

## RAMIZ ALIGULIYEV

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### ACADEMIC QUALIFICATIONS

- **BSc/MSc:** Applied Mathematics, Azerbaijan State University (now Baku State University), Baku, Azerbaijan, 1983.
- **PhD:** Mathematics (Differential Equation), Institute of Mathematics and Mechanics of Azerbaijan National Academy of Sciences (ANAS), Baku, Azerbaijan, 2002.
- **DSc:** Information Technology (System Analysis, Control and Information Processing), Institute of Cybernetics (now Institute of Control Systems) of ANAS, Baku, Azerbaijan, 2010.

### RECOGNITION/AWARDS

- In **2020-2023** Ramiz Aliguliyev has been recognized among the world's top **2% scientists** in the field of **artificial intelligence** identified by **Stanford University**.
- In **2017** he was elected corresponding member of ANAS in Informatics.
- In **2014** he was awarded with "**Taraggi**" medal by the order of the President of the Republic of Azerbaijan.
- In **2013** under the framework of the "ICT year" in the "3rd ICT Contest Competition" held by the Science Development Foundation under the President of the Republic of Azerbaijan jointly with the Ministry of Communications and Information Technologies, his article was awarded the **1st** place for the best scientific work published in ICT field.

### PROFESSIONAL QUALIFICATIONS

- From **1983** to **1987** he worked as an engineer at the Institute of Cybernetics (now Institute of Control Systems) of Azerbaijan Academy of Sciences (AAS), Baku, Azerbaijan.
- From **1988** to **2002** he worked as a leading engineer and a researcher at the Institute of Mathematics and Mechanics of AAS, Baku, Azerbaijan.

- Since **2003** he is a head of department at the Institute of Information Technology of ANAS, Baku, Azerbaijan.
- Since **2023** he is a director of the Institute of Cybersecurity and Artificial Intelligence at Azerbaijan Technical University, Baku, Azerbaijan
- He has supervised **3** PhDs and **5** Masters, currently supervising **10** PhD students.

## RESEARCH INTERESTS

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- Data Mining
- Big Data Analytics
- Text Summarization
- Artificial Intelligence
- Social Network Analysis
- E-government Analysis
- Scientometrics
- Evolutionary and Swarm Intelligence Algorithms

## EDITORIAL, REVIEW and EXPERTISE ACTIVITY

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- **Editorial Board Member of the journals:**
  - ✓ Problems of Information Technology
  - ✓ CAAI Transactions on Intelligence Technology
  - ✓ TWMS Journal of Pure and Applied Mathematics
  - ✓ International Journal of Decision Support System Technology
  - ✓ Problems of Information Society
  - ✓ Informatics and Control Problems
  - ✓ International Journal of Sensors, Wireless Communications and Control
  - ✓ Turkish Journal of Mathematics & Computer Science
  - ✓ Communications
  - ✓ Artificial Intelligence Evolution
  - ✓ Ukrainian Journal of Information Systems and Data Science
- He is a reviewer a lot of journals and conferences.
- He has been a member of the program/organizing committees of more than 30 international and local conferences.
- He is a member of the dissertation council at the Institute of Information Technology.
- He is a member of the Problem Council on Physical, Mathematical and Technical Sciences of the Scientific Research Coordination Council of the Republic of Azerbaijan.

## ACADEMIC NETWORKING

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- **Google Scholar:**  
[https://scholar.google.com/citations?hl=en&user=cV0HqdgAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=cV0HqdgAAAAJ&view_op=list_works&sortby=pubdate)
- **Scopus:**  
<https://www.scopus.com/authid/detail.uri?authorId=35561067300>
- **ORCID:**  
<https://orcid.org/0000-0001-9795-1694>
- **Web of Science (ResearcherID: A-1072-2013):**  
<https://www.webofscience.com/wos/author/record/1189983>
- **ResearchGate:**  
<https://www.researchgate.net/profile/Ramiz-Aliguliyev>

## SELECTED PUBLICATIONS

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- R.Alguliyev, **Ramiz Aliguliyev**, & L.Sukhostat, "An approach for assessing the functional vulnerabilities criticality of CPS components", **Cyber Security and Applications**, vol.3, 100058, 2025. <https://doi.org/10.1016/j.csa.2024.100058> (WoS)
- R.Alguliyev, **Ramiz Aliguliyev**, & L.Sukhostat, "Radon transform based malware classification in cyber-physical system using deep learning", **Results in Control and Optimization**, vol.14, 100382, 2024. <https://doi.org/10.1016/j.rico.2024.100382> (WoS)
- A.Bagirov, **Ramiz Aliguliyev**, & N.Sultanova, "Finding compact and well-separated clusters: Clustering using silhouette coefficients", **Pattern Recognition**, vol.135, 109144, 2023. <https://doi.org/10.1016/j.patcog.2022.109144> (WoS)
- R.Alguliyev, **Ramiz Aliguliyev**, & R.Alakbarov, "Constrained k-means algorithm for resource allocation in mobile cloudlets", **Kybernetika**, vol.59, no.1, pp.88-109, 2023. <https://doi.org/10.1016/10.14736/kyb-2023-1-0088> (WoS)
- R.Alguliyev, **Ramiz Aliguliyev**, Y.Imamverdiyev, & L.Sukhostat, "History matching of petroleum reservoirs using deep neural networks", **Intelligent Systems with Applications**, vol.16, 200128, 2022. <https://doi.org/10.1016/j.iswa.2022.200128> (WoS)
- **Ramiz Aliguliyev** & N.Adigozalova, "h-type indices for multiple authorship papers based on "relative first author" principle", **COLNET Journal of Scientometrics and Information Management**, vol.16, no.2, pp.305-330, 2022. <https://doi.org/10.1080/09737766.2022.2098875> (WoS)
- R.Alguliyev, **Ramiz Aliguliyev**, & L.Sukhostat, "Parallel batch k-means for Big data clustering", **Computers & Industrial Engineering**, vol.152, 107023, 2021. <https://doi.org/10.1016/j.cie.2020.107023> (WoS)

- R.Algulyev, Y.Imamverdiyev, R.Mahmudov, & **Ramiz Aligulyev**, "Information security as a national security component", **Information Security Journal**, vol.30, no.1, pp.1-18, 2021. <https://doi.org/10.1016/10.1080/19393555.2020.1795323> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & L.Sukhostat, "Weighted consensus clustering and its application to big data", **Expert Systems with Applications**, vol.150, 113294, 2020. <https://doi.org/10.1016/j.eswa.2020.113294> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & L.Sukhostat, "Efficient algorithm for big data clustering on single machine", **CAAI Transactions on Intelligence Technology**, vol.5, no.1, pp.9-14, 2020. <https://doi.org/10.1049/trit.2019.0048> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & F.Yusifov, "Modified fuzzy TOPSIS+TFNs ranking model for candidate selection using the qualifying criteria", **Soft Computing**, vol.24, no.1, pp.681-695, 2020. <https://doi.org/10.1007/s00500-019-04521-2> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & F.Abdullayeva, "Multidisciplinary study of the problems of big data technologies in the oil and gas industry", **International Journal of Oil Gas and Coal Technology**, vol.23, no.1, pp.92-105, 2020. <https://doi.org/10.1504/IJOGCT.2020.104975> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & F.Abdullayeva, "Privacy-preserving deep learning algorithm for big personal data analysis", **Journal of Industrial Information Integration**, vol.15, pp.1-14, 2019. <https://doi.org/10.1016/j.jii.2019.07.002> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, N.Isazade, A.Abdi, & N.Idris, "COSUM: text summarization based on clustering and optimization", **Expert Systems**, vol.36, no.1, e12340, 2019. <https://doi.org/10.1111/exsy.12340> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & G.Niftaliyeva, "A method for social network extraction from e-government", **International Journal of Information Systems in the Service Sector**, vol.11, no.3, pp.37-55, 2019. <https://doi.org/10.4018/IJISSS.2019070103> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & F.Abdullayeva, "The Improved LSTM and CNN models for DDoS attacks prediction in social media", **International Journal of Cyber Warfare and Terrorism**, vol.9, no.1, pp.1-18, 2019. <https://doi.org/10.4018/IJCWT.2019010101> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & F.Yusifov, "MCDM for candidate selection in e-voting", **International Journal of Public Administration in the Digital Age**, vol.6, no.2, pp.35-48, 2019. <https://doi.org/10.4018/IJPADA.2019040103> (WoS)
- A.Abdi, S.Shamsuddin, & **Ramiz Aligulyev**, "QMOS: query-based multi-documents opinion-oriented summarization", **Information Processing & Management**, vol.54, no.2, pp.318-338, 2018. <https://doi.org/10.1016/j.ipm.2017.12.002> (WoS)
- R.Algulyev, **Ramiz Aligulyev**, & G.Niftaliyeva, "Filtration of terrorism-related texts in the e-government environment", **International Journal of Cyber Warfare and Terrorism**, vol.8, no.4, pp.35-48, 2018. <https://doi.org/10.4018/IJCWT.2018100103> (WoS)
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- R.Alguliev, **Ramiz Aliguliyev**, T.Fataliyev, & R.Hasanova, "Weighted consensus index for assessment of the scientific performance of researchers", **COLLNET Journal of Scientometrics and Information Management**, vol.8, no.2, 2014. <https://doi.org/10.1080/09737766.2014.954864> (WoS)
- R.Alguliev, **Ramiz Aliguliyev**, & N.Isazade, "Multiple documents summarization based on evolutionary optimization algorithm", **Expert Systems with Applications**, vol.40, no.5, pp.1675-1689, 2013. <https://doi.org/10.1016/j.eswa.2012.09.014> (WoS)
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- R.Alguliev, **Ramiz Aliguliyev**, & N.Isazade, "DESAMC+DocSum: differential evolution with self-adaptive mutation and crossover parameters for multi-document summarization", **Knowledge-Based Systems**, vol.36, pp.21-38, 2012. <https://doi.org/10.1016/j.knosys.2012.05.017> (WoS)
- R.Alguliev, **Ramiz Aliguliyev**, & M.Hajirahimova, "GenDocSum+MCLR: Generic document summarization based on maximum coverage and less redundancy", **Expert Systems with Applications**, vol.39, no.16, pp.12460-12473, 2012. <https://doi.org/10.1016/j.eswa.2012.04.067> (WoS)
- R.Alguliev, **Ramiz Aliguliyev**, M.Hajirahimova, & C.Mehdiyev, "MCMR: Maximum coverage and minimum redundant text summarization model", **Expert Systems with Applications**, vol.38, no.12, pp. 14514-14522, 2011. <https://doi.org/10.1016/j.eswa.2011.05.033> (WoS)
- R.Alguliev, **Ramiz Aliguliyev**, & F.Ganjaliyev, "Investigation the role of similarity measure and ranking algorithm in mining social network", **Journal of Information Science**, vol.37, no.3, pp. 229-234, 2011. <https://doi.org/10.1177/01655515114009> (WoS)
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- R.Alguliyev & **Ramiz Aliguliyev**, “Experimental investigating the F-measure as similarity measure for automatic text summarization”, **Applied and Computational Mathematics**, vol.6, no.2, pp.278-287, 2007. <http://www.acmij.az/view.php?lang=az&menu=journal&id=257> (WoS)

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## GRANTS

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- **6** grants supported by Azerbaijan Science Foundation under the President of the Republic of Azerbaijan
- and
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