning and Multi-Target Prediction", IEEE Access, Vol. 10, 117189-117198, 2022.		1
[Govindarajan 2022] Govindarajan N, Epperly E, De Lathauwer L, "(Lr, Lr,1)-Decompositions, sparse component analysis, and the blind separation of sums of exponentials", Siam Journal On Matrix Analysis And Applications, vol. 43/2, pp. 912-938, 2022.		1
[Govindarajan 2022a] Govindarajan N, Vervliet N, De Lathauwer L, "Regression and classification with spline-based separable expansions", Frontiers in Big Data, vol. 5, pp. 1-19, 2022.		1
[Grujicic 2022] Grujicic D, Deruyttere T, Moens M F, Blaschko M, "Predicting physical world destinations for commands given to self-driving cars", In Proceedings of the 36th AAAI Conference on Artificial Intelligence, 2022.	https://www.aaai.org/AAAI22Papers/AAAI-8858.GrujicicD.pdf	4
[Guns2022] Tias Guns, Milan Pesa, Maxime Mulamba, Ignace Bleukx, Emilio Gamba and Senne Berden: Sudoku Assistant - An AI-powered app to help solve pen-and-paper Sudokus. Belgian-Dutch AI conference (BNAIC 2022)		4

[Han2022] Han, The Anh; Lenaerts, Tom; Santos, Francisco C.; Pereira, Luís Moniz. Voluntary safety commitments provide an escape from over-regulation in AI development. In: Technology in Society, Vol. 68, 101843, 02.2022.		3
[Haxhibeqiri 2022] Haxhibeqiri, J. ; Avila-Campos, P. ; Moerman, I. ; Hoebeke, J. , "Safety-related applications over wireless time-sensitive networks", 2022, 2022 IEEE 27th International Conference on Emerging Technologies and Factory Automation (ETFA). 2022. IEEE.	https://doi.org/10.1109/ETFA52439.2022.9921559	
[Hayes2022] Hayes, Conor F.; Radulescu, Roxana; Bargiacchi, Eugenio; Källström, Johan; Macfarlane, Matthew; Reymond, Mathieu; Verstraeten, Timothy; Zintgraf, Luisa; Dazeley, Richard; Heintz, Fredrik; Howley, Enda; Irissappane, Athirai A.; Mannion, Patrick; Nowe, Ann; De Oliveira Ramos, Gabriel; Restelli, Marcello; Vamplew, Peter; Roijers, Diederik M.: A Practical Guide to Multi-Objective Reinforcement Learning and Planning. In: Autonomous Agents and Multi-Agent	https://link.springer.com/article/10.1007/s10458-022-09552-y	3
[Hayes2022b] Hayes, C. F., Verstraeten, T., Roijers, D. M., Howley, E., & Mannion, P. (2022). Expected scalarised returns dominance: a new solution concept for multi-objective decision making. Neural Computing and Applications, 1-21.	https://link.springer.com/article/10.1007/s00521-022-07334-x#Ack1	3
[Hayes2022c] Conor F Hayes, Diederik M Roijers, Enda Howley, Patrick Mannion. Multi-Objective Distributional Value Iteration. ALA 2022.	https://ala2022.github.io/papers/ALA2022_paper_32.pdf	3
[Hayes2022d] Hayes, C. F., Roijers, D. M., Howley, E., & Mannion, P. (2022, May). Decision-Theoretic Planning for the Expected Scalarised Returns. AAMAS 2022.	https://www.ifaamas.org/Proceedings/aamas2022/pdfs/p1621.pdf	3
[Hayes2022e] Hayes, C. F., Verstraeten, T., Roijers, D. M., Howley, E., & Mannion, P. (2022). Multi-Objective Coordination Graphs for the Expected Scalarised Returns with Generative Flow Models. EWRL 2022.	https://arxiv.org/abs/2207.00368	3
[Heidari 2022] Heidari, A. ; Qing, J. ; Rojas Gonzalez, S. ; Branke, J. ; Dhaene, T. ; Couckuyt, I. , "Finding Knees in Bayesian Multi-objective Optimization", Lecture Notes in Computer Science. 2022. p.104-117, 2022	10.1007/978-3-031-14714-2_8	1
[Heidari 2022] Heidari, A. ; Qing, J. ; Rojas Gonzalez, S. ; Branke, J. ; Dhaene, T. ; Couckuyt, I. , "Finding Knees in Bayesian Multi-objective Optimization", Lecture Notes in Computer Science. 2022. p.104-117, 2022	10.1007/978-3-031-14714-2_8	1

[Heiter 2022] E. Heiter, B. Kang, T. De Bie and J. Lijffijt, "Evaluating Representation Learning and Graph Layout Methods for Visualization," in IEEE Computer Graphics and Applications, vol. 42, no. 3, pp. 19-28, 2022	10.1109/mcg.2022.3160104	1
[Hemelings 2022] Hemelings R, Elen B, Barbosa-Breda J, Bellon E, Blaschko M B, De Boever P, Stalmans I, "Pointwise visual field estimation from optical coherence tomography in glaucoma using deep learning", Translational Vision Science & Technology, 2022.		1
[Hendrickx 2022a] Hendrickx L, Van Ranst W, Goedemé T, "Hot-Started NAS for Task-Specific Embedded Applications", In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2022.	doi: 10.1109/CVPRW56347.2022.00214.	2
[Hendrickx 2022b] Hendrickx K, Meert W, Cornelis B, Davis J, "Know Your Limits: Machine Learning with Rejection for Vehicle Engineering", In International Conference on Advanced Data Mining and Applications, pp. 273-288, 2022.		1
[Hendrikx S 2022] Hendrikx S, De Lathauwer L, "Block row Kronecker-structured linear systems with a low-rank tensor solution", Frontiers in Applied Mathematics and Statistics, vol. 8, 2022.		1
[Heremans 2022a] Heremans E, Phan H, Ansari A, Borzee P, Buyse B, Testelmans D, De Vos M, "Feature matching as improved transfer learning technique for wearable EEG", Biomedical Signal Processing And Control, vol. 78, 2022.		1
[Heremans 2022b] Heremans ER M, Phan H, Borzée P, Buyse B, Testelmans D, De Vos M, "From unsupervised to semi-supervised adversarial domain adaptation in electroencephalography-based sleep staging.", J Neural Eng, vol. 19/3, 2022.		1
[Hermans 2022] Hermans T, Thewissen L, Gewillig M, Cools B, Jansen K, Pillay K, De Vos M, Van Huffel S, Naulaers G, Dereymaeker A, "Functional brain maturation and sleep organisation in neonates with congenital heart disease.", European Journal Of Paediatric Neurology, vol. 36, pp. 115-122, 2022.		1

[Hofman2022] J. Hofman, T. H. Do, X, Qin, E. Rodrigo Bonet, Martha E. Nikolaou, W. Philips, N. Deligiannis, V. Panzica La Manna, "Spatiotemporal Air Quality Inference of Low-Cost Sensor Data: Evidence from Multiple Sensor Testbeds", Environmental Modelling & Software, 2022. https://www.sciencedirect.com/science/article/pii/S1364815222000123		2
[Hou2022a] Hou, Y., Liu, Z., Kang, B., Wang, Y., & Botteldooren, D. (2022). CT-SAT: Contextual Transformer for Sequential Audio Tagging. Annual Conference of the International Speech Communication Association (INTERSPEECH), 2022	https://www.isca-speech.org/archive/pdfs/interspeech_2022/h	4
[Hou2022b] Hou, Y., & Botteldooren, D. (2022). Event-related data conditioning for acoustic event classification. Interspeech 2022	https://www.isca-speech.org/archive/pdfs/interspeech_2022/h	4
[Hou2022c] Hou, Y., Kang, B., & Botteldooren, D. (2022). Audio-visual scene classification via contrastive event-object alignment and semantic-based fusion. IEEE 24th workshop on Multimedia Signal Processing (MMSP), 2022.	https://arxiv.org/abs/2208.02086	4
[Hou2022d] Hou, Y., Kang, B., Van Hauwermeiren, W., & Botteldooren, D. (2022). Relation-guided acoustic scene classification aided with event embeddings In 2022 International Joint Conference on Neural Networks (IJCNN). IEEE.	https://arxiv.org/pdf/2205.00499	4
[Hovine 2022] Hovine C, Bertrand A, "MAXVAR-based distributed correlation estimation in a wireless sensor network", Accepted for publication in IEEE		1
[Huang2022] Huang S., Zhang H. Pizurica A., "Hybrid-hypergraph regularized multiview subspace clustering for hyperspectral images." IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol. 60, 2022,	doi:10.1109/tgrs.2021.3074184.	1
[Hulens 2022] Hulens D, Van Ranst W, Cao Y, Goedemé T, Van Ranst W, "Autonomous Visual Navigation for a Flower Pollination Drone", Machines, vol. 10, no. 364, 2022. doi: 10.3390/machines10050364.	doi: 10.3390/machines10050364	2
[Hutsebaut-Buysse2022a] Hutsebaut-Buysse, Matthias, Kevin Mets, and Steven Latré. "Hierarchical Reinforcement Learning : A Survey and Open Research Challenges". Machine Learning and Knowledge Extraction 4 (1): 172–221, 2022.	https://doi.org/10.3390/MAKE4010009	4

[Hutsebaut-Buysse2022b] Matthias Hutsebaut-Buysse, Kevin Mets, Tom De Schepper, Steven Latre. "Structured Exploration Through Instruction Enhancement for Object Navigation". In 34th Benelux Conference on Aritficial Intelligence and the 31 Belgiun Dutch Conference on Machine Learning (BNAIC/BENELEARN 2021), 7-9 November, 2022,	https://bnaic2022.uantwerpen.be/wp-content/uploads/BNAIC	4
[Ibrahim 2022] Ibrahim E M, Mei L, Verhelst M, "Taxonomy and Benchmarking of Precision-Scalable MAC Arrays Under Enhanced DNN Dataflow Representation", IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 69, no. 5, pp. 2013-2024, 2022. doi: 10.1109/TCSI.2022.3141519	doi: 10.1109/TCSI.2022.3141519	2
[Iliadis2022] Iliadis, Dimitrios, Bernard De Baets, and Willem Waegeman. "Multi-target prediction for dummies using two-branch neural networks." Machine Learning 111.2 (2022): 651-684.		1
[Irfan2022a] Irfan, B. ; Ortiz, M. G. ; Lyubova, N. ; Belpaeme, T. , "Multi-modal open world user identification", 2022, ACM trans. hum. robot interact. 2022. 11 (1)	https://doi.org/10.1145/3477963	4
[Irfan2022b] Irfan, B., Céspedes, N., Casas, J., Senft, E., Gutiérrez, L. F., Rincon-Roncancio, M., ... & Múnera, M. (2022). Personalised socially assistive robot for cardiac rehabilitation: Critical reflections on long-term interactions in the real world. User Modeling and User-Adapted Interaction, 1-48.	https://link.springer.com/article/10.1007/s11257-022-09323-0	4
[Isolani 2022] Isolani, P. H. ; Haxhibeqiri, J. ; Moerman, I. ; Hoebeke, J. ; Granville, L. Z. ; Latre, S. ; Marquez-Barja, J. M. , "SD-RAN interactive management using in-band network telemetry in IEEE 802.11 networks", 2022, J. Netw. Syst. Manag. 2023. 31 (1)	https://doi.org/10.1007/s10922-022-09692-2	2
[Iuso 2022] D. Iuso, Chatterjee, S., Heylen, R., Cornelissen, S., De Beenhouwer, J., and Sijbers, J., "Analysis of the effectiveness of deeply supervised neural networks for defect segmentation in additive manufacturing", in SPIE Optical Engineering: Developments in X-Ray Tomography XIV , In Press	https://www.spiedigitallibrary.org/conference-proceedings-of-spie/12242/122421K/Evaluation-of-deeply-supervised-neural-networks-for-3D-pore-segmentation/10.1117/12.2633318.short?SSO=1	1

[Jain 2022] Jain V, Giraldo S, De Roose J, Boons B, Mei L, Verhelst M, "TinyVers: A 0.8-17 TOPS/W, 1.7 µW-20 mW, Tiny Versatile System-on-chip with State-Retentive eMRAM for Machine Learning Inference at the Extreme Edge". In Proceedings of the 2022 IEEE Symposium on VLSI Technology and Circuits (VLSI Technology and Circuits), 2022. doi: 10.1109/VLSITechnologyandCir46769.2022.9830409		2
[Jamil 2022] Jamil, F., Verstraeten, T., Nowé, A., Peeters, C., & Helsen, J. "A deep boosted transfer learning method for wind turbine gearbox fault detection.", Renewable Energy, Vol. 197, pp. 331-341, 2022		3
[JanssensL2022] Janssens, L. ; Boeckaerts, D. ; Hudson, S. ; Morozova, D. ; Cannaert, A. ; Wood, D. M. ; Wolfe, C. ; De Baets, B. ; Stock, M. ; Dargan, P. I. ; Stove, C. , "Machine learning to assist in large-scale, activity-based synthetic cannabinoid receptor agonist screening of serum samples", Clin. Chem. 2022. 68 (7) p.906-916,	10.1093/clinchem/hvac027	1
[JanssensR2022a] Janssens, R. ; Wolfert, P. ; Demeester, T. ; Belpaeme, T. , "Cool glasses, where did you get them?' : generating visually grounded conversation starters for human-robot dialogue", HRI '22 : proceedings of the 2022 ACM/IEEE International Conference on Human-Robot Interaction. 2022. IEEE Press. p.821-825,	https://biblio.ugent.be/publication/8747513	4
[JanssensR2022b] Janssens, R., Demeester, T., & Belpaeme, T. "Visual conversation starters for human-robot interaction". Presented at the BNAIC/BeNeLearn 2022, Mechelen, Belgium	http://hdl.handle.net/1854/LU-01GMMZV85YDY5RRJ1HAYGEMX6F	4
[Jeunen2022a] Jeunen, Olivier, Jan Van Balen, and Bart Goethals. "Embarrassingly Shallow Auto-encoders for Dynamic Collaborative Filtering". User Modeling and User-adapted Interaction, 2022	https://doi.org/10.1007/S11257-021-09314-7	4
[Jeunen2022b] Pessimistic Decision-Making for Recommender Systems. ACM ToRS'22 (Special Issue on Highlights of RecSys '21, To Appear)	https://dl.acm.org/doi/10.1145/3568029	4
[Jiang2022a] Y. Jiang, K. Zaporojets, J. Deleu, T. Demeester and C. Develder, "CookDial: A dataset for task-oriented dialogs grounded in procedural documents", Appl. Intelligence, Jun. 2022.	10.1007/s10489-022-03692-0	4

[Jiang2022b] Y. Jiang, A. Hadifar, J. Deleu, T. Demeester and C. Develder, "UGent-T2K at the 2nd DialDoc shared task: A retrieval-focused dialog system grounded in multiple documents", in Proc. DialDoc Workshop at ACL 2022, Dublin, Ireland, May 26, 2022, pp. 1-8.	10.18653/v1/2022.dialdoc-1.12	4
[Jooken 2022] Jooken J, Leyman P, De Causmaecker P, "A new class of hard problem instances for the 0–1 knapsack problem", European Journal of Operational Research, vol. 301 (3), pp. 841-854, 2022.		1
[Jordens 2022a] Jordens J, Vandevelde S, Witters M, Van Doninck B, Vennekens J, "Adhesive selection via an interactive user-friendly system based on Symbolic AI", In CIRP Design Conference 2022.	https://www.sciencedirect.com/science/article/pii/S22128271	1
[Jordens 2022b] JORDENS, J., Doninck, B., SATRIO LOKA, N., MORALES HERNANDEZ, A., Couckuyt, I., VAN NIEUWENHUYSE, I., & WITTERS, M. (2022). Optimization of plasma-assisted surface treatment for adhesive bonding via Artificial Intelligence. 2nd International Conference on Industrial Applications of Adhesives 2022. https://link.springer.com/book/9783031111495 (not publicly available) Proceedings in Engineering Mechanics - Research, Technology and Education 2022	https://documentserver.uhasselt.be/handle/1942/37139	1
[Kuylen2022] Kuylen, E. J., Torneri, A., Willem, L., Libin, P. J. K., Abrams, S., Coletti, P., Franco, N., Verelst, F., Beutels, P., Liesenborgs, J., & Hens, N. (2022). Different forms of superspreading lead to different outcomes: Heterogeneity in infectiousness and contact behavior relevant for the case of SARS-CoV-2. PLoS Computational Biology, 18(8), [e1009980]	https://doi.org/10.1371/journal.pcbi.1009980	3
[Labat 2022a] Labat, S. ; Ackaert, N. ; Demeester, T. ; Hoste, V. , "Variation in the expression and annotation of emotions : a Wizard of Oz pilot study", Proceedings of the 1st Workshop on Perspectivist Approaches to NLP @LREC2022. 2022. European Language Resources Association (ELRA). p.66-72, 2022	https://aclanthology.org/2022.nlperspectives-1.9.pdf	4

[Labat2021] Labat, Sofie, Haidee Kotze and Benedikt Szmrecsanyi. 2021. "Processing and prescriptivism as constraints on variation in relativization." In M. Korhonen, H. Kotze, & J. Tyrkkö (Eds.), Exploring Language and Society with Big Data: Parliamentary discourse across time and space. Amsterdam, Netherlands: John Benjamins Publishing Company. (2022)		4
[Labat2022b] Labat, Sofie, Hadifar, Amir, Demeester, Thomas and Hoste, Veronique (2022). An Emotional Journey: Detecting Emotion Trajectories in Dutch Customer Service Dialogues. Proceedings of the Eight Workshop on Noisy User-Generated Text (W-NUT 2022), pp. 106–112, Gyeongju, Republic of Korea. Association for Computational Linguistics.	https://aclanthology.org/2022.wnut-1.12.pdf	4
[Labat2022c] Labat, Sofie, Demeester, Thomas and Hoste, Veronique (2022). EmoTwiCS: a corpus for modelling emotion trajectories in Dutch customer service dialogues on Twitter. Accepted for publication in Language Resources and Evaluation.		4
[Lambrechts 2022] Lambrechts A, Wirix-Speetjens R, Maes F, Van Huffel S, "Artificial Intelligence Based Patient-Specific Preoperative Planning Algorithm for Total Knee Arthroplasty", Frontiers in Robotics and AI, vol. 9, pp. , 2022.		1
[Laubeuf2022] Laubeuf, Nathan; Doevenspeck, Jonas; Papistas, Ioannis A.; Caselli, Michele ; Cosemans, Stefan ; Vrancx, Peter; Bhattacharjee, Debjyoti; Mallik, Arindam; Debacker, Peter; Verkest Diederik; Catthoor, Francky; Lauwereins, Rudy, "Dynamic Quantization Range Control for Analog-in-Memory Neural Networks Acceleration", in ACM Transactions on Design Automation of Electronic Systems, 2022		2
[Laubeuf2022] Laubeuf, Nathan; Doevenspeck, Jonas; Papistas, Ioannis A.; Caselli, Michele ; Cosemans, Stefan ; Vrancx, Peter; Bhattacharjee, Debjyoti; Mallik, Arindam; Debacker, Peter; Verkest Diederik; Catthoor, Francky; Lauwereins, Rudy, "Dynamic Quantization Range Control for Analog-in-Memory Neural Networks Acceleration", in ACM Transactions on Design Automation of Electronic Systems, 2022		2
[Lauwers 2022] Lauwers O, Vermeersch C, De Moor B, "Cepstral identification of autoregressive systems", Automatica, vol. 139, 2022.		1

[Lee 2022] Lee, W. ; Jovanov, L. ; Philips, W. , "Cross-modality attention and multimodal fusion transformer for pedestrian detection", 2022, ECCV 2022, the European Conference on Computer Vision Workshops, Proceedings. pp. 16 2022.		2
[Lenders2022] Daphne Lenders and Toon Calders. "A New Benchmarking Dataset for Fair ML". In 34th Benelux Conference on Aritficial Intelligence and the 31 Belgiun Dutch Conference on Machine Learning (BNAIC/BENELEARN 2021), 7-9	https://bnaic2022.uantwerpen.be/wp-content/uploads/BNAIC	1
[Leroux 2022] Leroux, S. ; Li, B. ; Simoens, P. , "Automated training of location-specific edge models for traffic counting", Comput. Electr. Eng. 2022. 99, 2022		2
[Leroux 2022b] Leroux, S. ; Li, B. ; Simoens, P. , "Multi-branch neural networks for video anomaly detection in adverse lighting and weather conditions", 2022 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV). 2022. IEEE. p.3027-3035, 2022		2
[Leroux 2022c] Leroux, S. ; Verbelen, T. ; Simoens, P. ; Dhoedt, B. , "Iterative neural networks for adaptive inference on resource-constrained devices", 2022, Neural Comput. Appl. 2022. p.1-16	https://doi.org/10.1007/s00521-022-06910-5	2
[Li 2022a] Li M, Moens M-F, "Dynamic Key-value Memory Enhanced Multi-step Graph Reasoning for Knowledge-based Visual Question Answering", In Proceedings of Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI-22), 2022	https://www.aaai.org/AAAI22Papers/AAAI-8037.LiM.pdf	4
[Li 2022b] Li W, Huang R, Li J, Liao Y, Chen Zh, He G, Yan R, Gryllias K, "A perspective survey on deep transfer learning for fault diagnosis in industrial scenarios: Theories, applications and challenges", Mechanical Systems and Signal Processing, vol. 167, 108487, 2022.		1
[Lijffijt 2022] Lijffijt, J. ; Gkorou, D. ; Van Hertum, P. ; Ypma, A. ; Pechenizkiy, M. ; Vanschoren, J. , "Introduction to the Special Section on AI in Manufacturing", 2022, SIGKDD Explor. Newsl. 2022. Association for Computing Machinery (ACM). 24 (2) p.81-85	https://doi.org/10.1145/3575637.3575650	1
[Liu 2022] Liu C, Pluymers B, Desmet W, Gryllias K, "A digital twin-assisted deep learning model for rolling, element bearing prognostics", In Proceedings of the ISMA-USD Conference, 2022.		1

[Liu 2022b] Liu C, Meerten Y, Declercq K, Gryllias K, "Vibration-based gear continuous generating grinding fault classification and interpretation with deep convolutional neural network", Journal of Manufacturing Processes, vol. 79, pp. 688-		1
[LiuB 2022] Liu, B., Pliakos, K., Vens, C., Tsoumakas, G. , " Drug-Target Interaction Prediction via an Ensemble of Weighted Nearest Neighbors with Interaction Recovery.", Applied Intelligence, vol.52, pp. 3705–3727, 2022		1
[Loka 2022] N. R. B. S. Loka, I. Couckuyt, F. Garbuglia, D. Spina, I. Van Nieuwenhuyse, and T. Dhaene, "Bi-Objective Bayesian Optimization of Engineering Problems with Cheap and Expensive Cost Functions." Engineering with Computers,	https://doi.org/10.1007/s00366-021-01573-7	1
[Loka 2022b] Loka, N. R. B. S. ; Karthik Gurumurthy, S. ; Amevor, B. ; Monti, A. ; Dhaene, T. ; Couckuyt, I. , "Surrogate Modelling of Dynamic Phasor Simulations of Electrical Drives", 2022, IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society. 2022. IEEE.	https://doi.org/10.1109/iecon49645.2022.9968552	1
[Lood 2022] Lood, C. ; Boeckaerts, D. ; Stock, M. ; De Baets, B. ; Lavigne, R. ; van Noort, V. ; Briers, Y. , "Digital phagograms : predicting phage infectivity through a multilayer machine learning approach", Curr. Opin. Virol. 2022. 52 p.174-181, 2022		1
[Loor Romero 2022] Loor Romero, M. E. ; Tapia-Rosero, A. ; De Tré, G. , "An open-source software library for explainable support vector machine classification", 2022 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE). 2022. IEEE., 2022		1
[Lotfi2022] Ehsan Lotfi, Maxime De Bruyn, Jeska Buhmann, Walter Daelemans. "What Was Your Name Again? Interrogating Generative Conversational Models For Factual Consistency Evaluation", EMNLP 2022 2nd Workshop on Generation, Evaluation, and Metrics (GEM), 2022		4
[Lu2022] Tan Lu and Ann Dooms, Computational Image Processing in the Cultural Heritage Sector: Document Image Understanding, IEEE BITS the Information Theory Magazine, Aug. 2022.	https://ieeexplore.ieee.org/document/9860032/	4
[Mandi2022] Jayanta Mandi, Víctor Bucarey, Maxime Mulamba Ke Tchomba, Tias Guns: Decision-Focused Learning: Through the Lens of Learning to Rank. ICML 2022:	https://proceedings.mlr.press/v162/mandi22a/mandi22a.pdf	4

[Mara 2022a] Mara, Alexandru, Jefrey Lijffijt, Tijl De Bie. "EvalNE: A framework for network embedding evaluation." SoftwareX 17: 100997 (2022)		1
[Mara 2022b] Mara, Alexandru, Jefrey Lijffijt, Tijl De Bie. "An Empirical Evaluation of Network Representation Learning Methods." Big Data, online ahead of print, 2022.	10.1089/big.2021.0107	1
[Mara 2022c] Mara, A. C. ; Lijffijt, J. ; Günnemann, S. ; De Bie, T. , "A Systematic Evaluation of Node Embedding Robustness", 2022, Proceedings of the First Learning on Graphs Conference. 2022. Proceedings of Machine Learning Research. 198		1
[Markov2022] Markov, Ilia, Ine Gevers, and Walter Daelemans. "An Ensemble Approach for Dutch Cross-Domain Hate Speech Detection." In International Conference on Applications of Natural Language to Information Systems, pp. 3-15. Springer, Cham, 2022	https://doi.org/10.1007/978-3-031-08473-7_1	4
[Markovic 2022] Markovic D, Vandevelde S, Vennekens J, Denecker M, " On the semantics of "null" in DMN: Undefined is not unknown", in Proceedings of the RuleML+RR 2022 conference, 2022.		1
[Marx 2022] Marx D, Gryllias K, "Domain knowledge informed unsupervised fault detection for rolling element bearings", In Proceedings of the 7th European Conference of the Prognostics and Health Management Society, 2022.		1
[Marynissen2022a] Marynissen, Simon; Heyninck, Jesse; Bogaerts, Bart; Denecker, Marc. On Nested Justification Systems. In: Theory and Practice of Logic Programming, 2022, p. 641-657.	https://www.cambridge.org/core/journals/theory-and-practice-of-logic-programming/article/on-nested-justification-	3
[Marynissen2022b] S. Marynissen and B. Bogaerts. Tree-Like Justification Systems are Consistent. Proceedings 38th International Conference on Logic Programming (ICLP), p. 1-11, 2022.	https://arxiv.org/abs/2208.03089	3
[Mashayekhi 2022] Mashayekhi, Y. ; Li, N. ; Kang, B. ; Lijffijt, J. ; De Bie, T. , "A challenge-based survey of e-recruitment recommendation systems", 2022, arxiv.	https://arxiv.org/abs/2209.05112	1

[Mazzaglia 2022a] Mazzaglia, P. ; Catal, O. ; Verbelen, T. ; Dhoedt, B. , "Curiosity-driven exploration via latent Bayesian surprise", Proc. AAAI Conf. Artif. Intell. 2022. Association for the Advancement of Artificial Intelligence (AAAI). 36 (7) p.7752-7760, 2022		2
[Mazzaglia 2022b] Mazzaglia, P. ; Verbelen, T. ; Catal, O. ; Dhoedt, B. , "The free energy principle for perception and action : a deep learning perspective", Entropy. 2022. 24 (2), 2022	10.3390/e24020301	2
[Meeus 2022] Meeus Q, Moens M-F, Van hamme H, "Multitask Learning for Low Resource Spoken Language Understanding", In Proceedings of Interspeech 2022, 2022.	https://www.isca-speech.org/archive/pdfs/interspeech_2022/meeus22_interspeech.pdf	4
[Meiresone 2022] Meiresone, P. ; Van Hamme, D. ; Philips, W. ; Verbelen, T. , "Ego-motion estimation with a low power millimeter wave radar on a UAV", presented at the Radar 2022, Edinburgh, 2022.		2
[Mikkelsen 2022] Mikkelsen K, Phan H, Rank ML, Hemmsen MC, De Vos M, Kidmose P, "Sleep monitoring using ear-centered setups : Investigating the influence from electrode configurations", IEEE Transactions On Biomedical Engineering, vol.		1
[Miranda 2022] Miranda, G. ; Municio, E. ; Haxhibeqiri, J. ; Macedo, D. F. ; Hoebeke, J. ; Moerman, I. ; Marquez-Barja, J. M. , "Evaluating time-sensitive networking features on open testbeds", IEEE INFOCOM 2022 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS). 2022. IEEE., 2022		2
[Miranda 2022] Miranda, G. ; Municio, E. ; Haxhibeqiri, J. ; Macedo, D. F. ; Hoebeke, J. ; Moerman, I. ; Marquez-Barja, J. M. , "Time-sensitive networking experimentation on open testbeds", IEEE INFOCOM 2022 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS). 2022. IEEE., 2022		2

[Montero2022] Montero, Eladio ; Grujic, Jelena; Fernandez Domingos, Elias; Lenaerts, Tom. Inferring strategies from observations in long iterated Prisoner's dilemma experiments. In: Scientific Reports, Vol. 12, No. 1, 7589, 09.05.2022.	https://www.nature.com/articles/s41598-022-11654-2#Ack1	3
[Montero2022b] Montero-Porras, Eladio ; Lenaerts, Tom ; Gallotti, Riccardo ; Grujic, Jelena. / Fast deliberation is related to unconditional behaviour in iterated Prisoners' Dilemma experiments. In: Scientific Reports. 2022 ; Vol. 12, No. 1.	https://www.nature.com/articles/s41598-022-24849-4	3
[Morales2022a] Morales Hernandez Alejandro, Napoles Ruiz Gonzalo, Jastrzebska Agnieszka, Salgueiro Yamisleydi , Vanhoof Koen, "Measuring wind turbine health using fuzzy-concept-based drifting models", Renewable Energy, 190 , p. 730 -740,		1
[Morales2022b] Morales Hernandez A, Van Nieuwenhuyse I, Napoles Ruiz G.,Multi-objective hyperparameter optimization with performance uncertainty, Proceedings of International Conference on Optimization and Learning 2022	https://documentserver.uhasselt.be/handle/1942/38775	1
[Morales2022c] Morales-Hernández, A. Nápoles G., Jastrzebska A., Salgueiro Y., Vanhoof K. Online learning of windmill time series using Long Short-term Cognitive Networks. Expert Systems with Applications. 2022 Jun 6,	https://doi.org/10.1016/j.eswa.2022.117721	1
[Mortier 2022a] Mortier, E Hüllermeier, K Dembczyński, W Waegeman, Set-valued prediction in hierarchical classification with constrained representation complexity, International Conference on Uncertainty in Artificial Intelligence, 2022		1
[Morties 2022b]T Mortier, AD Wieme, P Vandamme, W Waegeman, Bacterial species identification using MALDI-TOF mass spectrometry and machine learning techniques: A large-scale benchmarking study, Computational and Structural Biotechnology Journal 19, 6157-6168, 2021		1
[Musluoglu 2022] Musluoglu C, Moonen M, Bertrand A, "Improved tracking for the distributed signal fusion optimization algorithm in a fully-connected wireless sensor network", in Proceedings of the EUSIPCO 2022, 2022.		1
[Nakano 2022] Nakano, F.K., Pliakos, K., Vens, C. , "Deep tree-ensembles for multi-output prediction", Pattern Recognition, Vol. 121, Art.No. 108211, 2022.	doi: 10.1016/j.patcog.2021.108211	1

[Nateghi Haredasht 2022] Nateghi Haredasht F, Viaene L, Vens C, Callewaert N, De Corte W, Pottel H, "Comparison between Cystatin C- and Creatinine-Based Estimated Glomerular Filtration Rate in the Follow-Up of Patients Recovering from a Stage-3 AKI in ICU", Journal of Clinical Medicine, Vol. 11 (24), Art.No. 7264, 2022.		1
[Nateghi2022] Nateghi F, Vens C, "Predicting Survival Outcomes in the Presence of Unlabeled Data", Machine Learning, accepted, 2022.		1
[Nejadasl2022] Nejadasl, A. M., Gheibi, O., Van De Perre, G., & Vanderborght, B. (2022, February). NeuroErgo: A Deep Neural Network Method to Improve Postural Optimization for Ergonomic Human-Robot Collaboration. In IEEE international conference on Robotics and Automation (pp. 1-7).		3
[Nguyen2022] V. Nguyen, Alves Pereira, L. F., Liang, Z., Mielke, F., Van Houtte, J., Sijbers, J., and De Beenhouwer, J., "Automatic landmark detection and mapping for 2D/3D registration with BoneNet", Frontiers Veterinary Science, 2022	https://www.frontiersin.org/articles/10.3389/fvets.2022.92344	1
[Nieves 2022] D. N. Avendano, N. Vandermoortele, C. Soete, P. Moens, A. P. Ompusunggu, D. Deschrijver, S. Van Hoecke, "A Semi-Supervised Approach with Monotonic Constraints for Improved Remaining Useful Life Estimation", Sensors, Vol. 22. No. 4, 22 pages, 2022.	https://biblio.ugent.be/publication/8744638	1
[Nitish2022] Nitish Satya Murthy; Peter Vrancx; Nathan Laubeuf; Peter Debacker; Francky Catthoor; Marian Verhelst, "Learn to Learn on Chip: Hardware-aware Meta-learning for Quantized Few-shot Learning at the Edge, 7th ACM/IEEE Symposium on Edge Computing, Dec. 2022		2
[Noels 2022] Noels, S. ; Vandermarliere, B. ; Bastiaensen, K. ; De Bie, T. , "An earth mover's distance based graph distance metric for financial statements", 2022 IEEE Symposium on Computational Intelligence for Financial Engineering and Economics (CIFEr). 2022. IEEE., 2022		1
[Ouyang 2022] Ouyang, Y. ; Zhang, H. ; Wang, Z. ; De Baets, B. , "Idempotent uninorms on a complete chain", Fuzzy Sets Syst. 2022. 448 p.107-126, 2022		1

[Ouyang 2022] Ouyang, Y. ; Zhang, H. ; Wang, Z. ; De Baets, B. , "On triangular norms representable as ordinal sums based on interior operators on a bounded meet semilattice", Fuzzy Sets Syst. 2022. 439 p.89-101, 2022		1
[Palacio2022] Palacio, J. C., Martinez Jimenez, Y., Schietgat, L., Van Doninck, B., & Nowe, A. A Q-Learning algorithm for flexible job shop scheduling in a real-world manufacturing scenario. 9th CIRP Conference on Assembly Technology and Systems. Vol. 106 Elsevier, 2022. p. 227-232 106 (Procedia CIRP).	https://www.sciencedirect.com/science/article/pii/S2212827122001846	3
[Pandey 2022a] Pandey A, De Meulemeester H, De Plaen H, De Moor B, Suykens J, "Recurrent Restricted Kernel Machines for Time-series Forecasting", in Proceedings of the European symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN 2022), 2022.		1
[Pandey 2022b] Pandey A, Fanuel M, Schreurs J, Suykens J, "Disentangled representation learning and generation with manifold optimization", Accepted for publication in Neural Computation, 2022.		1
[Park2022] Park J Y, Dedja K, Pliakos K, Kim J, Joo S, Cornillie F, Vens C, Van den Noortgate W, "Comparing the prediction performance of item response theory and machine learning methods on item responses for educational assessments", Behavior Research Methods, 2022.		1
[Peelman2022] Milan Peelman, Antoon Bronselaer, Guy De Tré. Search-based Reinforcement Learning through Bandit Linear Optimization. In Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence. Main Track. Pages 3380-3386.	10.24963/ijcai.2022/469	1
[Peng 2022a] Peng D, Liu Ch, Desmet W, Gryllias K, “Condition monitoring of wind turbines based on anomaly detection using deep support vector data description”, In Proceedings of ASME Turbo Expo 2022, Turbomachinery Technical Conference and Exposition (GT2022), 2022.		1

[Peng 2022b] Peng D, Liu Ch, Mauricio Al, Desmet W, Gryllias K, "A transfer learning-based rolling bearing fault diagnosis across machines", In Proceddings of the 14th Annual Conference of the Prognostics and Health Management Society, 2022.		1
[Peng 2022c] Peng D, Liu C, Desmet W, Gryllias K, "Semi-supervised CNN-based SVDD anomaly detection for wind turbines", in Proceedings of the ASME 2022, 4th International Offshore Wind Technical Conference (IOWTC2022), 2022		1
[Perez2022] Perez Sanjines, Fabian Ramiro; Verstraeten, Timothy; Nowe, Ann; Helsen, Jan. Deep ensemble with Neural Networks to model power-curve uncertainty. Journal of Physics: Conference Series: 17th EERA DeepWind 2022 offshore wind R&I conference 19–21 January 2022, Trondheim, Norway. 2022.		3
[Perez2022b] Perez Sanjines, Fabian Ramiro; Peeters, Cédric; Verstraeten, Timothy; Antoni, Jérôme; Nowe, Ann; Helsen, Jan. Fleet-based early fault detection of wind turbine gearboxes using physics-informed deep learning based on cyclic spectral coherence. In: Mechanical Systems and Signal Processing, Vol. 185, 15.02.2023.	https://www.sciencedirect.com/science/article/pii/S0888327022008287	3
[Perini2022] Perini L, Vercruyssen V, Davis J, "Transferring the Contamination Factor between Anomaly Detection Domains by Shape Similarity", In Proceedings of the Thirty-Sixth AAAI Conference on Artificial Intelligence, 2022.		1
[Phan 2022a] Phan H, Chen OY, Tran MC, Koch P, Mertins A, De Vos M, "XSleepNet : Multi-View Sequential Model for Automatic Sleep Staging", IEEE Transactions On Pattern Analysis And Machine Intelligence, vol. 14, pp. 5903-5915, 2022.		1
[Phan 2022b] Phan H, Mikkelsen K, Chen OY, Koch P, Mertins A, De Vos M, "SleepTransformer : Automatic sleep staging with interpretability and uncertainty		1
[Pieters 2022] Pieters, O. ; De Swaef, T. ; Stock, M. ; wyffels, F. , "Leveraging plant physiological dynamics using physical reservoir computing", Sci Rep. 2022. 12 (1), 2022	10.1038/s41598-022-16874-0	4
[Poncelet 2022] Poncelet J, Van hamme H, "Learning to jointly transcribe and subtitle for end-to-end spontaneous speech recognition", In Proceedings of SLT		4

[Popordanoska 2022a] Popordanoska T, Blaschko M B, "KULeuven at LeQua 2022: Model Calibration in Quantification Learning", In proceedings of the Conference and Labs of the Evaluation Forum (CLEF), 2022.		1
[Popordanoska 2022b] T. Popordanoska, R. Sayer, M.B. Blaschko, "A consistent and differentiable Lp canonical calibration error estimator", NeurIPS 2022, 2022.		1
[Presenti 2022a] A. Presenti, Liang, Z., Alves Pereira, L. F., Sijbers, J., and De Beenhouwer, J., "Automatic anomaly detection from X-ray images based on autoencoder", Nondestructive Testing and Evaluation, vol. 37, no. 5, 2022	https://doi.org/10.1080/10589759.2022.2074415	1
[Presenti 2022b] A. Presenti, Liang, Z., Alves Pereira, L. F., Sijbers, J., and De Beenhouwer, J., "CNN-based pose estimation from a single X-ray projection for 3D inspection of manufactured objects", in 11th Conference on Industrial Computed Tomography, 2022	https://www.ndt.net/search/docs.php3?id=26594	1
[QI 2022] Qi J, Van hamme H, "Weak-Supervised Dysarthria-Invariant Features for Spoken Language Understanding using an FHVAE and Adversarial Training", In Proceedings of SLT 2022, 2022.		4
[Qin2022] X, Qin, T. H. Do, J. Hofman, E. Rodrigo Bonet, V. Panzica La Manna, N. Deligiannis, W. Philips, Fine-Grained Urban Air Quality Mapping from Sparse Mobile Air Pollution Measurements and Dense Traffic density. Remote Sensing, 2022.	https://www.mdpi.com/2072-4292/14/11/2613	4
[Qing2022a] Qing, J. ; Knudde, N. ; Garbuglia, F. ; Spina, D. ; Couckuyt, I. ; Dhaene, T. , "Adaptive sampling with automatic stopping for feasible region identification in engineering design", 2022, Eng. Comput. 2022.	https://doi.org/10.1007/s00366-021-01341-7	1
[Qing2022b] J. Qing, T. Dhaene, and I. Couckuyt. 2022. "Spectral Representation of Robustness Measures for Optimization under Input Uncertainty.", In ICML2022, the 39th International Conference on Machine Learning, 1–26, 2022.		1
[Qing2022c] Jixiang Qing, Henry B Moss, Tom Dhaene, and Ivo Couckuyt. "{P F }2es: Parallel feasible pareto frontier entropy search for multi-objective bayesian optimization under unknown constraints.", Journal of Global Optimization 2022,	arXiv preprint arXiv:2204.05411,	1

[Qing2022d] Jixiang Qing, Ivo Couckuyt, and Tom Dhaene. A robust multi-objective bayesian optimization framework considering input uncertainty. arXiv preprint Journal of Global Optimization 2022 arXiv:2202.12848, 2022a.	arXiv:2202.12848	1
[Rabaey 2022] Rabaey, P. ; De Boom, C. ; Demeester, T. , "Neural Bayesian network understudy", presented at the NeurIPS2022, the 36th Conference on Neural Information Processing Systems, New Orleans, USA, 2022.	http://hdl.handle.net/1854/LU-01GMN0S8TN519K9F5KR2WZN91D	4
[Radevski 2022] Radevski G, Grujicic D, Blaschko M, Moens M-F, Tuytelaar T,"Students taught by multimodal teachers are superior action recognizers", in Proceedings of the 2nd International Ego4D Workshop, 2022.	https://arxiv.org/pdf/2210.04331.pdf	4
[Radulescu2022] Rădulescu, R., Verstraeten, T., Zhang, Y., Mannion, P., Roijers, D. M., & Nowé, A. (2022). Opponent learning awareness and modelling in multi-objective normal form games. Neural Computing and Applications, 34(3), 1759-1781.	https://link.springer.com/article/10.1007/s00521-021-06184-3#Ack1	3
[Rajeswar 2022] Rajeswar, S. ; Mazzaglia, P. ; Verbelen, T. ; Piché, A. ; Dhoedt, B. ; Courville, A. ; Lacoste, A. , "Unsupervised Model-based Pre-training for Data-efficient Reinforcement Learning from Pixels", 2022, Decision Awareness in Reinforcement Learning Workshop at ICML 2022. 2022. p.1-16		2
[Robberechts 2022] Robberechts P, Meert W, Davis J, "Elastic Product Quantization for Time Series", In Proceedings of 25th International Conference on Discovery Science, 2022.		1
[RodrigoBonet2022a] E. Rodrigo Bonet, T. H. Do, X, Qin, J. Hofman, V. Panzica La Manna, W. Philips, N. Deligiannis, "Explaining Graph Convolutional Neural Networks with Topology-Aware Node Selection: Application in Air Quality Inference", IEEE Transactions on Signal and Information Processing Over Networks, vol. 8, pp. 499-513, 2022.	https://researchportal.vub.be/en/publications/explaining-graph	4
[RodrigoBonet2022b] E. Rodrigo Bonet, T. H. Do, X, Qin, J. Hofman, V. Panzica La Manna, W. Philips, N. Deligiannis. Conditioned Variational Graph Autoencoder for Air Quality Forecasting. European Signal Processing Conference (EUSIPCO), 2022.	https://eurasip.org/Proceedings/Eusipco/Eusipco2022/pdfs/00	4

[Romero 2022] Romero M, Nakano F K, Flinke J, Rocha C, Vens C, "Leveraging class hierarchy for detecting missing annotations on hierarchical multi-label classification", Computers in Biology and Medicine", vol. 152, Art.No. 106423, 2022.		1
[Romero 2022] Romero, R. ; Kang, B. ; De Bie, T. , "Graph-survival: A survival analysis framework for machine learning on temporal networks", presented at the ECML-PKDD 2022 PhD Forum, Grenoble, France, 2022.		1
[Ropke2022] Röpke, Willem; Radulescu, Roxana; Nowe, Ann; Roijers, Diederik M. Commitment and Cyclic Strategies in Multi-Objective Games. Paper presented at Adaptive and Learning Agents Workshop 2022.	https://ala2022.github.io/papers/ALA2022_paper_25.pdf	3
[Ropke2022b] Röpke, Willem; Roijers, Diederik M.; Nowe, Ann; Radulescu, Roxana. On Nash Equilibria in Normal-Form Games With Vectorial Payoffs. In: Autonomous Agents and Multi-Agent Systems, 2022.	https://link.springer.com/article/10.1007/s10458-022-09582-6	3
[Ropke2022c] Röpke, Willem; Roijers, Diederik M.; Nowe, Ann; Radulescu, Roxana. Preference Communication in Multi-Objective Normal-Form Games. In: Neural Computing & Applications, Vol. 2022, 20.07.2022.	https://link.springer.com/article/10.1007/s00521-022-07533-6#Ack1	3
[Roy2022] Roy B, Stepisnik T, The Pooled Resource Open-Acces ALS Clinical Trials, Vens C, Dzeroski S, "Survival analysis with semi-supervised predictive clustering trees", Computers In Biology And Medicine, vol. 141, Art.No. 105001, 2022.		1
[Rozo 2022] Rozo A, Moeyersons J, Morales J, Garcia van der Westen R, Lijnen L, Smeets C, Jantzen S, Monpellier V, Ruttens D, Van Hoof C, Van Huffel S, Groenendaal W, Varon C, "Data Augmentation and Transfer Learning for Data Quality Assessment in Respiratory Monitoring", Frontiers in Bioengineering and Biotechnology, vol. 10, pp. , 2022.		1
[Safa 2022] Safa, A. ; Verbelen, T. ; Ocket, I. ; Bourdoux, A. ; Catthoor, F. ; Gielen, G. G. E. , "Fail-safe human detection for drones using a multi-modal curriculum learning approach", IEEE Robot. Autom. Lett. 2022. 7 (1) p.303-310, 2022		2
[Sartori 2022a] Sartori C S, Smet P, Vanden Berghe G, "Scheduling truck drivers with interdependent routes under European Union regulations", European Journal of Operational Research, vol 298(1), pp. 76-88, 2022.		1

[Sartori 2022b] Sartori C S, Smet P, Vanden Berghe G, "Truck driver scheduling with interdependent routes and working time constraints", Accepted for publication in EURO Journal on Transportation and Logistics, 2022.		1
[Schelles 2022] Schelles M, Wouters J, Asamoah B, Mc Laughlin M, Bertrand A, "Objective evaluation of stimulation artefact removal techniques in the context of neural spike sorting", Journal of Neural Engineering, vol. 19/1, 2022.		1
[Schouterden2022] Schouterden J, Bekker J, Davis J, Blockeel H, "Unifying Knowledge Base Completion with PU Learning to Mitigate the Observation Bias", In Proceedings of the Thirty-Sixth AAAI Conference on Artificial Intelligence, 2022.		1
[Scott 2022a] Scott K, Delobelle P, Berendt B, "Measuring Shifts in Attitudes Towards COVID-19 Measures in Belgium", Computational Linguistics in the Netherlands Journal, vol. 11, pp. 161-171, 2022		1
[Scott 2022b] Scott K, Wang S M, Milagros M, Delobelle P, Sztandar-Sztanderska K, Berendt B, "Algorithmic Tools in Public Employment Services: Towards a Jobseeker-Centric Perspective" In Proceedings of FAccT '22, 2022.		1
[Seabra2022] Seabra, S. G., Libin, P. J. K., Theys, K., Zhukova, A., Potter, B. I., Nebenzahl-Guimaraes, H., Gorbalenya, A. E., Sidorov, I. A., Pimentel, V., Pingarilho, M., de Vasconcelos, A. T. R., Dellicour, S., Khouri, R., Gascuel, O., Vandamme, A-M., Baele, G., Cuypers, L., & Abecasis, A. B. (2022). Genome-wide diversity of Zika virus: Exploring spatio-temporal dynamics to guide a new nomenclature proposal. Virus Evolution, 8(1), 1-15. [veac029]	https://doi.org/10.1093/ve/veac029	3
[Seeuws 2022] Seeuws N, De Vos M, Bertrand A, "Electrocardiogram Quality Assessment using Unsupervised Deep Learning", IEEE Transactions on Biomedical Engineering, vol. 69, no. 2, pp. 882-893, 2022.		1

[Shi 2022a] Shi X, Nikolic G, Fischaber S, Black M, Rankin D, Epelde G, Beristain A, Alvarez R, Arrue M, Pita Costa J, Grobelnik M, Stopar L, Pajula J, Umer A, Poliwoda P, Wallace J, Carlin P, Paakkonen J, De Moor B, "System Architecture of a European Platform for Health Policy Decision Making: MIDAS", Frontiers in Public Health, vol. 10, pp. , 2022.		1
[Shi 2022b] Shi X, Qu T, Van Pottelbergh G, van den Akker M, De Moor B, "A Resampling Method to Improve the Prognostic Model of End-Stage Kidney Disease: A Better Strategy for Imbalanced Data", Fronties in Medicine, vol. 9, 2022.		1
[Simm 2022] Simm J, Arany A, De Brouwer E, Moreau Y, "Expressive Graph Informer Networks", in Proceedings of the 7th International Conference on Machine Learning, Optimization, and Data Science (LOD) / 1st Symposium on Artificial Intelligence and Neuroscience (ACAIN), pp. 198-212, 2022.		1
[Simpson-Yap 2022] Simpson-Yap S, Pirmani A, Kalincik T, De Brouwer E, Geys L, Parciak T, Helme A, Rijke N, Hillert JA, Moreau Y, Edan G, Sharmin S, Spelman T, McBurney R, Schmidt H, Bergmann AB, Braune S, Stahmann A, Middleton RM, Salter		1
[Simpson-Yap2022a] S. Simpson-Yap, A. Pirmani, E. De Brouwer, et al. "Severity of COVID19 infection amongst patients with multiple sclerosis treated with interferon-β, MS and Related Disorders, Vol 66, 104072, 2022.		1
[Simpson-Yap2022b] S. Simpson-Yap, A. Pirmani, T. Kalincik, et al. "Updated Results of the COVID-19 in MS Global Data Sharing Initiative: Anti-CD20 and Other Risk Factors Associated With COVID-19 Severity", Neurology: Neuroimmunology and Neuroinflammation, Vol 9, 2022.		1
[Singh2022] Singh, Akash, Tom De Schepper, Kevin Mets, Peter Hellinckx, José Oramas, and Steven Latré. 2022. "Deep Set Conditioned Latent Representations for Action Recognition". In 17th International Joint Conference on Computer Vision, Imaging And, Computer Graphics Theory and Applications (VISIGRAPP) / 17th, International Conference on Computer Vision Theory and Applications, (VISAPP),	https://doi.org/10.5220/0010838400003124	4

[Sizyakin 2022a] Sizyakin, R. ; Voronin, V. ; Pizurica, A. , "Virtual restoration of paintings based on deep learning", 2022, Fourteenth International Conference on Machine Vision (ICMV 2021). 2022. SPIE. 12084	https://doi.org/10.1117/12.2624371	1
[Sizyakin 2022b] Sizyakin, R. ; Voronin, V. ; Zelensky, A. ; Pizurica, A. , "Virtual restoration of paintings using adaptive adversarial neural network", 2022, J. Electron. Imaging. 2022.		1
[Steassens2022] T. Staessens, T. Lefebvre, and G. Crevecoeur. "Adaptive control of a mechatronic system using constrained residual reinforcement learning." IEEE Transactions on Industrial Electronics, vol. 69, no. 10, pp. 10447-10456, 2022.		1
[Steels2022a] Steels, L., Verheyen, L., van Trijp, R. An experiment in measuring understanding. In Proceedings of the First International Conference on Hybrid Human-Artificial Intelligence, pp 241-242. 2022.	https://www.hhai-conference.org/wp-content/uploads/2022/0	4
[Steels2022b] Steels, L., Verheyen, L. Quantifying the contribution of different knowledge source in narrative-based understanding. Accepted at BNAIC/BENELEARN 2022.		4
[Strypsteen 2022] Strypsteen T, Bertrand A, "Bandwidth-efficient distributed neural network architectures with application to neuro-sensor networks", Accepted for		1
[Tang 2022a] M. Tang, R. Perez-Fernandez and B. De Baets, Ordinal classification with a spectrum of information sources, Expert Systems with Applications 208 (2022), 118163.		1
[Tang 2022b] M. Tang, R. Perez-Fernandez and B. De Baets, A comparative study of machine learning methods for ordinal classification with absolute and relative information, Internat. J. Knowledge-Based Systems 230 (2021), 107358.		1
[Temsamani2022] Abdellatif Bey Temsamani, Anil Kumar Chavali, Ward Vervoort, Tinne Tuytelaars, Gorjan Radevski, Hugo Van hamme, Kevin Mets, Matthias Hutsebaut-Buysse, Tom De Schepper, and Steven Latré. "A multimodal AI approach for intuitively instructable autonomous systems: a case study of an autonomous off-highway vehicle" The Eighteenth International Conference on Autonomic and Autonomous Systems (ICAS), 2022.	https://www.thinkmind.org/index.php?view=article&articleid=	4

[Terrucha 2022] Terrucha, I. ; Dmingos, E. F. ; Santos, F. C. ; Simoens, P. ; Lenaerts, T. , "The art of compensation : how hybrid teams solve collective risk dilemmas", ALA 2020 : workshop at AAMAS 2022. 2022., 2022		2
[Theodorakos 2022a] Theodorakos K, Agudelo O M, Espinoza M, De Moor B, "Decomposition-Residuals Neural Networks: Hybrid system identification applied to electricity demand forecasting", IEEE Open Access Journal of Power and Energy, vol. 9, pp. 241-253, 2022.		1
[Theodorakos2022b] Theodorakos K, Agudelo O M, Schreurs J, Suykens J, De Moor B, "Island Transpeciation: A Co-Evolutionary Neural Architecture Search, applied to country-scale air-quality forecasting", Accepted for publication in IEEE Transactions on Evolutionary Computation, 2022.		1
[Tilborghs 2022a] Tilborghs S, Bogaert J, Maes F, "Shape-constrained CNN for segmentation guided prediction of myocardial shape and pose parameters in cardiac MRI", Medical Image Analysis, vol. 81, 2022.		1
[Tilborghs 2022b] Tilborghs S, Bertels J, Robben D, Vandermeulen D, Maes F, "The Dice loss in the context of missing or empty labels: introducing psi and epsilon", in Lecture Notes in Computer Science, Proceedings of MICCAI 2022, 2022.		1
[Tiulpin 2022] Tiulpin A, Blaschko M B, "Greedy Bayesian Posterior Approximation with Deep Ensembles", Transactions on Machine Learning Research, 2022.		1
[Tokpo 2022]Ewoenam Kwaku Tokpo and Toon Calders. 2022. Text Style Transfer for Bias Mitigation using Masked Language Modeling. In Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies: Student Research Workshop, pages 163–171, Hybrid: Seattle, Washington + Online. Association for Computational	https://aclanthology.org/2022.naacl-srw.21.pdf	1
[Torneri2022] Torneri, A., Willem, L., Colizza, V., Kremer, C., Meuris, C., Darcis, G., Hens, N., & Libin, P. J. K. (2022). Controlling SARS- CoV-2 in schools using repetitive testing strategies. eLife, 11, [e75593].	https://doi.org/10.7554/elife.75593	3

[Ueyoshi 2022] Ueyoshi K, Papistas I A, Houshmand P, Sarda G M, Jain V, Shi M, Zheng Q, Giraldo S, Vranckx P, Doevenspeck J, Bhattacharjee D, Cosemans S, Mallik, A, Debacker P, Verkest D, Verhelst M, "DIANA: An End-to-End Energy-Efficient Digital and ANAlog Hybrid Neural Network SoC", In Proceedings of the 2022 IEEE International Conference on Solid-State Circuits (ISSCC), vol. 65, 2022. doi: 10.1109/ISSCC42614.2022.9731716	doi: 10.1109/ISSCC42614.2022.9731716	2
[Valkiers 2022] Valkiers S, de Vrij N, Gielis S, Verbandt S, Ogunjimi B, Laukens K, Meysman P. Recent advances in T-cell receptor repertoire analysis: bridging the gap with multimodal single-cell RNA sequencing. ImmunoInformatics. 2022 Jan 25:100009.	https://doi.org/10.1016/j.immuno.2022.100009	1
[Vamplew2022] Vamplew, Peter; Smith, Benjamin J.; Källström, Johan; De Oliveira Ramos, Gabriel; Radulescu, Roxana; Roijers, Diederik M.; Hayes, Conor F.; Heintz, Fredrik; Mannion, Patrick; Libin, Pieter; Dazeley, Richard; Foale, Cameron. Scalar reward is not enough : A response to Silver, Singh, Precup and Sutton (2021). In: Autonomous Agents and Multi-Agent Systems, Vol. 36, 41, 16.07.2022, p. 1-19.	https://link.springer.com/article/10.1007/s10458-022-09575-5	3
[Van Daele 2022] Van Daele, D. ; Weytjens, B. ; De Raedt, L. ; Marchal, K. , "OMEN : network-based driver gene identification using mutual exclusivity", Bioinformatics.	https://doi.org/10.1093/bioinformatics/btac312	1
[Van de Maele 2022] Van de Maele, T. ; Ferraro, S. ; Verbelen, T. ; Dhoedt, B. , "Enforcing object permanence using hierarchical, object-centric generative models", presented at the NeurIPS2022, the 36th Conference on Neural Information Processing Systems, New Orleans, USA, 2022.		2
[Van de Maele 2022] Van de Maele, T. ; Verbelen, T. ; Catal, O. ; Dhoedt, B. , "Embodied object representation learning and recognition", Front. Neurorobotics.		2
[VanBaelen 2022] Van Baelen Q, Karsmakers P, "Constraint Guided Gradient Descent: Guided Training with Inequality Constraints". In Proceedings of the 30th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, 2022		1
[Vanbesien 2022] Vanbesien L, Bruynooghe M, Denecker M, "Analyzing Semantics of Aggregate Answer Set Programming Using Approximation Fixpoint Theory", Theory and practice of Logic programing, 2022.		1

[Vandaele 2022b] R. Vandaele, B. Kang, J. Lijffijt, T. De Bie, Y. Saeys: Topologically Regularized Data Embeddings. ICLR 2022		1
[Vandecappelle 2022a] Vandecappelle M, De Lathauwer L, "From multilinear SVD to multilinear UTV decomposition", Signal Processing, vol. 198, 2022.		1
[Vandecappelle 2022b] Vandecappelle M, De Lathauwer L, "Updating the multilinear UTV decomposition", IEEE Transactions on Signal Processing, vol. 70, pp. 3551-3565, 2022.		1
[Vandenberghe 2022] Vandenberghe A, Wamba Momo L, Scheltjens V, De Moor B, "Multimodal Deep Learning for Early Length of Stay Prediction using Patient Similarity Embeddings", in Proceedings of the BNAIC/BeNeLearn 2022, 2022.		1
[Vander Mijnsbrugge2022]D. Vander Mijnsbrugge, F. Ongenae, S. Van Hoecke, Context-Aware Deep Learning with Dynamically Assembled Weight Matrices. Vander Mijnsbrugge, David and Ongenae, Femke and Van Hoecke, Sofie, Context-Aware Deep Learning with Dynamically Assembled Weight Matrices. Available at SSRN: https://ssrn.com/abstract=4182104 or http://dx.doi.org/10.2139/ssrn.4182104	http://dx.doi.org/10.2139/ssrn.4182104	1
[VanderAa2022] Tom Vander Aa, Tom Haber, Thomas J. Ashby, Roel Wuyts, Wilfried Verachtert, "Virtual Screening on FPGA: Performance and Energy versus Effort" accepted for publication in Eighth International Workshop on Heterogeneous		2
[Vandeurzen2022] Bram van Deurzen, Herman Bruyninckx, and Kris Luyten. 2022. Choreobot: A Reference Framework and Online Visual Dashboard for Supporting the Design of Intelligible Robotic Systems. Proc. ACM Hum.-Comput. Interact. 6, EICS, Article 151 (June 2022), 24 pages.	https://doi.org/10.1145/3532201	4
[Vandevelde 2022a] Vandevelde S, Callewaert B, Vennekens J, "Context-Aware Verification of DMN", HICSS, online		1
[Vandevelde 2022b] Vandevelde S, Jordens J, Van Doninck B, Witters M, Vennekens J, "Knowledge-Based Support for Adhesive Selection", In proceedings of the International Conference on Logic Programming and Nonmonotonic Reasoning, 2022. (https://link.springer.com/chapter/10.1007/978-3-031-15707-3_34#citeas)		1

[Vandevelde 2022c] Vandevelde S, Callewaert B, Vennekens J, " Interactive Feature Modeling with Background Knowledge for Validation and Configuration", In Proceedings of the International Workshop on Configuration, 2022		1
[Vandewinckele 2022] Vandewinckele L, Willems S, Lambrecht M, Berkovic P, Maes F, Crijns W, "Treatment plan prediction for lung IMRT using deep learning based fluence map generation", Physica Medica, vol. 99, pp. 44-54, 2022.		1
[VanHauwermeiren2022a] Van Hauwermeiren, W., Filipan, K., Botteldooren, D., & De Coensel, B. (2022). "A scalable, self supervised calibration and confounder removal model for opportunistic monitoring of road degradation". Computer-Aided Civil and Infrastructure Engineering.	https://onlinelibrary.wiley.com/doi/full/10.1111/mice.12821	4
[VanHauwermeiren2022b] van Hauwermeiren, W., Hou, Y., Filipan, K., & Botteldooren, D. (2022, July). Sensor characterization for supporting de-noising and auto-calibration of sensor data. In 2022 International Joint Conference on Neural	https://ieeexplore.ieee.org/document/9892967/	4
[VanHoutte2022] Van Houtte, Jeroen, Emmanuel Audenaert, Guoyan Zheng, and Jan Sijbers. "Deep Learning-based 2D/3D Registration of an Atlas to Biplanar X-ray Images". International Journal of Computer Assisted Radiology and Surgery 17 (7): 1333–42, 2022.	https://doi.org/10.1007/S11548-022-02586-3	1
[Van Hauwermeiren2022] Van Hauwermeiren W, Hou Y, Filipan K, Botteldooren D. Sensor characterization for supporting de-noising and auto-calibration of sensor data. In: 2022 International Joint Conference on Neural Networks (IJCNN). IEEE;	https://doi.org/10.1109/ijcnn55064.2022.9892967	4
[VanHuffel 2022a] K. Van Huffel, M. Stock and B. De Baets, BioCCP.jl: Collecting Coupons in combinatorial biotechnology, Bioinformatics 38 (2022), 1144-1145.		1
[VanHuffel 2022b] K. Van Huffel, M. Stock, T. Ruttink and B. De Baets, Covering the combinatorial design space of multiplex CRISPR/Cas experiments in plants, Frontiers in Plant Science 13 (2022), 907095.		1

[Vaulet 2022a] Vaulet T, Al-Memar M, Fourie H, Bobdiwala S, Saso S, Pipi M, Stalder C, Bennett P, Timmerman D, Bourne T, De Moor B, "Gradient boosted trees with individual explanations : an alternative to logistic regression for viability prediction in the first trimester of pregnancy", Computer Methods And Programs In Biomedicine, vol. 213, 2022.		1
[Vaulet 2022b] Vaulet T, Divard G, Thaunat O, Koshy P, Lerut E, Senev A, Aubert O, Van Loon E, Callemeyn J, Emonds M-P, Van Craenenbroeck A, De Vusser K, Sprangers B, Rabeyrin M, Dubois V, Kuypers D, De Vos M, Loupy A, De Moor B, Naesens M, "Data-Driven Chronic Allograft Phenotypes: A Novel and Validated		1
[Venturini 2022a] Venturini M, Nakano F K, Vens C, "PT-MESS: a Problem-Transformation approach for Multi-Event Survival analysis", In Proceedings of the Workshop on Scarce Data in Artificial Intelligence for Healthcare at IJCAI/ECAI,		1
[Venturini 2022b] Venturini M, Van Keilegom I, De Corte W, Vens C, "A Novel Survival Analysis Approach to Predict the Need for Intubation in Intensive Care Units" In proceedings of Artificial Intelligence In Medicine, vol. 13263, 2022.		1
[Verbelen 2022] Verbelen, T. ; de Tinguy, D. ; Mazzaglia, P. ; Catal, O. ; Safron, A. , "Chunking space and time with information geometry",presented at the NeurIPS2022, the 36th Conference on Neural Information Processing Systems, New Orleans, USA, 2022.		2
[Vercruyssen 2022] Vercruyssen V, Perini L, Meert W, Davis J, "Multi-domain Active Learning for Semi-supervised Anomaly Detection", In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, 2022.		1
[Verheyen2022a] Verheyen, L., Botoko Ekila, J., Nevens, J., Van Eecke, P. & Beuls, K. Hybrid Procedural Semantics for Visual Dialogue: An Interactive Web Demonstration. In Proceedings of the First Workshop on Semantic Techniques for Narrative-based Understanding. 2022.		4

[Verheyen2022b] Verheyen, L., Botoko Ekila, J., Nevens, J., Van Eecke, P. & Beuls, K. Hybrid Procedural Semantics for Visual Dialogue. Accepted CLIN32 (computational linguistics in the Netherlands), 2022.		4
[Vermeersch 2022] Vermeersch C, De Moor B, "Two Complementary Block Macaulay Matrix Algorithms to Solve Multiparameter Eigenvalue Problems", Linear Algebra And Its Applications, vol. 654, pp. 177-209, 2022.		1
[Vermeire 2022] Vermeire Tom, Brughmans Dieter, Goethals Sofie, Mazzine Barbosa de Oliveira Raphael, Martens David, "Explainable image classification with evidence counterfactual", Pattern analysis and applications, 25:2(2022), pp. 315-335	https://doi.org/10.1007/S10044-021-01055-Y	1
[Verreet 2022] Verreet V, Derkinderen V, Zuidberg Dos Martires P, De Raedt L, "Inference and Learning with Model Uncertainty in Probabilistic Logic Programs", In Proceedings of the Thirty-Sixth AAAI Conference on Artificial Intelligence, Vol. 36(9), pp. 10060-10069, 2022.		1
[Villa 2022] Villa A, Vandenberk B, Kentta T, Ingelaere S, Huikuri H, Zabel M, Friede T, Sticherling C, Tuinenburg A, Malik M, Van Huffel S, Willems R, Varon C, "A machine learning algorithm for electrocardiographic fQRS quantification validated on multi-center data", SCIENTIFIC REPORTS, vol. 12/1, 2022.		1
[Wallbridge 2022] Wallbridge, C. D. ; Smith, A. ; Giuliani, M. ; Melhuish, C. ; Belpaeme, T. ; Lemaignan, S. , "The effectiveness of dynamically processed incremental descriptions in human robot interaction", ACM trans. hum. robot	10.1145/3481628	4
[Wan 2022] Wan B, Han W, Zheng Z, Tuytelaars T, "Unsupervised Vision-Language Grammar Induction with Shared Structure Modeling", In Proceeding of the International Conference on Learning Representations (ICLR 2022), 2022.	https://openreview.net/pdf/5c104842d13e8d6efd55b6d7c04f4373a39eae18.pdf	4
[Wang 2022] Wang P, Van hamme H, "Bottleneck low-rank transformers for low-resource spoken language understanding", In Proceedings of Interspeech 2022, pp. 1248 – 1252, 2022.	10.21437/Interspeech.2022-10801	4
[Wang 2022a] C. Wang, G. Peng and B. De Baets, Joint global metric learning and local manifold preservation for scene recognition, Information Sciences 610 (2022),		1

[Wang 2022a] Wang Z, Blaschko M B, "Optimizing Slimmable Networks for Multiple Target Platforms", In Proceedings of the Northern Lights Deep Learning Conference, 2022.		1
[Wang 2022b] C. Wang, G. Peng and B. De Baets, Embedding metric learning into an extreme learning machine for scene recognition, Expert Systems with Applications 203 (2022), 117505.		1
[Wang 2022b] Wang Z, Blaschko M B, "MRF-UNets: Searching UNet with Markov Random Fields", In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML), 2022.		1
[Wang 2022c] C. Wang, G. Peng and B. De Baets, Class-specific discriminative metric learning for scene recognition, Pattern Recognition 126 (2022), 108589.		1
[Wang2022] Wang, Shang; Reymond, Mathieu; Irissappane, Athirai A.; Roijers, Diederik M. Near On-Policy Experience Sampling in Multi-Objective Reinforcement Learning. The 21st International Conference on Autonomous Agents and Multiagent Systems. IFAAMAS, 2022.	https://www.ifaamas.org/Proceedings/aamas2022/pdfs/p1756.pdf	3
[Wauters 2022] J. Wauters, J. Degroote, I. Couckuyt, and G. Crevecoeur, "SAMURAI: A New Asynchronous Bayesian Optimization Technique for Optimization-Under-Uncertainty", AIAA Journal, 1-24, 2022		1
[Wauthier 2022a] Wauthier, S. ; De Boom, C. ; Catal, O. ; Verbelen, T. ; Dhoedt, B. , "Model reduction through progressive latent space pruning in deep active inference", Front. Neurorobotics. 2022. 16, 2022	10.3389/fnbot.2022.795846	2
[Wauthier 2022b] Wauthier, S. ; Vanhecke, B. ; Verbelen, T. ; Dhoedt, B. , "Tensor networks for active inference with discrete observation spaces", presented at the Machine Learning and the Physical Sciences workshop, part of NeurIPS2022, the 36th Conference on Neural Information Processing Systems, New Orleans, USA,		2
[Werthen 2022a] L. Werthen-Brabants, G. Bhavanasi, I. Couckuyt, T. Dhaene, D. Deschrijver, "Split BiRNN for real-time activity recognition using radar and deep learning", Scientific Reports, Vol. 12, No. 1, pp. 1-11, 2022.	10.1038/s41598-022-08240-x	1

[Werthen 2022b] L. Werthen-Brabants, "Uncertainty quantification for appliance recognition in non-intrusive load monitoring using Bayesian deep learning", Energy & Buildings, Vol. 270, 112282, 2022.		1
[Willems2022] Willems, Jeroen; Eryilmaz, Kerem; Steckelmacher, Denis; Depraetere, Bruno; Beck, Rian; Bey-Temsamani, Abdellatif; Helsen, Jan; Nowe, Ann. Fast initialization of control parameters using supervised learning on data from similar assets. 6th IEEE Conference on Control Technology and Applications (CCTA) 2022.	https://researchportal.vub.be/en/publications/fast-initialization-of-control-parameters-using-supervised-learni	3
[Winters 2022] Winters T, Marra G, Manhaeve R, De Raedt L, "DeepStochLog: Neural Stochastic Logic Programming", In Proceedings of the Thirty-Sixth AAAI Conference on Artificial, 2022.		1
[Wolfert 2022] Wolfert, P. ; Robinson, N. ; Belpaeme, T. , "A review of evaluation practices of gesture generation in embodied conversational agents", IEEE T. Hum.-Mach. Syst. 2022. 52 (3) p.379-389, 2022		4
[Yang 2022a] Yang W, Raskin J F, De Raedt L, "Lifted Model Checking for Relational MDPs", Machine Learning, 2022.		1
[Yang 2022b] Yang W, Jain A, De Raedt L, Meert W, "Parameter Learning in ProbLog with Annotated Disjunctions", Advances in Intelligent Data Analysis XX, vol. 13205, pp. 378-391, 2022.		1
[Yang2022c] Y. Yang, P. Xiao, N. Deligiannis, "Locating Underwater Sources from Binary Measurements," accepted to Digital Signal Processing, 2022.		4
[Yperman 2020b] J.Yperman J, Popescu V, Van Wijmeersch B, Becker T, Peeters LM., Motor evoked potentials for multiple sclerosis, a multiyear follow-up dataset, Sci Data. 2022 May 16;9(1):207.	doi: 10.1038/s41597-022-01335-0	1
[Zaporojets2022] Zaporojets, K., Kaffee, L.-A., Demeester, T., Develder, C., & Augenstein, I. (2022). TempEL: Linking dynamically evolving and newly emerging entities. Presented at the NeurIPS2022, the 36th Conference on Neural Information Processing Systems, New Orleans.	http://hdl.handle.net/1854/LU-01GJYVX4TCYCKP2WJG8BM32EC4	4

[Zhang 2022] Zhang J, Chatzichristos C, Vandecasteele K, Swinnen L, Broux V, Cleeren E, Van Paesschen W, De Vos M, "Automatic annotation correction for wearable EEG based epileptic seizure detection", Journal of Neural Engineering, vol.		1
[Zhang 2022a] Zhang, H. ; Ouyang, Y. ; Wang, Z. ; De Baets, B. , "A characterization of idempotent nullnorms on bounded lattices", 2022, Inf. Sci. 2022. 586 p.676-687	https://doi.org/10.1016/j.ins.2021.12.004	1
[Zhang 2022b] Zhang, H. ; Ouyang, Y. ; Wang, Z. ; De Baets, B. , "A complete representation theorem for nullnorms on bounded lattices with ample illustrations", 2022, Fuzzy Sets Syst. 2022. 439 p.157-169	https://doi.org/10.1016/j.fss.2021.08.012	1
[Zhang 2022c] Zhang, H. ; Wang, Z. ; Ouyang, Y. ; De Baets, B. , "A representation of nullnorms on a bounded lattice in terms of beam operations", 2022, Fuzzy Sets Syst. 2022. 427 p.149-160	https://doi.org/10.1016/j.fss.2020.11.004	1