

CV Dariusz Mrozek

Name of researcher	Dariusz Mrozek (ORCID 0000-0001-6764-6656)
Phone, fax, e-mail	[REDACTED]
Place of employment / Position	Silesian University of Technology, Department of Applied Informatics / associate professor
Qualification level	<p>2017 – DSc, in Institute of Informatics, Silesian University of Technology, Gliwice, Poland, informatics</p> <p>2006 – PhD, in Institute of Informatics, Silesian University of Technology, Gliwice, Poland, informatics</p>
Professional experience and achievements	<p>Employment:</p> <p>2019 - now Professor at the Silesian University of Technology, Gliwice, Poland</p> <p>2019 - now Head of Departement of Applied Informatics at the Silesian University of Technology, Gliwice, Poland</p> <p>2019 - now Vice president of the Information and communication technology scientific discipline</p> <p>2017 - 2019 Associate Professor in Institute of Informatics, Silesian University of Technology, Gliwice, Poland</p> <p>2006 – 2017 Assistant Professor in Institute of Informatics, Silesian University of Technology, Gliwice, Poland</p> <p>Achievements:</p> <p>1. <i>Project manager: Data Science – Boosting performance of 3D protein structure predictions in the Azure Cloud.</i> Microsoft Research, USA, 2016-2017</p> <p>2. <i>Project manager: Cloud4Psi – Cloud computing in the service of 3D protein structure similarity searching,</i> Microsoft Research, USA, 2014-2015 – project manager</p> <p>3. <i>Principal investigator: Co-funded by Polish National Centre for Research and Development (NCBR) within Applied Research Programme (PBS) project entitled: Platform for remote testing of scientific hypotheses and biomedical data analysis (BioTest), DZP/PBS3/ 2441/2014/, realized in partnership with Centre of Oncology in Gliwice, Poland, and WASKO S.A. commercial company in years 2015-2017, function: data architect manager/principal investigator, 2015-2017</i></p> <p>4. <i>Principal investigator: Co-funded from European Regional Development Fund (EFRR) within Innovative Economy Programme (POIG) project entitled: Development of methods, technologies for a system supporting management</i></p>

of network of the healthcare units in the scope of interoperability, functional extensibility and scalable deployment process (NTHS), INNOTECH-K3/IN3/46/229379/NCBR/14, realized in partnership with Asseco Poland S.A., in years 2014-2016, function: data integration analyst/principal investigator, 2014-2016

5. Principal investigator: Co-funded by Polish National Centre for Research and Development (NCBR) project entitled: Integrated system supporting research on environment related cancers (SYSCANCER), POIG.02.03.01-00-040/13, in years 2013-2015, function: data architect/principal investigator, 2013-2015

Publications – journals indexed by Journal Citation Reports

1. B. Małysiak-Mrozek, M. Stabla, D. Mrozek: Soft and declarative fishing of information in big data lake. IEEE Transactions on Fuzzy Systems 26 (5), pp. 2732-2747, 2018, IF = 8.759

2. Małysiak-Mrozek, B., Lipinska, A., Mrozek, D.: Fuzzy Join for Flexible Combining Big Data Lakes in Cyber-Physical Systems. IEEE Access, 6, art. no. 8525267, pp. 69545-69558, (2018). IF = 4.098

3. Mrozek, D., Daniłowicz, P., Małysiak-Mrozek, B.: HDInsight4PSi: Boosting performance of 3D protein structure similarity searching with HDInsight clusters in Microsoft Azure cloud. Information Sciences, 349-350, pp. 77-101 (2016). IF = 5.524

4. Mrozek, D., Kasprowski, P., Małysiak-Mrozek, B., Kozielski, S.: Life Sciences Data Analysis. (2017) Information Sciences, 384, pp. 86-89. IF = 5.524

5. Mrozek, D.: Scalable Big Data Analytics for Protein Bioinformatics. (monograph) Computational Biology, vol. 28, Springer, Cham, 2018.

6. Małysiak-Mrozek, B., Baron, T., Mrozek, D.: Spark-IDPP: high-throughput and scalable prediction of intrinsically disordered protein regions with Spark clusters on the Cloud. (2019) Cluster Computing, 22 (2), pp. 487-508. IF = 1.851



7. Mrozek, D., Socha, B., Kozielski, S., Małysiak-Mrozek, B.: An efficient and flexible scanning of databases of protein secondary structures: with the segment index and multithreaded alignment. (2016) Journal of Intelligent Information Systems, 46 (1), pp. 213-233, 2016. IF = 1.589

8. Mrozek, D., Gosk, P., Małysiak-Mrozek, B.: Scaling Ab Initio Predictions of 3D Protein Structures in Microsoft Azure Cloud. (2015) Journal of Grid Computing, 13 (4), pp. 561-585. IF = 3.288

	<p>9. Mrozek, D., Brozek, M., Małysiak-Mrozek, B.: Parallel implementation of 3D protein structure similarity searches using a GPU and the CUDA. (2014) <i>Journal of Molecular Modeling</i>, 20 (2), 2014. IF = 1.335</p> <p>10. Mrozek, D., Małysiak-Mrozek, B., Kłapciński, A.K.: Cloud4Psi: Cloud computing for 3D protein structure similarity searching (2014) <i>Bioinformatics</i>, 30 (19), pp. 2822-2825. IF = 4.531</p> <p>11. D. Mrozek, K. Tokarz, D. Pankowski, B. Małysiak-Mrozek: A Hopping Umbrella for Fuzzy Joining Data Streams from IoT Devices in the Cloud and on the Edge. <i>IEEE Transactions on Fuzzy Systems</i> (in press), 2019, DOI: 10.1109/TFUZZ.2019.2955056, IF = 8.759</p>
--	--

Statement:

I accept the conditions of participation in the project implementation and I hereby consent to the processing of my personal data in accordance with the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 (General Data Protection Regulation) and the Act of 10 May 2018 on personal data protection (Journal of Laws of 2018, item 1000) for the purpose of assessment and selection of the project proposal, conclusion of the project contract and supervision of the project implementation, its acceptance, evaluation and financial settlement, and I have familiarized myself with the content of the Information clause¹.

 <i>Place and date</i>	 <hr style="border-top: 1px dashed black;"/> <i>Signature</i>
--	--

¹ Information clause