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Education

BS/MS - Control Systems, Azerbaijan State Oil Academy, 1992

Ph.D. - Control Systems, Artificial Intelligence, Azerbaijan State Oil Academy, 1992

Doctor of Sciences - Control Systems, Soft Computing, Tashkent State Technical University, 2000

Academic Positions

Assistant Professor - 1993-1995, Azerbaijan State Oil Academy

Associate Professor - 1995-2002, Azerbaijan State Oil Academy

Visiting Associate Professor - 2002-2008, Eastern Mediterranean University

Associate Professor - 2008-2014, Eastern Mediterranean University

Professor - 2014-present, Eastern Mediterranean University

Supervision of Ph.D. Theses

1. Mustafa Tanel Babagil: "The development of multi-agent intelligent system for production SCM". Eastern Mediterranean University, October, 2007.

2. Akif Vali Alizadeh: "Models and Algorithms for Behavior Planning of Industrial Robots". Institute of Cybernetics of National Academy of Science of Azerbaijan, November 30, 2007 (supervision together with Prof. Dr. R.A.Aliev).

3. Ersin Kuset Bodur: "Fuzzy Utility Based Decision Analysis in the Credit Scoring Problem". Eastern Mediterranean University, June, 2012.

4. Derar Atallah Talal Mraiziq: "Computation and Reasoning with Z-Numbers". Eastern Mediterranean University, July, 2015.

5. Sara Salehi: "Fuzzy Rule-Based Intelligent System for Predicting Hotel Occupancy". Eastern Mediterranean University, January, 2020.

6. Hasan Temizkan: "Decision Making under Fuzzy Environment". Eastern Mediterranean University, February, 2021.

7. Mustafa Özdeşer: “Fuzzy Group Decision Making on Investment Problem”. Eastern Mediterranean University, December, 2025.

Supervision of MS Theses

1. Hamid Mir-Mohammad Sadeghi: “Fuzzy Intelligent Traffic Control System”. Eastern Mediterranean University, June, 2010.

2. Andrew Adewale Alola: “Analysis of Possibility Theory for Reasoning under Uncertainty”. Eastern Mediterranean University, June, 2012.

3. Lina Abed Al-Hakim Hamdan Al Shnaikat: “Type-2 Fuzzy Logic in Modeling Uncertainty”. Eastern Mediterranean University, June, 2013.

4. Maysaa Jasim Mahmood Al-Obaidi: “Fuzzy Game Theory for Decision Analysis”. Eastern Mediterranean University, July, 2013.

5. Nisreen Lukman Abdulnabi: “Prospect Theory in Decision Making Process”. Eastern Mediterranean University, February, 2014.

6. Hayder Mosa Merza Al-Rubaiy: “Query Processing for Data Retrieval from Distributed Database Management System”. Eastern Mediterranean University, February, 2014.

7. Hello Ali Hama: “Hebb Rule Method in Neural Network for Pattern Association”. Eastern Mediterranean University, May, 2014.

8. Sara Salehi: “Bayesian Probability Estimation for Reasoning Process”. Eastern Mediterranean University, May, 2014.

9. Pshtiwan Qader Rashid: “Semantic Network and Frame Knowledge Representation Formalisms in Artificial Intelligence”. Eastern Mediterranean University, February, 2015.

10. Isma`il Muhammad Musa: “Investigation of Basic Concepts of Fuzzy Arithmetic”. Eastern Mediterranean University, February, 2015.

11. Bareen Haval Sadiq Mzori: “Forward and backward chaining techniques of reasoning in rule-based systems”. Eastern Mediterranean University, July, 2015.

12. Zewar Fadhlulddin Hasan: “Implementation of strategies for solving constraint satisfaction problems”. Eastern Mediterranean University, July, 2015.

13. Haifaa Hussein Hameed: “Smoothing techniques for time series forecasting”. Eastern Mediterranean University, July, 2015.

14. Bafreen Najeb Mohammed: “Analysis of properties of fuzzy graphs”. Eastern Mediterranean University, January, 2017.

15. Kurdman Abdulrahman Rasol: “Propositional Logic for Knowledge Representation and Formalization of Reasoning”. Eastern Mediterranean University, June, 2017.

16. Khaled A. O. Algasi: "Uninformed and Informed Search Techniques in Artificial Intelligence". Eastern Mediterranean University, November, 2017.

List of Publications

Books

1. R.A.Aliev, A.C.Khanukaev, R.R.Aliev, "Dream, brought through centuries: Myths and reality of artificial intelligence", p. 168, Elm, Baku, 1991 (in Russian).

2. R.A.Aliev, G.A.Mamedova, R.R.Aliev, "Fuzzy set theory and its application", p. 224, Tabriz University Press, Iran, 1993.

3. R.A.Aliev, R.M.Vahidov, R.R.Aliev, "Artificial neural networks: Theory and practice", p. 193, Tabriz University Press, Iran, 1995.

4. R.A.Aliev, R.R.Aliev, "Soft Computing. Part 1: Fuzzy sets and systems", p. 181, Azerbaijan State Oil Academy Press, Baku, 1996 (in Russian).

5. R.A.Aliev, R.R.Aliev, "Soft Computing. Part 2: Artificial neural networks, genetic algorithms, chaos theory", p. 144, Azerbaijan State Oil Academy Press, Baku, 1997 (in Russian).

6. R.A.Aliev, R.R.Aliev, "Soft Computing. Part 3: Hybrid intelligent systems", p. 344, Azerbaijan State Oil Academy Press, Baku, 1997 (in Russian).

7. R.A.Aliev, R.M.Vahidov, R.R.Aliev, "Neural Networks", p. 200, Azerbaijan State Oil Academy Press, Baku, 1997 (in Russian).

8. R.A.Aliev, R.R.Aliev, "The intelligent systems theory and its application", p. 720, Chashioglu Publishing House, Baku, 2001 (in Russian).

9. R.A.Aliev, R.R.Aliev, "Soft Computing and its Applications", p. 444, World Scientific, 2001.

10. R.A.Aliev, R.R.Aliev, "Soft Computing", p. 680, Chashioglu Publishing House, Baku, 2004 (in Azerbaijani).

11. Rafik A. Aliev, Bijan Fazlollahi, Rashad R. Aliev, "Soft Computing and its Applications in Business and Economics", p. 446, Springer-Verlag, 2004.

12. R.A.Aliev, R.R.Aliev, "Control Theory", p. 640, Chashioglu Publishing House, Baku, 2007 (in Azerbaijani).

13. N.R.Yusupbekov, R.A.Aliev, R.R.Aliev, A.N.Yusupbekov, "Intelligent control and decision making systems", p. 490, State scientific publishing house "Uzbekistan National Encyclopedia", Tashkent, 2014 (in Russian).

14. Rafik A Aliev, Oleg H Huseynov, Rashad R Aliyev, Akif A Alizadeh, "The Arithmetic of Z-Numbers: Theory and Applications", p. 301, World Scientific Publishing Co, 2015.

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4. Rashad Aliev, Rahib Abiyev, Mustafa Menekay, "Fuzzy Approach to Portfolio Selection Using Genetic Algorithms", Intelligent Automation and Soft Computing, Vol. 14, No. 4, pp. 525-540, 2008.

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8. Rashad Aliyev, Hasan Temizkan and Rafig Aliyev, “Fuzzy Analytic Hierarchy Process-Based Multi-Criteria Decision Making for Universities Ranking”, Symmetry 2020, 12(8), 1351.

9. Kamala Aliyeva, Aida Aliyeva, Rashad Aliyev, and Mustafa Özdeşer, “Application of Fuzzy Simple Additive Weighting Method in Group Decision-Making for Capital Investment”, Axioms 2023, 12(8), 797.

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networks based tuner", News of Academy of Science of Russia, "Technical cybernetics", Moscow, № 2, pp. 192-197, 1994 (in English and Russian).

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30. R.A.Aliev, O.H.Huseynov, R.R.Aliyev, "A sum of large number of Z-numbers", Procedia Computer Science, 2017, 120, pp. 16-22.

31. Akif V. Alizadeh, Rashad R. Aliyev, Oleg H. Huseynov, "Algebraic Properties of Z-Numbers under Additive Arithmetic Operations", Advances in Intelligent Systems and Computing, 2019, 896, Springer, pp. 893-900.

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33. Rashad R. Aliyev, Hasan Temizkan, "Application of Analytic Hierarchy Process Method for Ranking of Universities", Advances in Intelligent Systems and Computing (AISC), 2020, 1095, pp. 772-780.

34. R. R. Aliyev, O. H. Huseynov, Javanshir Guliyev, "Toward an Analysis of Pairwise Comparison Matrices with Z-number-valued Elements", Lecture Notes in Networks and Systems (LNNS), 2022, 362, Springer, pp. 420-427.

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36. Aida Aliyeva, Kamala Aliyeva, Rashad Aliyev, Mustafa Özdeşer. "Implementation of Fuzzy Aggregation Operators in Group Decision Making for Investment Analysis". Lecture Notes in Networks and Systems (LNNS), 2024, pp.145-153.

37. R.R.Aliyev, O.H. Huseynov. "An Application of the Z-Number Concept to Dynamic Decision Making". Lecture Notes in Networks and Systems (LNNS), 2024, pp.168-172.

38. Alizadeh, Akif Vali, Aliyev, Rafig Rashad, Aliyev, Rashad Rafig. "Simple Arithmetic Operations of Z-Numbers Based on Kernel Distribution Function". Lecture Notes in Networks and Systems (LNNS), 2026, pp.288-293.

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2. R.R.Aliev, (Section 14.2 - "Industrielle Controller auf der Basis von neuronalen Expertensystemen", pp. 293-304), in R.A.Aliev, K.W.Bonfig, F.T.Aliew, Messen, Steuern und Regeln mit Fuzzy-logik, Franzis-Verlag GmbH. Co.KG, Munchen, 1994 (in German).

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4. R.R.Aliev, (Section 13.1.2 - "Bildung der Wissensbasen fur die reflektorische Tatigkeit des IR", pp. 384-392; Section 10.2 - "Adaptive Steuerung auf Basis der Fuzzy-Logik und des genetischen Algorithmus", pp. 314-317; Section 12.1 - "Anwendung von Soft Computing zur steuerung des Katalytischen Crackens", pp. 354-371; Section 14.1 - "Prinzipien and Methoden fur den Aufbau von verteilten intelligenten Fuzzy-Systemen", pp. 416-432), in R.A.Aliev, K.W.Bonfig, F.T.Aliew, Soft Computing: eine grundliegende Einfuhrung, Berlin: Verl. Technik, 2000 (in German).

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2. R.R.Aliev, "Fuzzy neural system for technological process control", Proceedings of the First International Conference on Application of Fuzzy Systems (ICAFS-94), Tabriz, Iran, pp. 63-66, 1994.

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48. R.R.Aliev, Mobina Beheshti, "Fuzzy database management system for real estate analysis", Proceedings of the Tenth International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS-2012), Lisbon, Portugal, August 29-30, pp. 105-109, 2012.

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53. R.A.Aliev, R.S.Gurbanov, R.R.Aliev, K.R.Aliyeva, "Properties of Z-numbers", Proceedings of the Eleventh International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS-2014), France, September 2-3, 2014, pp. 55-60.

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55. R.R.Aliev, O.H.Huseynov, K.R.Aliyeva, "Aggregation of an expert group opinion under Z-information", Proceedings of the Eighth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW-2015), Antalya, Turkey, September 3-4, 2015, pp. 115-124.

56. Rashad R. Aliev, Sara Salehi, "Implementation of fuzzy C-means clustering technique for the hotel occupancy problem", Proceedings of the Ninth World Conference on Intelligent

Systems for Industrial Automation, WCIS-2016, 25-27 October 2016, Tashkent, Uzbekistan, pp. 14-19.

Scholarships

Fulbright Scholar (USA, Georgia State University, 1999-2000)

DAAD Scholar (Germany, Siegen University, 1997-1998)

Courses taught

Undergraduate courses: Programming Languages, Introduction to Computer Science - I, Artificial Intelligence, Discrete Mathematics, Database Management Systems, File Organization and Processing, Neural Network, Fundamentals of Computer Science - I, Computer Networks and Communication, Object Oriented Programming, Discrete Mathematics for Information Technology, Web Design, Data Mining, Internet Programming and Web Design, Data Analytics, Internet Based Programming, Advanced Programming

Graduate courses: Artificial Intelligence, Decision Making and Forecasting, Data Mining, Database Management Systems, Soft Computing, Decision Making, Computational Intelligence

Membership in program committees of international conferences

- Second International Conference on Soft Computing and Computing with Words in System Analysis, Decision and Control, ICSCCW-2003, Antalya, Turkey, September 9-11, 2003.
- International Conference on Computational Intelligence, ICCI 2004, Near East University, TRNC, May 27-29, 2004.
- Sixth International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2004, Barcelona, Spain, September 28-30, 2004.
- Third World Conference on Intelligent Systems for Industrial Automation, Tashkent, Uzbekistan, October 12-13, 2004.
- Third International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, ICSCCW-2005, Antalya, Turkey, September 1-2, 2005.
- Seventh International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2006, Siegen, Germany, September 13-14, 2006.
- Fourth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, ICSCCW-2007, Antalya, Turkey, August 27-28, 2007.

- Eighth International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS-2008), Helsinki, Finland, September 1-3, 2008.
- Fifth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, ICSCCW 2009, Famagusta, North Cyprus, September 2-4, 2009.
- Ninth International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2010, Prague, Czech Republic, August 26-27, 2010.
- Sixth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, ICSCCW-2011, Antalya, Turkey, September 1-2, 2011.
- Tenth International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS-2012), Lisbon, Portugal, August 29-30, 2012.
- Seventh International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW-2013), Izmir, Turkey, September 2-3, 2013.
- Eleventh International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS-2014), France, September 2-3, 2014.
- Eighth World Conference on Intelligent Systems for Industrial Automation (WCIS-2014), Tashkent, Uzbekistan, November 25-27, 2014.
- Eighth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW-2015), Antalya, Turkey, September 3-4, 2015.
- 12th International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2016, 29-30 August 2016, Vienna, Austria.
- Ninth World Conference on Intelligent Systems for Industrial Automation (WCIS-2016), Tashkent, Uzbekistan, 25-27 October, 2016.
- 9th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception (ICSCCW-2017), August, 2017, Budapest, Hungary.
- 13th International Conference on Theory and Application of Fuzzy Systems and Soft Computing - ICAFS-2018, 27-28 August, 2018, Warsaw, Poland.
- Tenth World Conference on Intelligent Systems for Industrial Automation (WCIS-2018), 25-26 October, 2018, Tashkent, Uzbekistan.
- 10th International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions - ICSCCW-2019, 27-28 August 2019, Prague, Czech Republic.

- 14th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools - ICAFS 2020, 27th - 28th August 2020, Budva - Montenegro.
- 11th International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions and Artificial Intelligence - ICSCCW-2021, 23-24 August, Antalya, Turkey.
- 15th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools – ICAFS 2022, August 26-27 2022, Budva - Montenegro.
- 12th World Conference on Intelligent systems for industrial automation – WCIS 25-26 November, 2022 Tashkent, Uzbekistan.
- 16th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools – ICAFS 2023, September 14-15 2023, Antalya - Turkey.
- 12th International Conference on Theory and Application of Soft Computing, Computing with Words, Perception and Artificial Intelligence (ICSCCW 2024), 26-27 August, 2024, Budva – Montenegro.
- 17th International Conference on Theory and Application of Fuzzy Systems, Soft Computing and AI tools – ICAFS 2025, August 25-26, 2025, Iaşi – Romania.

Membership in organization committees of international conferences

- First International Conference on Application of Fuzzy Systems - ICAFS-94, Tabriz, Iran, October 17-19, 1994.
- Second International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-96, Siegen, Germany, June 25-27, 1996.
- Third International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-1998, Wiesbaden, Germany, October 5-7, 1998.
- Fourth International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2000, Siegen, Germany, June 27-29, 2000.
- First World Conference on Intelligent Systems for Industrial Automation (WCIS 2000), Tashkent, Uzbekistan, September 14-16, 2000.
- First International Conference on Soft Computing and Computing with Words in System Analysis, Decision and Control, Antalya, Turkey, June 6-8, 2001.
- Fifth International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2002, Milan, Italy, September 17-18, 2002.
- 7th Conference on Machines, Computations and Universality, Eastern Mediterranean University, Famagusta, North Cyprus, 9-11 September, 2015.

Edited conference proceedings

- R.A.Aliev, K.W.Bonfig, F.T.Aliew, R.R.Aliev (Eds.), Application of Fuzzy Systems and Soft Computing, p. 249, b-Quadrat Verlag, Germany, 2004.
- B.Turksen, R.A.Aliev, S.V.Ulyanov, R.R.Aliev (Eds.), Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, p. 270, b-Quadrat Verlag, Germany, 2005.