Grzegorz Marcin Wójcik

Professor of Computer Science and Telecommunication

Curriculum Vitae

Scientific Biography

25.07.2024 **Professorship in Engineering and Technical Sciences in the field of Computer Science and Telecommunication**, *Resolution of the President of the Republic of Poland of July 25, 2024, No. 115.7.2024*, Monitor Polski of August 22, 2024, Pos. 791

18.06.2013 **Habilitation in Technical Sciences in the field of Biocybernetics and Biomedical Engineering**, *Faculty of Automatic Control, Electronics and Computer Science*, Silesian University of Technology, Gliwice, Poland

13.12.2004 **Doctorate in Physical Sciences**, *Faculty of Mathematics, Physics and Computer Science*, Maria Curie-Sklodowska University in Lublin, Poland

2000–2004 **Doctoral studies at Institute of Physics**, *Faculty of Mathematics, Physics and Computer Science*, Maria Curie-Sklodowska University in Lublin, Poland

20.06.2000 **Master's of Science Degree in the field of Computer Physics**, *Faculty of Mathematics and Physics*, Maria Curie-Sklodowska University in Lublin, Poland

1995–2000 **Master studies in Physics**, *Faculty of Mathematics and Physics*, Maria Curie-Sklodowska University in Lublin, Poland

1991–1995 **1st Stanislaw Staszic High School in Lublin**, *Class profiled for Mathematics, Physics and Computer Science*, Poland

1983–1991 **Romuald Traugutt Primary School No. 6 in Lublin**, Poland

Employment

Maria Curie-Sklodowska University in Lublin

1.09.2024– **Full Professor**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

14.11.2022– **Senator of MCSU**

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1.10.2019– **Head of the Department of Neuroinformatics and Biomedical Engineering**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

1.10.2015– 31.08.2024 **Associate Professor**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

1.09.2016– 30.09.2019 **Head of Department of Neuroinformatics**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

1.09.2014– 31.08.2016 **Head of Laboratory of Neuroinformatics**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

1.07.2013– 30.09.2015 **Assistant Professor with Habilitation**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

1.10.2005– 30.06.2013 **Assistant Professor**, *Faculty of Mathematics, Physics and Computer Science*, Institute of Computer Science

Polish-Japanese Academy of Information Technology

1.10.2024– **Full Professor**, *Faculty of Computer Science*

1.03.2024– **Head of postgraduate studies "Python – Programming for Artificial Intelligence"**, *Faculty of Computer Science*

1.03.2024– **Head of postgraduate studies "Security Testing of IT Systems"**, *Faculty of Computer Science*

1.07.2021– **Senator of PJAIT**

1.07.2021– **Head of the Department of Itelligent Systems and Data Science** , *Faculty of Computer Science*

1.07.2021– **Head of "Data Science" specialisation at Computer Science 2nd degree studies**, *Faculty of Computer Science*

20.10.2020– **Head of "Intelligent Data Processing Systems" specialisation at Computer Science 1st degree studies; since 2025 Intelligent Systems and Data Science**, *Faculty of Computer Science*

1.10.2018– **Head of postgraduate studies "Cybersecurity of Information and Telecommunication Systems"**, *Faculty of Computer Science*

1.10.2017– **Head of postgraduate studies "Big Data Engineering"**, *Faculty of Computer Science*

1.10.2017– 30.09.2024 **Associate Professor**, *Faculty of Computer Science*

University of Economics and Innovation in Lublin

1.10.2013– 30.09.2017 **Associate Professor**, *Faculty of Transport and Computer Science*

1.10.2012– 30.09.2013 **Assistant Professor**, *Faculty of Transport and Computer Science*

1.10.2008– 30.09.2009 **Dean's Proxy for the 1st Degree Graduate Studies in Computer Science**, *Faculty of Transport and Computer Science*

1.10.2007– 30.09.2012 **Lecturer**, *Faculty of Transport and Computer Science*

1st Stanislaw Staszic High School in Lublin

1.09.2004– 30.09.2005 **Contract Teacher**

1.09.2003– 31.08.2004 **Trainee Teacher**

Daewoo Motor Poland, Lublin

3.07.2000– 14.10.2000 **Analyst Programmer**

1.05.2000– 2.07.2000 **Application Programmer**

1.02.2000– 30.04.2000 **Referent**

Additional

2001-2004 **Computational Neuroscience Teacher**, *Youth Academy of Skills*, Ignacy Jan Paderewski Foundation for the Promotion of Alternative Forms of Education in Lublin

Projects

- 1.04.2024–31.05.2024 – UMCS Programming Academy". Contractor. Grant under the "Social Responsibility of Science" program. Ministry of Science and Higher Education (MNiSW) No.: POPUL/SP/0193/2023/01
- 1.01.2021–31.12.2023 – pREservIng fuNdamental rIghTs In the use of digitAl technoLogIes for e-health ServicEs (REINITIALISE). Scientific Board Member, Team Member. Horizon 2020, No.: 952357
- 30.06.2022–31.05.2023 – Investigations of brain cortex activity in deep state of relaxation. Investigator. Minigrants of Maria Curie-Sklodowska University, 2nd edition.
- 13.12.2021–31.05.2022 – Head of the task "Conducting neurological and psychological tests" as part of the EEGDigiTrack Biofeedback AI project implemented by UMCS - an innovative device for personalized neurotherapy with scientifically proven effectiveness RPMA0.01.02.00-14-b459/18-00
- 15.07.2021–15.07.2022 – Understanding the Brain Fog – Research on COVID-19 Post-Infectious Chronic Fatigue Syndrome. NAWA Urgency Grants. Project Coordinator. Grant No. BPN/GIN/2021/1/00019/U/00001
- 1.07.2020–15.02.2022 – Integrated system for the treatment of speech impediments – VIRTUAL SPEECH THERAPY SYSTEM – VSTS. Chief R&D Officer. No. POIR.01.01.01-00-0842/19
- 1.07.2020–31.10.2021 – EEGDigiTrack Biofeedback AI – an innovative device for personalized neurotherapy with scientifically proven effectiveness. Senior Machine Learning Researcher. No. RPMA.01.02.00-14-b459/18-00

- 14.10.2020–30.12.2020 – Head of the task "Preparation of a dedicated analysis of the feasibility of innovations regarding the support of psychological aspects of recovery and treatment that improve the quality of life" as part of the implementation of the special purpose subsidy agreement of the Lublin Municipality for the VRMed startup. Agreement No. 76/WSP/20
- 1.09.2014–30.09.2016 – Learning with ICT use (LEARN IT). Head, Principal Investigator. University of Economics and Innovation in Lublin, Poland. Foundation for the Development of the Education System. Project implemented under the "Erasmus+" Program, Ka2: cooperation for Innovation and exchange of good practices, action - Strategic Partnerships. No. 2014-1-PL01-KA200-003353
- 23.06.2010–30.04.2013 – Autism Spectrum Disorder: Integrated Theory. Investigator. Grant of Minister of Science and Higher Education (MNiSW) No. 9011/B/T02/2010/38
- 1.04.2009–31.12.2012 – Meritorical Coordinator for ICT in the project "School of Key Competences". University of Economics and Innovation in Lublin, Poland. The project financed by the European Union from the European Social Fund and the State Budget under the Human Capital Operational Program. No. UDA-POKL.03.03.04-00-133/09/01
- 6.06.2008–5.06.2010 – Investigating of the model of primate visual system in the large-scale simulation. Head, Principal Investigator. Grant of Minister of Science and Higher Education (MNiSW) No. N519 403734
- 9.03.2009–10.10.2009 – Meritorical Expert – content author of physics and mathematics in the project "Hand in Hand with Einstein. 2nd Edition". Betacom S.A. Warsaw, Poland. The project financed by the European Union from the European Social Fund. No. UDA-POKL.03.03.04-00-142/08-00
- 17.05.2007–16.05.2009 – Modelling and large-scale simulations of the mammalian visual cortex. Principal Investigator. Grant of Minister of Science and Higher Education (MNiSW) No. N519 01732/2120
- 2.01.2007–15.12.2007 – Investigating the properties of the simulated mammalian visual cortex macro-neural ensembles. Project Coordinator, Principal Investigator. Grant of Maria Curie-Sklodowska University in Lublin Vice-Rector for Science
- 15.12.2004–30.11.2005 – CLUSTERIX – National Linux Cluster. Investigator. Grant of State Committee for Scientific Research (KBN) No. 6T11 2003C/06098

Research Interships

- 26.10.2015–26.04.2016 – Independent Laboratory of Neurophysiological Research. Medical University of Lublin, Poland.
- 1.08.2005–26.08.2005 – Edinburgh Parallel Computing Centre (EPCC), Edinburgh, United Kingdom - HPC-Europa (RII3-CT-2003-506079), with the support of the European Community - Research Infrastructure Action under the FP6 Structuring the European Re- search Area Programme.
- 1.08.2005–26.08.2005 – Dept. of Computing Science and Mathematics of Stirling University, Stirling, United Kingdom - HPC-Europa (RII3-CT-2003-506079), with the support of the European Community - Research Infrastructure Action under the FP6 Structuring the European Re- search Area Programme.

Scientific Visits

- 2023 – Jordan University College [JUCo], Morogoro, Tanzania
- 2023 – Mzumbe Univerity, Mzumbe, Tanzania
- 2023 – College of Business Education [CBE], Dar es Salaam, Tanzania
- 2023 – Dar es Salaam Institute of Technology [DIT], Dar es Salaam, Tanzania
- 2022 – Department of Cognitive and Brain Sciences, Ben-Gurion University of the Negev, Beersheba, Israel
- 2016 – Fondo Formación Euskadi, Trapagaran, Spain (LEARN IT)
- 2015, 2016 – Klaipeda State University of Applied Sciences, Lithuania (LEARN IT)
- 2015 – Transport and Telecommunication Institute, Riga, Latvia (LEARN IT)
- 2009, 2012, 2013 – Bergen University College, Bergen, Norway [FSS, EEA Grants, Norway Grants, Erasmus – Life-Long Learning]
- 2006, 2009, 2010 – Dept. of Physiology, Anatomy & Genetics (DPAG), University of Oxford
- 2006, 2008 – Interdisciplinary Center for Neural Computations (ICNC), Hebrew University, Jerusalem, Israel
- 2001 – Institute for Theoretical Computer Science at Technische Universitaet Graz, Austria

Decorations

- 28.11.2025 – Medal of Merit for the City of Lublin – Merentibus Civitatis Lublini
- 5.07.2024 – Medal of the National Education Commission for Special Merits in Education and Upbringing
- 25.02.2024 – Silver Shooting Badge of Polish Shooting Sport Association, Center-fire Pistol (Pcz20), Erma ESP 85A
- 25.02.2024 – Silver Shooting Badge of Polish Shooting Sport Association, Sport Pistol (Psp20), Erma ESP 85A
- 10.12.2023 – Bronze Shooting Badge of Polish Shooting Sport Association, Center-fire Pistol (Pcz20), Erma ESP 85A
- 30.07.2023 – Bronze Shooting Badge of Polish Shooting Sport Association, Sport Pistol (Psp20), Erma ESP 85A
- 23.03.2023 – Gold Shooting Badge of Polish Shooting Sport Association, Air Pistol (Ppn20), FWB 65

Awards

- 2025 – 4th Class Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding scientific achievements
- 2025 – Homo Didacticus – for outstanding teaching work in the winter semester 2024/25 (UMCS)
- 2025 – Jubilee Award for 25 years of professional work

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- 2023 – 3rd Class Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding service for the University
- 2023 – Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding scientific work
- 2023 – Homo Didacticus – for outstanding teaching work in the winter semester 2022/23 (UMCS)
- 2021 – 4th Class Team Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding service for the University
- 2021 – Team Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding scientific work
- 2020 – 3 × Team Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding scientific work
- 2020 – Jubilee Award for 20 years of professional work
- 2018 – 2nd Class Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding service for the University
- 2014 – 3rd Class Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding service for the University
- 2013 – Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for Habilitation
- 2012 – 3rd Class Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding service for the University
- 2011 – 3rd Class Individual Award of Rector of Maria Curie-Sklodowska University in Lublin for outstanding service for the University in academic year 2010/2011

Membership

- Since 8.08.2023 – Member of OT73 – Virtual Field Division of Polish Amateur Radio Union
- Since 21.10.2022 – Member of Yacht Club UMCS, Lublin District Yachting Association, Polish Yachting Association
- Since 7.06.2019 – Member of SNAJPER Lublin Shooting Club, Lublin Shooting Sport Association, Polish Shooting Sport Association
- 2016-2020 – Rector's Representative in the Council of Academic Centre of Culture "Chatka Żaka" in Lublin, Poland
- 2016-2020 – Supervisory Council Member of Centre of Transfer of Knowledge and Technology at Maria Curie-Sklodowska University in Lublin, Poland
- Since 2015 – Editorial Board Member of Bio-Algorithms and Med-Systems
- Since 2015 – Program Council of High Field Magnetic Resonance Laboratory at the ECOTECH-COMPLEX Centre in Lublin, Poland
- Since 2015 – Vice-Chairman of the Comission of Fundamentals and Applications in Chemistry, Physics and Technology, Agriculture and Medicine. Polish Academy of Sciences, Filiale in Lublin, Poland. Chairman of Section of Physics. Member since 2009
- Since 1.03.2009 – Member of National Geographic Society

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- 2009-2010 – Chapter Member (area: Science) in the Competition "Promotion of the Achievements of Polish Science". Foundation OIC Poland, Lublin
- Since 8.12.2005 – Member of Polish Numismatic Society. Since 2015 Board Member of Lublin Branch

Courses

- 25 – 29.07.2022 – Intensive sailing course, Wind Hunter, Gdansk, Poland
- 16 – 17.12.2017 – Introduction to Project Management, Altkom Akademia, Lublin, Poland
- 12.02.2006 – 28.02.2006 – Changing your Mind about the Brain, workshop at Interdisciplinary Center for Neural Computations (ICNC), Hebrew University, Jerusalem, Israel
- 19.08.2002 – 13.09.2002 – EU Advanced Course In Computational Neuroscience. An IBRO Neuroscience School, Obidos, Portugal
- 1999 – Novell NetWare 4.11 Administartion Course (NW520)

Licenses & Certificates

- 2022 – Patent of Inland Skipper (No. PU/54986)
- 2022 – 1st Class Certificate of Ameteur Radio Operator (No. A-29915). Call Sign: SQ8GMW (DC.WML.5101.1697.2022.2)
- 2021 – Fundamental Neuroscience for Neuroimaging. Coursera. Johns Hopkins University.(coursera.org/verify/KK83ZTXAUM6M)
- 2019 – Shooting Patent: pistol, rifle, shotgun. (No. 61325/PAT/11/2019)
- 2019 – Shooting Sport License: pistol, rifle, shotgun (No. L69023)
- 2015 – Introduction to Programming with MATLAB (with distinction). Coursera. Vanderbilt University.
- 2002 – Cambridge Certificate in Advanced English (CAE), No. 8585438
- 1999 – Certified Novell Administrator (CNA) – intraNetWare, No. 9695185
- 1997 – Cambridge First Certificate in English (FCE), No. 976PL0100060
- 1994 – Driving Licence B-category

Foreign languages

English	Full professional proficiency
Russian	Basic proficiency
Polish	Native

Interests

Numismatics	Swiss shooting thalers and shooting medals
Target shooting	Pistol, rifle, shotgun
Ham radio	SQ8GMW. Yaesu FT-950 + EFHW, Yaesu FT-65

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Publications

K. Chlasta, P. Struzik, and G. M. Wójcik, "Enhancing dementia and cognitive decline detection with large language models and speech representation learning," *Frontiers in Neuroinformatics*, vol. 19, p. 1679664, 2025.

F. Postepski, G. M. Wojcik, K. Wrobel, A. Kawiak, K. Zemla, and G. Sedek, "Recurrent and convolutional neural networks in classification of eeg signal for guided imagery and mental workload detection," *Scientific Reports*, vol. 15, no. 1, p. 10521, 2025.

M. Grzeszczuk, K. Skorupska, and G. M. Wójcik, "Bridging the digital divide: approach to documenting early computing artifacts using established standards for cross-collection knowledge integration ontology," in *Machine Intelligence and Digital Interaction Conference*, pp. 273–280, Springer, 2024.

B. Karpowicz, M. Grzeszczuk, A. Kuzdraliński, M. Kornacka, A. Marozau, W. Stawski, P. Zinevych, G. M. Wójcik, T. Kowalewski, G. Pochwatko, *et al.*, "Immersive technologies in training and healthcare: From space missions to psychophysiological research," in *Machine Intelligence and Digital Interaction Conference*, pp. 339–346, Springer, 2024.

B. Karpowicz, T. Kowalewski, P. Zinevych, A. Kuzdraliński, G. M. Wójcik, and W. Kopeć, "Towards effective human performance in xr space framework based on real-time eye tracking biofeedback," in *Machine Intelligence and Digital Interaction Conference*, pp. 289–296, Springer, 2024.

F. Postępski, B. Vanrumste, and G. M. Wójcik, *Selected Topics in Applied Computer Science, Jarosław Bylina and Aneta Wróblewska ed.*, vol. 3, ch. Application of Convolutional Neural Networks to Classification of Introversion and Extraverison Biomarkers in Dense-Array EEG Signal, pp. 85–92. Maria Curie-Skłodowska University Press, 2024.

P. Schneider, B. Vanrumste, and G. M. Wójcik, *Selected Topics in Applied Computer Science, Jarosław Bylina and Aneta Wróblewska ed.*, vol. 3, ch. Logistic Regression Model for the Credibility Evaluation Dense-Array EEG Signal Classification, pp. 77–84. Maria Curie-Skłodowska University Press, 2024.

A. Gajos-Balińska, B. Vanrumste, and G. M. Wójcik, *Selected Topics in Applied Computer Science, Jarosław Bylina and Aneta Wróblewska ed.*, vol. 3, ch. Application of Temporal Convolutional Networks for Precise Detection of Artifacts in the EEG Signal Based on ICA Components, pp. 65–75. Maria Curie-Skłodowska University Press, 2024.

A. Daniluk, B. Daniluk, and G. M. Wójcik, "A python code for simulations of rheed intensity oscillations within the one-dimensional dynamical approximation," *Computer Physics Communications*, p. 109467, 2024.

A. Gajos-Balińska, G. M. Wójcik, and P. Stpiczyński, "Hybrid implementation of the fastica algorithm for high-density eeg using the capabilities of the intel architecture and cuda programming," *Computer Science*, vol. 24, no. 4, p. 455–472, 2023.

A. Kawala-Sterniuk, G. M. Wójcik, and W. Bauer, "Biomedical data in human–machine interaction," *Sensors*, vol. 23, no. 18, p. 7983, 2023.

K. Zemla, G. Sedek, K. Wróbel, F. Postepski, and G. M. Wojcik, "Investigating the impact of guided imagery on stress, brain functions, and attention: A randomized trial," *Sensors*, vol. 23, no. 16, p. 6210, 2023.

K. Zemla, G. M. Wojcik, F. Postepski, K. Wróbel, A. Kawiak, and G. Sedek, "Modeling of brain cortical activity during relaxation and mental workload tasks based on eeg signal collection," *Applied Sciences*, vol. 13, no. 7, p. 4472, 2023.

K. Chlasta, P. Sochaczewski, G. M. Wójcik, and I. Krejtz, "Neural simulation pipeline: Enabling container-based simulations on-premise and in public clouds," *Frontiers in Neuroinformatics*, 2023.

G. M. Wojcik, O. Shriki, L. Kwasniewicz, A. Kawiak, Y. Ben-Horin, S. Furman, K. Wróbel, B. Bartosik, and E. Panas, "Investigating brain cortical activity in patients with post-covid-19 brain fog," *Frontiers in Neuroscience*, vol. 17, 2023.

K. Zemła, G. M. Wójcik, F. Postępski, Łukasz Kwaśniewicz, and A. Kawiak, *Selected Topics in Applied Computer Science, Jarosław Bylina, ed.*, vol. 2, ch. Investigating the Influence of Guided Imagery Relaxation on the Selected Electrophysiological Parameters of Human Body, pp. 21–37. Maria Curie-Skłodowska University Press, 2023.

E. Mikołajewska, P. Prokopowicz, Y. Chow, J. Masiak, D. Mikołajewski, G. M. Wójcik, B. Wallace, A. R. Eugene, and M. Olajossy, "From neuroimaging to computational modeling of burnout: The traditional versus the fuzzy approach—a review," *Applied Sciences*, vol. 12, no. 22, p. 11524, 2022.

A. Kawala-Sterniuk, M. Pelc, R. Martinek, and G. M. Wójcik, "Currents in biomedical signals processing—methods and applications," *Frontiers in Neuroscience*, vol. 16, 2022.

P. Schneider, G. M. Wójcik, A. Kawiak, L. Kwasniewicz, and A. Wierzbicki, "Modeling and comparing brain processes in message and earned source credibility evaluation," *Frontiers in Human Neuroscience*, vol. 16, 2022.

B. Bartosik and G. M. Wójcik, *Selected Topics in Applied Computer Science, Jarosław Bylina, ed.*, vol. 1, ch. Assessment of Attractiveness and Trust in Relation to Personality Traits — Literature Review and Research Proposal, pp. 223–232. Maria Curie-Skłodowska University Press, 2021.

K. Chlasta and G. M. Wójcik, *Selected Topics in Applied Computer Science, Jarosław Bylina, ed.*, vol. 1, ch. Liquid state machines for real-time neural simulations, pp. 233–246. Maria Curie-Skłodowska University Press, 2021.

A. Kobus, I. Codello, W. Kuniszyk-Jóźkowiak, and G. M. Wójcik, *Selected Topics in Applied Computer Science, Jarosław Bylina, ed.*, vol. 1, ch. Automatic Syllable Repetition Detection Methods in Continuous Speech, pp. 43–58. Maria Curie-Skłodowska University Press, 2021.

D. Mikołajewski, J. Masiak, E. Mikołajewska, and G. M. Wójcik, "Modelowanie obliczeniowe występowania objawów wypalenia zawodowego u informatyków i fizjoterapeutów - wyniki wstępne," *Studia i Materiały Informatyki Stosowanej*, vol. 13, no. 3, pp. 29–35, 2021.

D. Mikołajewski, J. Masiak, E. Mikołajewska, and G. M. Wójcik, "Objawy wypalenia zawodowego jako podstawa modelu obliczeniowego," *Studia i Materiały Informatyki Stosowanej*, vol. 13, no. 3, pp. 22–28, 2021.

D. Mikołajewski, J. Masiak, E. Mikołajewska, G. M. Wójcik, and J. Kopowski, "Związane z pracą niekorzystne zmiany zdrowotne w grupie zawodowej informatyków – narracyjny przegląd literatury," *Studia i Materiały Informatyki Stosowanej*, vol. 13, no. 3, pp. 13–21, 2021.

L. Kwasniewicz, G. M. Wojcik, P. Schneider, A. Kawiak, and A. Wierzbicki, "What to believe? impact of knowledge and message length on neural activity in message credibility evaluation," *Frontiers in Human Neuroscience*, vol. 15, p. 659243, 2021.

B. Bartosik, G. M. Wojcik, A. Brzezicka, and A. Kawiak, "Are you able to trust me? analysis of the relationships between personality traits and the assessment of attractiveness and trust," *Frontiers in Human Neuroscience*, p. 389, 2021.

A. Kawiak, G. M. Wojcik, P. Schneider, L. Kwasniewicz, and A. Wierzbicki, "Whom to believe? understanding and modeling brain activity in source credibility evaluation," *Frontiers in neuroinformatics*, vol. 14, p. 607853, 2020.

G. M. Wójcik, A. Kobus, J. Rogala, and U. Malinowska, "Influence of artefact removal on machine learning classification results in memory task eeg signal processing," *Bio-Algorithms and Med-Systems*, vol. 17, no. 2, p. eA30, 2021.

K. Chlasta, G. M. Wójcik, and K. Wołk, "Liquid state machines in parallel simulations of mammalian visual system on raspberry pi.," *Bio-Algorithms and Med-Systems*, vol. 17, no. 2, p. aA36, 2021.

A. Krajka, I. Panasiuk, A. Misiura, and G. M. Wójcik, "On the mutation model used in the fingerprinting dna," *Bio-Algorithms and Med-Systems*, vol. 16, no. 4, 2020.

T. Krajka, A. Misiura, and G. M. Wojcik, "Simulation of the south-eastern polish subpopulations behaviour," in *2020 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)*, pp. 1–8, IEEE, 2020.

P. Schneider, G. M. Wojcik, A. Kawiak, L. Kwasniewicz, and A. Wierzbicki, "True or false: How does our brain decide about truth?," in *2020 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)*, pp. 1–9, IEEE, 2020.

A. Gajos-Balińska, G. M. Wójcik, and P. Stpiczyński, "Cooperation of cuda and intel multi-core architecture in the independent component analysis algorithm for eeg data," *Bio-Algorithms and Med-Systems*, vol. 16, no. 3, 2020.

A. Kawiak, G. M. Wójcik, L. Kwasniewicz, P. Schneider, and A. Wierzbicki, "Look who's talking: Modeling decision making based on source credibility," in *International Conference on Computational Science*, pp. 327–341, Springer, 2020.

Ł. Kwaśniewicz, G. M. Wójcik, A. Kawiak, P. Schneider, and A. Wierzbicki, "How you say or what you say? neural activity in message credibility evaluation," in *International Conference on Computational Science*, pp. 312–326, Springer, 2020.

G. M. Wojcik, *Simulations in Medicine, Irena Roterman-Konieczna, ed.*, ch. 3 Selected methods of quantitative analysis in electroencephalography, pp. 35–54. de Gruyter, 2020.

G. M. Wójcik, J. Masiak, A. T. Kawiak, L. K. Kwasniewicz, P. Schneider, F. Postepski, and A. Gajos-Balinska, "Analysis of decision-making process using methods of quantitative electroencephalography and machine learning tools," *Frontiers in Neuroinformatics*, vol. 13, p. 73, 2019.

G. M. Wójcik, A. Kawiak, L. Kwasniewicz, P. Schneider, and J. Masiak, "Azure machine learning tools efficiency in the electroencephalographic signal p300 standard and target responses classification," *Bio-Algorithms and Med-Systems*, vol. 15, no. 3, 2019.

W. K. Ozga, D. Zapała, P. Wierzgała, P. Augustynowicz, R. Porzak, and G. M. Wójcik, "Acoustic neurofeedback increases beta erd during mental rotation task," *Applied Psychophysiology and Biofeedback*, pp. 1–13, 2018.

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