

Jakub M. Tomczak

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Scholar <https://scholar.google.com/citations?user=XB99pR4AAAAJ>

Summary

- **15y** experience in academia: **7y** as a postdoc/researcher, **5y** as an assistant/associate professor
- **4y** experience working in and for industry
- carrying out cutting-edge research on AI (**1** book, over **50** conference & journal papers)
- experienced project manager and PI (~**1 700 000** € in grants)
- experienced project developer of AI models & methods (**2** patents & **1** patent application)

WORK EXPERIENCE

Feb 2023 - now **Eindhoven University of Technology**, the Netherlands (**academia**)
Associate Professor & head of "Generative AI" group

Role: The head of the Generative AI group carrying out research on deep generative modeling, deep learning, and machine learning with applications to computer vision (image processing, medical imaging, neural compression), foundation models, biology, chemistry, biochemistry; involved in project management (KPIs and goals formulation, supervision & mentoring of Ph.D. students, M.Sc. students, and B.Sc. students), project development (models/algorithms implementation: Python & PyTorch & scikit-learn, version control using Git), grant writing, scientific writing; coordinating & teaching courses ("Generative AI Models"); selecting committees and MSC coordinator

Oct 2022 - now **Amsterdam AI Solutions**, the Netherlands (**industry**)
Founder & CSO

Role: founder, AI consulting, ModelOps (developing, managing, deploying & integrating, and monitoring ML/AI models), MLOps, AIOps, applications in computer vision, Life Sciences, fintech, among others
Success stories: NatInLab (development of an AI platform for automatic drug discovery), DeepFlare (development of a deep-learning-based method for biological activity prediction), ALM Services (development of Generative AI tools for data representation & augmentation), Alpha-moon (coaching on AI), xLab (Development of Large Language Models for fintech), Microtrac (Verder Group; applications of AI to particle characterization)

Nov 2019 - Feb 2023 **Vrije Universiteit Amsterdam**, the Netherlands (**academia**)
Assistant Professor

Role: carrying out research on deep generative modeling, deep learning, machine learning, and derivative-free optimization, applications to computer vision (image processing, medical imaging, neural compression), robotics, Life Sciences; involved in project management (KPIs and goals formulation, supervision & mentoring: 7 Ph.D. students, 24 M.Sc. students, 10 B.Sc. students), project development (models/algorithms implementation: Python & PyTorch & scikit-learn, version control using Git), grants writing, scientific writing (1 book, multiple articles); departmental roles: admission & pre-master coordinator, selecting committees; coordinating & teaching courses ("Deep Learning", "Computational Intelligence")

Oct 2018 - Dec 2019 **Qualcomm AI Research**, Amsterdam, the Netherlands (**industry**)
Deep Learning Scientist (Staff Engineer)

Role: working on AI (video compression, Bayesian optimization, deep learning); involvement in hiring processes, being a mentor for interns, co-leading a team, project management and development (scrum, agile software development/management, models/algorithms implementation: Python & PyTorch, version control using Git, Docker, AWS, cluster computing, KPIs and goals formulation); scientific writing (multiple articles); guest lecturing (1 course)

- Oct 2016 - Sept 2018** **Universiteit van Amsterdam**, the Netherlands (**academia**)
Postdoc/Marie Skłodowska-Curie Individual Fellow, supervision: Prof. Max Welling
- Role: carrying out research on deep generative modeling, deep learning and machine learning for computer vision (image processing and medical imaging); involvement in project management (KPIs and goals formulation, supervision & mentoring: 1 Ph.D. student, 5 M.Sc. students), project development (models/algorithms implementation: Python & Keras & Tensorflow & PyTorch, version control using Git), grant writing, scientific writing (multiple articles); guest lecturing (2 courses)
- Feb 2016 - Jun 2016** **INDATA SA**, Poland (**industry**)
Researcher (part-time)
- Role: conducting research on developing deep learning models based on graph convolutions for virtual screening in drug discovery (ligand-protein interactions); involvement in project management and development (agile software development/management, version control using Git, goals formulation, models/algorithms implementation: Python & Tensorflow & RD-Kit)
- Oct 2014 - Sept 2016** **Wroclaw University of Technology**, Poland (**academia**)
Assistant Professor
- Role: carrying out research on deep generative modeling, deep learning and machine learning (ensemble learning, SVM, decision trees, decision rules) with applications to computer vision (image processing, human motion tracking), biology and medicine; involvement in project management (KPIs and goals formulation, supervision & mentoring: 1 Ph.D. student, 3 M.Sc. students, 6 B.Sc. students), project development (models/algorithms implementation: Python & Theano & Tensorflow & scikit-learn, version control using Git), grant writing, scientific writing (multiple articles); organization of a scientific group; coordinating and teaching multiple courses
- Oct 2012 - Sept 2014** **Wroclaw University of Technology**, Poland (**academia**)
Postdoc, supervision: Prof. Jerzy Swiątek
- Role: carrying out research on deep generative modeling (Boltzmann machines), deep learning and machine learning (ensemble learning, decision trees, decision rules, SVM) with applications to computer vision (image processing) and medicine; involvement in project management (KPIs and goals formulation, supervision & mentoring: 4 B.Sc. students), project development (models/algorithms implementation: Python & Theano & scikit-learn, Matlab, version control using Git), grant writing, scientific writing (multiple articles); teaching multiple courses; consulting for **TK Telekom sp. z o.o.** (Sept 2012 - Dec 2012): teleinformatics, business processes analysis and knowledge graph creation; consulting for **Pol-Miedz Trans sp. z o.o.** (Nov 2013 - Dec 2014): developing search algorithms for Service Oriented Architectures (SOA) in logistics using rough sets and Boltzmann machines & involvement in project management and development (agile software development/management, version control using Git, goals formulation, algorithms implementation in Matlab)
- Jun 2009 - Sept 2012** **Wroclaw University of Technology**, Poland (**academia**)
Ph.D. student / Research Assistant, supervision: Prof. Jerzy Swiątek
- Role: carrying out research on developing algorithms of incremental learning for logic-based representations (adaptive algorithms, change detection, applications: diabetes, teleinformatics), and working on machine learning projects (Gaussian Processes, ensemble learning, SVM, imbalanced data for credit scoring and medicine); involvement in scientific writing (multiple articles), project management and development (algorithms implementation in Matlab and a Java library Weka, goals formulation); teaching and TAing multiple courses

EDUCATION

- Mar 2013** **Ph.D. in Computer Science (*with honors*), track: Machine Learning**
Wroclaw University of Technology, Poland
Title: Incremental Knowledge Extraction from Data for Non-Stationary Objects
Supervisor: Prof. Jerzy Swiątek
- Dec 2009** **M.Sc. in computer science**
Blekinge Institute of Technology, Sweden
Supervisor: Prof. Ludwik Kuzniarz
- Jul 2009** **M.Sc. in computer science**
Wroclaw University of Technology, Poland
Supervisor: Prof. Jerzy Swiątek

GRANTS

- 2024-2028** **Co-Principal Investigator**, TU/e-ASML consortium grant, KPAI (RVO Impuls program), **1 198 778€**
- 2024-2025** **Participant**, consortium grant, REMODEL (HORIZON-MSCA-2022-SE-01), **473 800 €**
- 2022-2025** **Principal Investigator**, Qualcomm Individual Grant, **280 000 €**
- 2022-2023** **Principal Investigator**, Network Institute (VU Amsterdam), **10 000 €**
- 2020-2029** **Researcher**, Dutch Research Council (NWO: Zwaartekracht Programma), **20 000 000 €**
- 2016-2018** **Principal Investigator**, Marie Skłodowska-Curie Individual Fellowship (EU), **177 599 €**
- 2016** **Researcher**, NCR&D (Poland), **7 909 741 PLN**
- 2013-2015** **Researcher**, NCR&D (Poland & EU), **10 672 218 PLN**
- 2009-2013** **Researcher**, NCR&D (Poland & EU), **36 000 000 PLN**
- 2012-2016** **Principal Investigator**, individual grants four times, approx. **10 000 €**

AWARDS & MEMBERSHIPS

- 2023-now** **Eindhoven Artificial Intelligence Systems Institute (EAISI) member (2024-2026: associate)**
- 2023** Transactions of Machine Learning Research (TMLR) Expert Reviewers recognition (**top reviewer**)
- 2021-now** **European Laboratory for Learning and Intelligent Systems (ELLIS) member**
- 2019** Highest scoring reviewer (**top 400**) at NeurIPS 2019
- 2018-now** **Oral presentations:** CVPR 2020, MIDL 2020, UAI 2018 (x2), AISTATS 2018 & 2024
- 2013** The Faculty award for **best Ph.D. theses**, Wroclaw University of Technology
- 2009** **The best M.Sc. thesis in Poland**, Polish Information Processing Society

MANAGERIAL ROLES

- 2023-now** **Group leader (PI)**, Generative AI group, TU/e
- 2023-now** **The M.Sc. program cluster coordinator**, Eindhoven University of Technology
- 2023-2024** **Assessment committee**, NGF AiNed Fellowship Grants, NWO

- 2019-2023** **The M.Sc. AI program admission coordinator**, Vrije Universiteit Amsterdam
- 2019-2021** **The pre-master AI program coordinator**, Vrije Universiteit Amsterdam
- 2012-2016** **The "Modeling and Machine Learning" group coordinator**, Wroclaw University of Technology

SUPERVISION

- Ph.D.** **Accomplished:**
- Maximilian Ilse, October 14, 2022, Universiteit van Amsterdam, co-promotor
 - Gongjin Lan, December 16, 2020, Vrije Universiteit Amsterdam, co-promotor
 - Szymon Zareba, December 13, 2016, Wroclaw Univ. of Technology, co-promotor
 - Emile van Krieken, January 15, 2025, Vrije Universiteit Amsterdam, co-promotor
- Ongoing:**
- David Romero, defense planned for: summer 2024, Vrije Universiteit Amsterdam, co-promotor
 - Jie Luo, defense planned for: summer 2024, Vrije Universiteit Amsterdam, co-promotor
 - Anna Kuzina, defense planned for: spring 2025, Vrije Universiteit Amsterdam, co-promotor
 - Sharvaree Vandgama, defense planned for: summer 2025, Universiteit van Amsterdam, co-promotor
 - Jan Engelmann, defense planned for: fall 2027, Eindhoven University of Technology, promotor
 - Haotian Chen, defense planned for: fall 2028, Eindhoven University of Technology, promotor
 - Mahdi Mehmancji, defense planned for: spring 2029, Eindhoven University of Technology, promotor
- M.Sc.** **ongoing:** 6, Eindhoven University of Technology
Accomplished: 1, Eindhoven University of Technology
Accomplished: 23, Vrije Universiteit Amsterdam
Accomplished: 5, Universiteit van Amsterdam
Accomplished: 3, Wroclaw Univ. of Technology
- B.Sc.** **Accomplished:** 1, Eindhoven University of Technology
Accomplished: 10, Wroclaw Univ. of Technology

TEACHING

- M.Sc.** **Generative AI Models:** coordinator, Eindhoven University of Technology, 2023–2024
Deep Learning: coordinator, Vrije Universiteit Amsterdam, 2020–2022
Learning Machines: lecturer, Vrije Universiteit Amsterdam, 2020
Deep Learning: invited lecturer, Universiteit van Amsterdam, 2018-2019
Multimedia Systems: invited lecturer, Universiteit van Amsterdam, 2018
Decision Support Systems: teacher, Wroclaw Univ. of Technology, 2012-2016
Artificial Intelligence: teacher, Wroclaw Univ. of Technology, 2010-2012
- B.Sc.** **Computational Intelligence:** coordinator, Vrije Universiteit Amsterdam, 2020–2022
Systems Analysis & Decision Making: co-coordinator, Wroclaw Univ. of Technology, 2010-2016
Information Systems in Management: teacher, Wroclaw Univ. of Technology, 2010
Operation Systems: teacher, Wroclaw Univ. of Technology, 2010

TEACHING QUALIFICATIONS

- 2021** **Basiskwalificatie Onderwijs (BKO):** the Netherlands
- 2015** **Didactic Course for Academic Staff:** Poland

SELECTED SCIENTIFIC SERVICES

■ Conferences

Program Chair **NeurIPS**: 2024

Area Chair **NeurIPS**: 2021, 2022, 2023, **ICML**: 2023, **UAI**: 2023, **AISTATS**: 2022, 2023

Reviewer **NeurIPS**: 2018, 2019, 2020, **ICML**: 2019, 2020, 2021, 2022, **ICLR**: 2019, 2020, 2021, 2022, **AISTATS**: 2019, 2020, 2021, **UAI**: 2021, 2022, **MIDL**: 2018, **workshops** (ICML, NeurIPS, CVPR)

Secretary **Int. Conf. on Systems Science 2013**: Wroclaw, Poland,
National Automation Conference 2014: Wroclaw, Poland
Int. Conf. on Systems Science 2016: Wroclaw, Poland

■ Journals

Editor Transactions of Machine Learning Research (Action Editor)

Reviewer Nature Communications, IEEE Trans. on Pattern Analysis and Machine Intelligence, Journal of Machine Learning Research, Transactions of Machine Learning Research, Bioinformatics, Medical Image Analysis, Expert Systems with Applications, IEEE Transactions on Neural Systems & Rehabilitation Engineering, Knowledge-Based Systems, IEEE Journal of Biomedical and Health Informatics, European Journal of Operation Research, Neural Processing Letters, BMC Bioinformatics

■ Other

Examiner Ph.D. examiner: **13** times (2× TU Eindhoven, TU Delft, 4× Univ. of Amsterdam, Univ. of Geneva, Univ. of Liege, Surrey Univ., 2× Oxford Univ., Univ. of Madrid)

Organizer summer school: Generative Modeling Summer School, Eindhoven (the Netherlands), June 23-28, 2024
Generative Modeling Summer School, Copenhagen (Denmark), June 26-30, 2023

Invited talks **8** conferences/workshops: UAI 2023 workshop, Deep Learning Extravaganza at the UvA 2023, AI&Health at VU 2022, SPP 2021, GenU 2021, INNF 2019, ML in PL 2019, PASC 2018
6 academic groups: TII AI 2022, CMS-CERN 2022, AI4Science (UvA) 2021, CERN 2018, CWI Life Sciences 2018, TU/e Data Mining 2017
5 industrial groups: AI Innovation Center 2023, Qualcomm 2022, Booking.com 2021, Vinted 2021, Tooploox 2018
7 summer/winter schools: Generative Modeling Summer School 2023 (**organizer**), Indian CV & ML Summer School 2022, AI TECH 2022, beIT 2021, Nepal Winter School in AI 2021, AwesomeIT Amsterdam 2019, Croatian Data Science Summer School 2018

PUBLICATIONS

■ Book

1. J.M. Tomczak, "Deep Generative Modeling", Springer, Cham, 2022 (**The first comprehensive book on Generative AI**)

■ Conference articles

1. J.P. Engelmann, A. Palma, J.M. Tomczak, F.J. Theis, F.P. Casalem *Attention-based Multi-instance Mixed Models*, AISTATS 2024 (**oral**)

2. E. van Krieken, T. Thanapalasingam, J.M. Tomczak, F. Van Harmelen, A. Ten Teije, *A-NESI: A scalable approximate method for probabilistic neurosymbolic inference*, NeurIPS 2023
3. K. Deja, T. Trzcinski, J.M. Tomczak, *Learning Data Representations with Joint Diffusion Models*, ECML 2023
4. D. Knigge, D. Romero, A. Gu, E. Gavves, E. Bekkers, J.M. Tomczak, M. Hoogendoorn, J.-J. Sonke, *Modeling Long Range Dependencies in N-D: From Task-Specific to a General Purpose CNN*, ICLR 2023
5. A. Kuzina, M. Welling, J.M. Tomczak, *On Alleviating Adversarial Attacks on Variational Autoencoders with MCMC*, NeurIPS 2022
6. K. Deja, A. Kuzina, T. Trzcinski, J.M. Tomczak, *On Analyzing Generative and Denoising Capabilities of Diffusion-based Deep Generative Models*, NeurIPS 2022
7. D.W. Romero, R.-J. Brintjes, J.M. Tomczak, E.J. Bekkers, M. Hoogendoorn, J. van Gemert, *Flexconv: Continuous kernel convolutions with differentiable kernel sizes*, ICLR 2022
8. D.W. Romero, A. Kuzina, E.J. Bekkers, J.M. Tomczak, M. Hoogendoorn, *CKCONV: Continuous kernel convolution for sequential data*, ICLR 2022
9. E. Krieken, J.M. Tomczak, A. ten Teije, *Stochastic: A Framework for General Stochastic Automatic Differentiation*, NeurIPS 2021
10. Y. Perugachi-Diaz, J.M. Tomczak, S. Bhulai, *Invertible DenseNets with concatenated Lipswish*, NeurIPS 2021
11. M. Ilse, J.M. Tomczak, P. Forré, *Selecting data augmentation for simulating interventions*, ICML 2021
12. D.W. Romero, E.J. Bekkers, J.M. Tomczak, M. Hoogendoorn, *Attentive group equivariant convolutional networks*, ICML 2020
13. E. Hoogeboom, V. Garcia Satorras, J.M. Tomczak, M. Welling, *The convolution exponential and generalized Sylvester flows*, NeurIPS 2020
14. J.M. Tomczak, E. Weglarz-Tomczak, A.E. Eiben, *Differential evolution with reversible linear transformations*, GECCO 2020
15. M. Ilse, J.M. Tomczak, C. Louizos, M. Welling, *DIVA: Domain invariant variational autoencoders*, MIDL 2020 (**oral**)
16. D. Abati, J.M. Tomczak, T. Blankevoort, S. Calderara, R. Cucchiara, B. Ehteshami Bejnordi, *Conditional Channel Gated Networks for Task-Aware Continual Learning*, CVPR 2020 (**oral**)
17. I. Gatopoulos, R. Lepert, A. Wiggers, G. Mariani, J.M. Tomczak, *Evolutionary Algorithm with Non-parametric Surrogate Model for Tensor Program Optimization*, IEEE CEC 2020
18. CY. Oh, J.M. Tomczak, E. Gavves, M. Welling, *Combinatorial Bayesian Optimization using the Graph Cartesian Product*, NeurIPS 2019
19. A. Habibian, T. van Rozendaal, J.M. Tomczak, T.S. Cohen, *Video compression with rate-distortion autoencoders*, ICCV 2019
20. T. Davidson, L. Falorsi, N. de Cao, T. Kipf, J.M. Tomczak, *Hyperspherical Variational Auto-Encoders*, UAI 2018 (**oral**)
21. R. van den Berg, L. Hasenclever, J.M. Tomczak, M. Welling, *Sylvester Normalizing Flow for Variational Inference*, UAI 2018 (**oral**)
22. M. Ilse*, J.M. Tomczak*, M. Welling, *Attention-based Deep Multiple Instance Learning*, ICML 2018
23. J.M. Tomczak, M. Welling, *VAE with a VampPrior*, AISTATS 2018 (**oral**)
24. J.M. Tomczak, M. Welling, *Improving Variational Auto-Encoders using convex combination linear Inverse Autoregressive Flow*, Benelearn 2017 2017

25. J.M. Tomczak, M.Welling, *Improving Variational Auto-Encoders using Householder Flow*, NIPS Workshop on Bayesian Deep Learning 2016

■ **Journal articles**

1. J. Luo, K. Miras, J.M. Tomczak, A.E. Eiben, *Enhancing robot evolution through Lamarckian principles*, Scientific Reports 13 (1), 2023
2. J. Luo, A. Stuurman, J.M. Tomczak, J. Ellers, A.E. Eiben, *The Effects of Learning in Morphologically Evolving Robot Systems*, Frontiers in Robotics and AI, 2022
3. F. Lavitt, D.J. Rijlaarsdam, D. vd Linden, E. Weglarz-Tomczak, J.M. Tomczak, *Deep learning and transfer learning for automatic cell counting in microscope images of human cancer cell lines*, Applied Sciences, 2021
4. G. Lan, J.M. Tomczak, D.M. Roijers, A.E. Eiben., *Time efficiency in optimization with a Bayesian-evolutionary algorithm*, Swarm and Evolutionary Computation, 2022
5. G. Lan, M. van Hooft, M. De Carlo, J.M. Tomczak, A.E. Eiben, *Learning locomotion skills in evolvable robots*, Neurocomputing, 2021
6. Y. Perugachi-Diaz, J.M. Tomczak, S. Bhulai, *Deep learning for white cabbage seedling prediction*, Computers and Electronics in Agriculture, 2021
7. E. Weglarz-Tomczak, J.M. Tomczak, M. Talma, M. Burda-Grabowska, M. Giurg, S. Brul, *Identification of ebselelen and its analogues as potent covalent inhibitors of papain-like protease from SARS-CoV-2*, Scientific Reports, 2021
8. I.A. Auzina, J.M. Tomczak, *Approximate Bayesian computation for discrete spaces*, Entropy, 2021
9. I. Gatopoulos, J.M. Tomczak, *Self-supervised variational auto-encoders*, Entropy, 2021
10. E. Weglarz-Tomczak, J.M. Tomczak, S. Brul, *M2R: a Python add-on to cobrapy for modifying human genome-scale metabolic reconstruction using the gut microbiota models*, Bioinformatics, 2021
11. E. Weglarz-Tomczak, D.J. Rijlaarsdam, J.M. Tomczak, S. Brul, *GEM-based metabolic profiling for Human Bone Osteosarcoma under different glucose and glutamine availability*, International Journal of Molecular Sciences, 2021
12. E. Weglarz-Tomczak, J.M. Tomczak, A.E. Eiben, S. Brul, *Population-Based Parameter Identification for Dynamical Models of Biological Networks with an Application to Saccharomyces cerevisiae*, Processes, 2021
13. J.M. Tomczak, E. Weglarz-Tomczak, *Estimating kinetic constants in the MichaelisMenten model from one enzymatic assay using Approximate Bayesian Computation*, FEBS Letters, 2019
14. J.M. Tomczak, S. Zareba, S. Ravanbakhsh, R. Greiner, *Low-Dimensional Perturb-and-MAP Approach for Learning Restricted Boltzmann Machines*, Neural Processing Letters, 2017
15. M. Drewniak, E. Weglarz-Tomczak, K. Ozga, E. Rudzinska-Szostak, K. Macegoniuk, J.M. Tomczak, M. Bejger, W. Rypniewski, L. Berlicki, *Helix-loop-helix peptide foldamers and their use in the construction of hydrolase mimetics*, Bioorganic Chemistry, 2018
16. A. Gonczarek, J.M. Tomczak, S. Zareba, J. Kaczmar, P. Dabrowski, M. Walczak, *Interaction prediction in structure-based virtual screening using deep learning*, Computers in Biology and Medicine, 2017
17. M. Zieba, S. Tomczak, J.M. Tomczak, *Ensemble Boosted Trees with Synthetic Features Generation in Application to Bankruptcy Prediction*, Expert Systems with Applications, Vol. 58, pp. 593–101, 2016
18. J.M. Tomczak, *On some properties of the low-dimensional Gumbel perturbations in the Perturb-and-MAP model*, Statistics and Probability Letters, 2016
19. J.M. Tomczak, A. Gonczarek, *Learning invariant features using Subspace Restricted Boltzmann Machine*, Neural Processing Letters, 2016
20. A. Gonczarek, J.M. Tomczak, *Articulated tracking with manifold regularized particle filter*, Machine Vision and Applications, 2016

21. J.M. Tomczak, *Learning Informative Features from Restricted Boltzmann Machines*, Neural Processing Letters, 2016
22. J.M. Tomczak, M. Zieba, *Probabilistic combination of classification rules and its application to medical diagnosis*, Machine Learning, 2015
23. J.M. Tomczak, M. Zieba, *Classification Restricted Boltzmann Machine for comprehensible credit scoring model*, Expert Systems with Applications, 2015
24. M. Zieba, J.M. Tomczak, *Boosted SVM with active learning strategy for imbalanced data*, Soft Computing, 2014
25. M. Zieba, J.M. Tomczak, J. Swiatek, M. Lubicz, *Boosted SVM for extracting rules from imbalanced data in application to prediction of the post-operative life expectancy in the lung cancer patients*, Applied Soft Computing, 2014
26. J.M. Tomczak, A. Gonczarek, *Decision rules extraction from data stream in the presence of changing context for diabetes treatment*, Knowledge and Information Systems, 2013

PATENTS & PATENT APPLICATIONS

1. Emiel Hoogeboom, Jakub M. Tomczak, Max Welling, Dan Zhang, Device for and computer-implemented method of digital signal processing, US Patent US11823302B2
2. Changyong Oh, Efstratios Gavves, Jakub M. Tomczak, Max Welling, Combinatorial bayesian optimization using a graph cartesian product, US Patent US11842279B2
3. Davide Abati, Babak Ehteshami Bejnordi, Jakub M. Tomczak, Tijmen P.F. Blankevoort, Conditional Computation For Continual Learning, US Patent App. 17/097,811

REFEREES

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Name	Zeynep Akata
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