

PROF. DR. ÖMER AKIN'S LIFE AND WORKS



Prof. Dr. **ÖMER AKIN**, still Mathematicians Association Honorary President and Turkey Chambers and Stock Exchanges Union ECONOMICS AND TECHNOLOGY UNIVERSITY DEPARTMENT OF MATHEMATICS Lecturer conference presidency and the science board membership on organizing many conferences with whether the area has been made. He is the editor-in-chief of two journals published by the Mathematicians Association. Prof. Dr. Omer AKIN's CURRICULUM HISTORY is given below. It is offered with respect.

PLACE AND DATE OF BIRTH

: Afyon, 1953

WORKING UNIT

: Faculty of Arts and Sciences Department of Mathematics

POSITION

: Faculty Member (Prof.Dr.)

RESEARCHER CATALOGUE TEMPLATE

Researcher Information Title: Prof. Dr.

Name-Surname: Ömer AKIN

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From the Eyes of the Researcher

Applied Mathematics, Potential Theory, Difference Equations, Population Dynamics, Fuzzy Logic Theory and Applications. Of these areas, especially graduated logic theory, in

engineering, economics, health, social sciences, etc. It has very important applications in these fields and this importance will increase in the next 10 years.

Research

- Ordered Initial Value Problems,
- Population Dynamics, □ Medical Mathematics,
- Problems with Order Differential Equations with Singular Perturbation,
- Difference Equations and Applications, □ Order of Similarity Theory and Applications.

Education

	Year	University
Doctoral Degree	1984	Firat University
Master's Degree	1979	Firat University
Bachelor's Degree	1974	Ankara University

Work Experience / External Positions / Administrative Duties

Institution	Position
Düziçi Teacher High School, Adana, MEB	Teacher
Faculty of Science, Dicle University	Assistant
Faculty of Science and Letters, Firat University	Research Assistant
Faculty of Science Ankara University	Assistant Professor
Faculty of Science, Ankara University	Associate Professor
Faculty of Science and Letters, Gazi University	Prof.Dr.
Faculty of Science and Letters, TOBB University of Economics and Technology	Prof.Dr.

Honours And Memberships Awards

- 1. k-Superharmonic Functions and L.Kelvin's Theorem, Proceedings of The NATO Advanced Research Workshop on Classical and Modern Potential Theory and Applications, pp. 19 - 29,(1994). Tübitak Scientific Incentive Award.
- 2. Oscillations of the system of linear nonautonomous difference equations, Journal of mathematica Analysis and Applications, 283(2003), pp. 213-218, (with Ozkan Ocalan), Gazi University Rectorate Science Award and Tübitak Scientific Incentive Award. Gazi Uni. Rectorate Science Award.

- 3. Oscillatory behaviour of a higher order neutral type nonlinear forced differential equation with oscillating coefficients, Journal of Mathematical Analysis and Applications, 290 (2004), pp. 302-309 (with Yaşar Bolat) Gazi University Rectorate Science Award and Tübitak Scientific Incentive Award. Gazi Uni. Rectorate Science Award.
- 4. Oscillatory behaviour of a higher order nonlinear neutral difference equation with oscillating coefficients, Appl. Math. Letters. 17 (2004), 10731078 (with Yaşar Bolat) Gazi University Rectorate Science Award and Tübitak Scientific Incentive Award. Gazi Uni. Rectorate Science Award.
- 5. Oscillatory behaviour of a higher order neutral type nonlinear forced differential equation with oscillating coefficients, Journal of Mathematical Analysis and Applications, 290 (2004), pp. 302-309 (with Y.Bolat) Gazi University Rectorate Science Award and Tübitak Scientific Incentive Award. Gazi Uni. Rectorate Science Award (2005).
- 6. Oscillatory behaviour of a higher order nonlinear neutral difference equation with oscillating coefficients, Appl.Math.Letters.17 (2004),10731078. (with Y.Bolat) Gazi University Rectorate Science Award and Tübitak Scientific Incentive Award. Gazi Uni. Rectorate Science Award. (2005)
- **Scholarships:**
- 1. Approaches of Positive Solutions of Generalized Weinstein Equation to Martin Boundary and Properties in Boundary Neighborhood. TÜBİTAK-Edinburgh University Department of Mathematics, UK 1986.
- 2. Optimization of The Linear-Quadratic Control Problem with Separated and Nonseparated Boundary Conditions; NATO Project PST CLG № 977251, Project supervisor, 2004.

Membership of Professional Bodies

- Turkish Mathematical Society,
- Mathematicians Association (Honorary President)
- Academics Association

Editorial Boards

- Turkish Journal of Mathematics And Computer Science (Editor in Chief).

Project List

- Optimization of The Linear-Quadratic Control Problem with Separated and Nonseparated Boundary Conditions; NATO Project PST CLG № 977251, Project Manager, 2004.

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Areas of Work

Graded (Fuzzy) Logic and Its Applications

It is a very valuable logic put forward by Lütfü Zade in 1965. With this logic, mathematical models are as close as possible to real values. Both economic problems and engineering problems and social problems reach more sensitive solutions. With the help of this logic, initial and boundary value problems can be solved with a fuzzy approach.

Population Dynamics

Here, behaviors of communities with different structures can be modeled. The communities' predator, friend, enemy, etc. Various mathematical structures emerge according to their structures. With classical (crisp) understanding, degree (fuzzy) logic, etc. Transitions between models can also be provided with methods.

Medical Mathematics

Here, various infectious diseases are discussed according to ecological conditions and the mathematical models that emerge in the event of death or absence change. Here too, more cautious models against infectious diseases can be obtained by using graded logic.

Graded Similarity Theory and Applications

Here, to what extent the characteristics of the works to be done in the projects for plant communities and the elements of these communities are close to each other or not is mathematically examined with the help of membership functions.

Publications

Articles published in international refereed journals:

A1. AKIN Ö. The Integral Representations of the positive solutions of the Generalized Weinstein Equation on a Quarter Space, The SIAM journal on Mathematical Analysis, Vol.19, No:6, PP. 1348 – 1354 ,(1988)*.

A2. AKIN Ö. "Boundary Behaviour of Solutions to the Generalized Weinstein Equation, Lecture Notes in Mathematics"1393 Du Seminare de Theorie du Potential - Paris, Volume No:9 PP. 24-38,(1989)

A3. AKIN Ö. "The Behaviour of the Local, Positive Majorable Solutions to the Generalized Weinstein Equation", Mathematica, Tome 35(58) N.1, PP. 1-7, (1993)*.

A4. Sağel M.K. , AKIN Ö. S "An Interpretation of Subharmonic Functions using The Gauss Curvature", Bull. Cal. Math. Soc. 85, PP. 393 - 402 (1993). Math Reviews: 96e:53007,p:2917

A5. AKIN Ö., Bairamov E. On the Structure of Discrete Spectrum of the Nonselfadjoint System of Differential Equations in the first order, Journal of the Korean Mathematical Society, Vol.32, No:3,(1995)*

A6. AKIN Ö. "On Some Properties of the Positive Solutions of the Generalized Weinstein Equation", Uzbek Mathematics Journal, v.4, pp. 14 –19,(1997).

A7. Yıldırım H., **AKIN Ö.** Riesz Potentials Generated By a Generalized Shift Operator", The Bulletin of the Calcutta Mathematical Society, 90(1998), pp.1-8,

A8. F. A. Aliev, V. B. Larin, Ö. **AKIN**, N. Doğan, H. H. Sayan, On a symmetrization of the boundary value problem, Applied and Computational Mathematics, Vol. 1, No. 1, 2002, pp.69-80.

A9. Bolat Y., **AKIN Ö.**, Nonoscillatory solutions of delay difference equations with oscillating coefficients, Demonstratio MATHEMATICA, Volume 36, pp. 859-866 (2003).

A10. Öcalan Ö., **AKIN Ö.**, Oscillations of the system of linear nonautonomous difference equations ,Journal of mathematical Analysis and Applications, 283(2003), pp. 213-218. *

A11. AKIN Ö., Aliev F. A., Can M., Dogan N., Sayan H. H., İsmailov N. A., Algorithm of Solutions of Linear Quadratic Optimal Control Problem with Nonseparated Boundary Conditions in Mixed (Continuous- Discrete) Typed , Dynamics of Non-homogenous Systems, Vol.7, Moscow, 2004, pp.92-100

A12. Sayan H. H., Dogan N., **AKIN Ö.**, Aliev F., Conditioning and Sensitivity Analysis of Two-Point Boundary Value Problem for the System of Linear Ordinary Differential Equations with Constant Coefficients, Dynamics of Nonhomogenous Systems, Vol.7, Moscow, 2004, pp. 55-65.

A13. Dogan N., Sayan H.H., **AKIN Ö.**, Aliev F., Conditioning and Sensitivity Analysis of Two-Point Boundary Value Problem for the System of Linear Ordinary Difference Equations with Constant Coefficients, Dynamics of Nonhomogenous Systems, Vol.7, Moscow, 2004, pp. 42-54.

A14. Ocalan Ö., **AKIN Ö.**, Oscillations of Higher-Order of System of Difference Equations, Indian Mathematical Journal Pure and Applied Mathematics(Vol.36, No.4, 2005). *

A15. Bolat Y., **AKIN Ö.**, Oscillatory behaviour of a higher order neutral type nonlinear forced differential equation with oscillating coefficients, Journal of Mathematical Analysis and Applications, 290 (2004), pp. 302-309 *

A16. Bolat Y., **AKIN Ö.**, Oscillatory behaviour of a higher order nonlinear neutral delay type functional differential equation with oscillating coefficients, Czechoslovak Mathematical Journ, (Vol.55, No.4, December, 2005), *

A17. Bolat Y., **AKIN Ö.**, Oscillatory behaviour of a higher order nonlinear neutral difference equation with oscillating coefficients, Appl. Math. Letters.17 (2004), 1073-1078 *

A18. Nurettin DOĞAN, H. Hüseyin SAYAN, **Ömer AKIN**, Conditioning And Residual Error Estimation for Two Point Boundary Value Problems, Applied and Computational Mathematics- An International Journal, Volume 5, No 2, 2006.

- A19.** Öcalan, Özkan; AKIN, Ömer, Oscillation properties for advanced difference equations. *Novi Sad J. Math.* 37 (2007), no. 1, 39-47.
- A20.** Sarikaya, M.Z., Yildirim, H., **AKIN Ö.**, On generalized Riesz type potential with Lorentz distance, *Lobachevskii Journal of Mathematics*, Volume 29, Issue 1, January 2008, Pages 32-39.
- A21.** Çelik, C. , Merdan, H. , Duman, O. , **AKIN Ö.**, Allee effects on population dynamics with delay, *Chaos, Solitons and Fractals*, Volume 37, Issue 1, July 2008, Pages 65-74.
- A22.** Merdan, H. , Duman, O. , **AKIN**, O. , Çelik, C, Allee effects on population dynamics in continuous (overlapping) case, *Chaos, Solitons and Fractals*, Volume 39, Issue 4, 28 February 2009, Pages 1994-2001.
- A23.** Bolat, Y., **AKIN**, Ö., Yildirim, H, Oscillation criteria for a certain even order neutral difference equation with an oscillating coefficient, *Applied Mathematics Letters*, Volume 22, Issue 4, April 2009, Pages 590-594.
- A24.** **AKIN**, O., Özüğurlu E., Analytical and numerical methods for the CMKdV-II equation, *Mathematical Problems in Engineering*, Volume 2009, 2009, Article number 935030.
- A25.** Bolat, Yaşar; **AKIN**, Ömer, Necessary and sufficient conditions for oscillation of some higher-order partial difference equations. *Difference equations and applications*, 155-162, Uğur-Bahçeşehir Univ. Publ. Co., Istanbul, 2009
- A26.** Özpinar, Figen; AKIN, Ömer, Necessary and sufficient conditions for oscillation of certain higher order partial difference equations. *Int. J. Difference Equ.* 4 (2009), no. 2, 211-218.
- A27.** Doğan, N. , Ertürk, V.S., Momani, S. , **AKIN**, Ö., Yildirim, A., Differential transform method for solving singularly perturbed volterra integral equations, *Journal of King Saud University - Science*, Volume 23, Issue 2, April 2011, Pages 223-228.
- A28.** Gasilov, N., Amrahov, S.E., Fatullayev, A.G., Karakaş, H.I., **AKIN Ö.**, A geometric approach to solve fuzzy linear systems, *CMES - Computer Modeling in Engineering and Sciences*, Volume 75, Issue 3-4, 2011, Pages 189-203.
- A29.** A. H. Sofiyev · A. N. Alizada · Ö. **AKIN** · A. Valiyev · M. Avcar · S. Adiguzel, On the stability of FGM shells subjected to combined loads with different edge conditions and resting on elastic foundations, *Acta Mech* DOI 10.1007/s00707011-0548-1 Received: 3 December 2010© Springer-Verlag 2011.
- A30.** Nurettin Dogan, Vedat Suat Ertürk, and **Ömer AKIN**, Numerical treatment of singularly perturbed two point boundary value problems by using Differential Transformation Method, *Discrete Dynamics in Nature and Society* Volume 2012, Article ID 579431, 10 pages, doi:10.1155/2012/579431.
- A31.** Nurettin Dogan, **Ömer AKIN**, Series Solution of Epidemic Model, *TWMS Journal of Applied and Engineering mathematics*, V.2, No.2, 2012, pp. 238-244.

A32. Ö.**AKIN**, T. Khaniyev, F. Gökpınar, İ.B. Türkşen, An Algorithm for the solution of second order Fuzzy Initial Value Problem, Expert system and Applications, 40, 953-957, 2013.*

A33. Figen özpinar, Zeynep Fidan Koçak, **Ömer AKIN**, Oscillation Criteria of impulsive partial difference Equations, TJMCS Turkish Journal of mathematics and Computer Science, Article ID 20130029, 2013.

A34. O. **AKIN**, Tahir Khaniyev, O. Oruç, İ.B. Türkşen, Some Possible Fuzzy Solutions for Second Order Fuzzy Initial Value Problems Involving Forcing ters, Applied And Computational Mathematics, 13,2, 239-249, 2014.*

A35. O.**AKIN**, T. Khaniyev, S. Bayeg, İ.B. Türkşen, An Indicator Operator Algorithm for Solving A Second Order Fuzzy Initial Value Problem, Turk. J. Math. Comput. Sci., TJMCS (2016)16-25.

A36. Y. Bolat, Ö. **AKIN**, Oscillatory Criteria for higher-order nonlinear delay dynamic equations on time scales, Mathematica Slovaca Vol.66, Issue 3-Jun 2016, pp.677-686.

A37. Ö. **AKIN**, S. Bayeğ, Some Results on the Fundamental Concepts of Fuzzy Set Theory in Intuitionistic Fuzzy Environment by Using α and β cuts, Filomat, 2018.

A38. Ö. **AKIN**, S. Bayeğ, The concept of Hukuhara derivative and Aumann integral for intuitionistic fuzzy number valued functions, MANAS Journal of Engineering ISSN 1694-7398 | e-ISSN 1694-7398, Volume 6 (Issue 2) (2018) Pages 143-163.

A39. **Ömer AKIN**, Selami Bayeğ, Intuitionistic Fuzzy Initial Value Problems - An Application, Doi: 10.15672/HJMS.2018.598.*

A40. **Ömer AKIN**, Selami Bayeğ, System of intuitionistic Fuzzy Differential Equations with Intuitionistic fuzzy Initial Values, Notes on Intuitionistic fuzzy sets, DOI. 10.7546/nifs 2018,24.4,141-171.

A41. Ilyas Hashimoglu, **Ömer AKIN**, Khanlar R Mamedov The discreteness of the spectrum of the Schrödinger operator equation and some properties of the s-numbers of the inverse Schrödinger operator, Mathematical Methods in the Applied Sciences, 2019, 1-13.

A42. Ali Yüksek, **Ömer AKIN**, The Relationship Between Islamic Law and Fuzzy Logic, Oş Devlet Üni. İlahiyat Fak. İlmi Dergisi, 27. Sayı, 2019, 29 – 37.

A43. Harun Baldemir, Agah **AKIN**, **Ömer AKIN**, Fuzzy Modelling of Covid-19 in Turkey and Some Countries in the World, Turkish J. Math. Comput. Sci. 12(2) 2020, 1 – 9.

* Articles published in journals scanned in the Science Citation Index.

B. Papers presented at international scientific meetings and published in the proceedings book:

- B1. AKIN Ö.** "The Generalized Perron - Wiener - Brelot Method for k - Harmonic Functions", Proceedings of the sixth Colloquium on Differential Equations held in Plovdiv, in Bulgaria, PP. 13 - 22,(1995).
- B2. AKIN Ö.** " k - Superharmonic Functions and L. Kelvin's Theorem", Proceedings of The NATO Advanced Research Workshop on Classical and Modern Potential Theory and Applications, PP. 19 - 29,(1994).
- B3. AKIN Ö.** , Leutwiler H. "On the Invariance of the Solutions of the Weinstein Equation under Mobius Transformations", the Proceedings of the NATO Advanced Research Workshop on Classical and Modern Potential Theory and Applications, PP. 19 - 29, (1994).
- B4. AKIN Ö.** The Solutions of the Generalized Dirichlet Problem by k - Upper Functions, the Proceedings of the seventh Colloquium on Differential Equations held in Plovdiv, in Bulgaria, Vol. II, PP. 1 - 11, Academic Publications (1996).
- B5.** Yıldırım H., Ekinciöğlü İ., **AKIN Ö.** Gauss - Weierstrass Semi-groups and Inversious of Riesz k -Potentials Generated by the Generalized Shift Operators, Invited Lecture Delivered at the seventh International Colloquium on Differential Equations, , Plovdiv, Bulgaria, Vol.II, Academic Publications, PP. 147 - 158,(1996).
- B6.** Ekinciöğlü İ., Yıldırım H.,**AKIN Ö.** The Mean Value Theorem for Laplacean - Bessel Equation, Invited Lecture Delivered at the seventh International Colloquium on Differential Equations, Plovdiv, Bulgaria, Vol.II, Academic Publications, PP. 2937,(1996)
- B7. AKIN Ö.** The Behaviour Of K -Subharmonic Functions Near The Singular Hyperplanes", The Second Turkish - Azerbaijan Mathematics Symposium, September 8-14, (1992), Bakü- Azerbaijan.
- B8.** Aliev İ.A., **AKIN Ö.**, Gadjev A.D. B - Metaharmonic Semi-Groups And Their Properties, 3. Azerbaijan - Turkey Mathematics Symposium, (1993), Trabzon - Turkey.
- B9. AKIN Ö.** " K -Superharmonic Functions And 1.Kelvin's Theorem", Nato Arw July (1993), Classical And Axiomatic Potential Theory, Chateau De Bonas, Toulouse - France.
- B10. AKIN Ö.** "The Generalized Perron - Wiener - Brelot Method For K -Harmonic Functions", Sixth International Colloquium On Differential Equations, Plovdiv, Bulgaria, August 18-23, (1995) Invited Lecture For One Hour.
- B11. AKIN Ö.** "The Solution Of The Generalized Dirichlet Problem By K -Upper Functions", VII. International Colloquium On Differential Equations, 18-23 August (1996), Plovdiv - Bulgaria (Invited Lecture).
- B12. AKIN Ö.** Can M. "Hirota's Bilinear Form And Exact Solutions Of The CmKdV Equation", 10-17 July (1996), Athens-Greece, (Invited Lecture).
- B13.** Nurettin DOĞAN, **Ömer AKIN**, Solution Of Linear Differential-Algebraic Equations By Combined Laplace Transform. Adomian Decomposition Method, The 4th Congress of the Turkic World Mathematical Society (TWMS), 1-3 July, 2011, Baku, Azerbaijan.

B14. Ömer AKIN, An algorithm for the solution of second order fuzzy initial value problems, Sixth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control ICSCCW- 2011, 01- 02 Eylül 2011, Antalya.

B15. Ömer AKIN, Fuzzy Differential Equations, ICCES MM 2011- International Conference on Computational & Experimental Engineering and Sciences and Inverse Problem in Engineering & Sciences 06- 10 Eylül 2011, Zonguldak.

B16. Ömer AKIN, Possible Fuzzy solutions For second Order Initial Value Problems, The 11th International Workshop on Dynamical systems and Applications, June 26-28,2012 Çankaya University, Ankara TURKEY.(Joint work with Burhan Türkşen,Tahir Khaniyev and Ömer Oruç)

B17. Ömer AKIN. Some Possible Fuzzy Solutions For second order Fuzzy initial value Problems Involving Forcing terms, IECMSA(1st International eurasian Conference on Mathematical sciences and Applications) – 2012 September 03-07 2012, Prishtina/ KOSOVA. (Joint work with Burhan Türkşen, Tahir Khaniyev and Ömer Oruç).

B18. Ömer AKIN, An Initial value Problem In Fuzzy theory, IECMSA(2nd International eurasian Conference on Mathematical sciences and Applications) – 2013 August 26 - 29 2013, Sarejevo/ Bosnia and Herzegovina. (Joint work with Burhan Türkşen, Tahir Khaniyev and F. Gökpınar).

B19. Ömer AKIN, A Second order linear differential equation with Fuzzy Coefficients and Fuzzy Forcing Functions, 12th International Workshop on Dynamical Systems and applications(IWDSA 2013), August 12 – 15 2013, ATILIM UN. Ankara.

B20. Ömer AKIN, Ersin ÖZUĞURLU Comparison type theorem for the number of zeros of a fourth order Sturm-Liouville problem," *IX. Dynamic Systems Workshop*, İzmir, 18-19 June 2009.

B21. Ömer AKIN, Fuzzy initial value problems for the second order differential equations, Issyk-Kul International Mathematical Forum, Kyrgtan, Issyk-Kul, Bozteri, 24 – 27 June, 2015.

B22. Ömer AKIN (Keynote Speaker), Fuzzy initial value problems for the second order differential equations, The 5th International Conference on Control and optimization with Industrial Applications, 27-29 August, 2015, Baku, Azerbaijan.

B23. Ömer AKIN, Selami BAYEG, An Indicator Operator Algorithm For solving A Second Order Intuitionistic Fuzzy Initial Value Problem, International Conference On Mathematics And Mathematics Education(ICMME-2016), May 12 – 14,2016, Elazığ/Turkey.

B24. Ömer AKIN(Invited Speaker), Solving A Second Order Fuzzy Initial Value Problem Using Heaviside Function, International Congress On Fundamental And Applied Sciences (ICFAS2016),22-26 August 2016 İstanbul- Turkey,

B.25. Ömer AKIN (Invited Speaker) On The Solutions Of Initial Value Problems For the Second Order Differential Equations In Intuitionistic Environment, 3rd I

International Intuitionistic Fuzzy Sets and Contemporary Mathematics Conference, 29 August-01 September 2016, Mersin-Turkey.

B.26. Ömer AKIN, Selami BAYEĞ, *Solving Second Order Intuitionistic Fuzzy Initial Value Problems with Heaviside Function*, 3rd International Intuitionistic Fuzzy Sets and Contemporary Mathematics Conference, 29 August-01 September 2016, Mersin-Turkey.

B. 27. Ömer AKIN, Selami BAYEĞ, Generalized Hukuhara Differentiability in Intuitionistic Environment, Conferenc On Mathematics And Mathematics Educaton (ICMME-2017), May 11 – 13, 2017, Şanlıurfa/Turkey.

B. 28. Ömer AKIN, Hande AKKOCAOĞLU, An Application of Ecological Models in Fuzzy Initial Value Problems, Conferenc On Mathematics And Mathematics Educaton (ICMME-2017), May 11 – 13, 2017, Şanlıurfa/Turkey.

B. 29. Ömer AKIN, Maksude KELEŞ, Derivatives in Fuzzy Logic and Some Applications, Conferenc On Mathematics And Mathematics Education (ICMME2017), May 11 – 13, 2017, Şanlıurfa/Turkey.

B. 30. Ömer AKIN, Selami BAYEĞ (2018). Some results on H. metric for intuitionistic fuzzy sets, Proceedings of ICMME-18: International Conference On Mathematics And Mathematics Education, June 27-29, Ordu, Turkey.

B.31. Ömer AKIN, The concept of Hukuhara derivative and Aumann integral for IFNs* *IWDSA 2019*, Ankara – Turkey.

B.32. Sanem Akdeniz Şafak, Mesrur Ümit Bingül, **Ömer AKIN,** Using Fuzzy Logic in Nomenclature of Plant Communities and Determining Syntaxonomic Levels, ICMME, 2019 July 11 – 13, Selcuk Uni. Konya – Turkey.

B.33. Ömer AKIN, Selami Bayeğ, System of Intuitionistic Fuzzy Differential Equations With Intuitionistic Fuzzy Initial Values, ICMME 2019, July 11 – 13, Selcuk Uni. Konya – Turkey.

B.34. Ömer AKIN, The Language of Universe: Mathematics, The Third International Creation Congress In The Light Of Science 24-26 October 2019 Iğdır/Turkey (invited Speaker).

B35. Mesrur Ümit BİNGÖL, Sanem AKDENİZ ŞAFAK, **Ömer AKIN.** The Analysis of Plant Communities Belonging to The Forest Vegetation of Sakarat Mountain (Amasya, Turkey) in Fuzzy Similarity Environment. CMFCA. 4-6 December 2020. (Oral Presentation).

B.36, N.DOĞAN,S.BAYEĞ, R.MERT,Ö.AKIN(Keynote Speaker), Singularly Perturbed Fuzzy Initial Value Problems, June 11 – 13, 2021, Biruni University İstanbul-TURKEY.

C. International Books Written or Chapters in Books:

C1. **AKIN Ö.** , İkrarov İ.A. "On the L Boundedness of Oscillatory Integral Operators, Differential Equations and Mathematical Modelling ", 2002, pp.97105,Nova Science Publisher Inc. New York, USA.

D. Articles published in national refereed journals:

D1. **AKIN Ö.** "Completely k - Subharmonic Functions", Journal of Karadeniz Technical University Faculty of Sciences, Series of Mathematics - Physics Volume XI PP. 219 - 224, (1989).

D2. **AKIN Ö.** " On Some Properties of k - Subharmonic Functions and the Maximum Principle" Journal of Mathematics and Statistics of The Faculty of Arts and Science, Gazi University, Vol.2, PP. 17 - 26, (1989).

D3. **AKIN Ö.** "On the Convexity of the Weighted Mean values of k - Subharmonic Functions and Kelvin's Theorem", Journal Science and Arts of Gazi University, Vol.2, PP.27-34,(1989).

D4. Bildik N., **AKIN Ö.** "A Survey of Dulac's Problem", J. Firat University, Science and Technology, Vol.5, No:2, (1990).

D5. **AKIN Ö.** "Modern Computations in The Education of Mathematics", The II National Education Symposium, Held in September 18-20,1996, Faculty of Education University of Marmara. The Publications of Atatürk Education Faculty University of Marmara, pp 395-398 (in Turkish),(1997).

E. Papers Presented in National Scientific Meetings and Published in Proceedings:

E1. **AKIN Ö.** On the Conformal Invariance of the Solutions for the Weinstein Equation, Ege Uni. The Series: 1, PP. 236 - 240, The National Mathematics Symposium, 25-28 September, Ege Uni. Science Fac. Dept. Maths, (1989).

E2. **AKIN Ö.** "On the Stability of Difference Equation Systems", Atatürk University 40th Anniversary Symposium 20-22 May 1998. (Published in the special issue of the journal published in Atatürk University.)

E3. **AKIN Ö.** " An Interpretation of Subharmonic Functions using The Gauss Curvature", 7-10 July 2009, VII. Geometry Symposium, Ahi Evran University Faculty of Arts and Sciences Department of Mathematics, Kırşehir-TURKEY.

E4. **AKIN Ö.** From Binary Logic to Intuitive Logic Mathematics, 22 - 29 June, 2019, AMG 2019, Gazi University, Faculty of Science Conference Hall (Invited Speaker).

F. Books:

F1. **AKIN Ö.** Five Great Algebra Scholars, National Education Press, (1994).

F2. **AKIN Ö.** Numerical Analysis, Ankara University Press, (1998).

F3. **AKIN Ö.** , Bulgak H. Linear Difference Equations and Stability Theory, Selcuk University Press, (1998).

F4. **AKIN Ö.**, Köksal A., Yaylı Y. Differential and Integral Calculation, Nobel Yayın Dağıtım, (1999). Translation. (**Editor:** Hacısalihoğlu H.)

F5. **AKIN Ö.**, Köksal A. Advanced Mathematics, Nobel Publishing, (1999), Translation. (Editor:Hacısalihoğlu H.H.).

F6. **AKIN Ö.**, Köksal A., Yaylı Y., Erkekoğlu F. ,Özalp N., Linear Algebra, Nobel Yayın Dağıtım, (1999). Translation. (Editor: Hacısalihoğlu H.).

F7. **AKIN Ö.** (Translation Editor). Mathematical Analysis and Analytical Geometry Volume I, Palme Publishing (2001).

F8. **AKIN Ö.** (Translation Editor). Mathematical Analysis and Analytical Geometry Volume II, Palme Publishing (2001).

F9. **AKIN Ö.** (Translation Editor) Mathematical Analysis and Analytical Geometry Problem Solutions Volume I, Palme Publishing (2002)

F10. **AKIN Ö.** (Translation Editor). Mathematical Analysis and Analytical Geometry Problem Solutions Volume II, Palme Publishing (2002)

F11. **AKIN Ö.** (Translation Editor), Applied Linear Algebra, Palme Publishing (2002),

F12. **AKIN Ö.** (Translation Editor), Computer Aided Mathematical Modeling Differential Equations and Boundary Value Problems, Palme Publishing, Ankara (2005)

F13. **AKIN Ö.** Leutwiler H. Lectures on Potential Theory (27-07-1989,20-081989) Ankara University (Unpublished lecture note).

F14. **AKIN Ö.** Linear Difference Equation Systems (Scientific calculations Summer School KONYA 15-06-1998,11-07-1998) (Unpublished lecture note).

F15 **AKIN Ö.** (Translation Editor), Discrete Mathematics and Applications, Palme Publishing, Ankara (2015).

G. Papers Presented at National and International Conferences:

G1. **AKIN, Ö.** "Completely k-Subharmonic Functions", National Mathematics Symposium, September (1987) Trabzon, Turkey.

G2. Bildik N., **AKIN Ö.** "A Survey of Dulac's the problem," National Mathematics Semper, September - (1987) Trabzon-Turkey

G3. **AKIN Ö.**, The Behavior The Local, Positive, Majorable Solutions to The Generalized Weinstein Equation ", The First National Mathematics Symposium, ANKARA, August 31, September 2, (1988).

G4. **AKIN Ö.** "On The Conformal Invariance of The Solutions for The Weinstein Equation", The National Mathematics Symposium, September 25-28 (1989), EGE UNI. Faculty of Sciences. Department of Mathematics. , IZMIR TURKEY.

G5. **AKIN Ö.** "On Some Properties Of The Positive Solutions Of The Generalized Weinstein Equation", International Con-Ference On Potential Theory, August 30 - September 4, (1990), Nagoya - Japan.

G7. **AKIN Ö.** "On The Generalized Weinstein Equation", The Turkish Math. Assoc., IV. National Mathematical Symposium, 2-6 September (1991), Antakya - Hatay / Turkey.

G8. **AKIN Ö.** The Behavior of k-Subharmonic Functions Near The Singular Hyperplanes, Türk Mat. Der., V. National Mathematics Symposium. 24-28 August (1992) Adapazarı.

G9. **AKIN Ö.** The Behavior Of K-Subharmonic Functions Near The Singular Hyperplanes, The Second Turkish - Azerbaijan Mathematics Symposium, September 8-14, (1992), Baku- Azerbaijan.

G10. **AKIN Ö.** , Çelebi A.O. "On The Solutions of An Equations with Iterated Differential Operator", VI. Differential Equations Symposium, 28-29 September (1992), Ankara Uni. Science Fac. Dept. Maths., Tandoğan / Ankara - Turkey.

G11. Aliev İ.A. , **AKIN Ö.** , Gadjiev A.D. "The Inverse Formula for The Bessel Potentials", VI. The National Mathematics Symposium, Eastern Mediterranean University, 8 - 12 September (1993).

G12. Aliev İ.A. , **AKIN Ö.** , Gadjiev A.D. The Inverse Formula for The Bessel Potentials, VI. The National Mathematics Symposium, Eastern Mediterranean University, 8 - 12 September (1993).

G13. Doğan N., **AKIN Ö.** "On Some Relations Between Kernels and Solutions of Non-Linear Volterra Integral Equations Having Convolution Type Kernel", IX. Symposium on Diff.Equ. 12-14 September (1995) Adapazarı - Turkey.

G14. Sayan H., **AKIN Ö.** "Some Properties of Operator In Potential Theory", The National Mathematics Symposium, 18-21 September (1995), Ceyhan - Adana - Turkey.

G15. Yıldırım H., **AKIN Ö.** "Riesz Potentials Generated by a Generalized Shift Operator", C. Arif 85. Birthday. 2-3 November (1995), Istanbul.

G16. **AKIN Ö.**, Solutions Of Some Type Of Partial Diff. Eqs. With Hirota's Method (Invited Lecture) Workshop "Scientific Computations", 29-30 July (1996), Konya - Turkey

G17. **AKIN Ö.** "Some Main Properties Of The Solutions Of The Generalized Weinstein Equation", International Conference On Differential Equations. 9-10 September (1996), İstanbul - Turkey ..

G18. **AKIN Ö.** "Backlund Transformations and Hirota's Method X. Symposium on Differential Equations, 9-10 September (1996), İstanbul - Turkey.

G19. **AKIN Ö.** "Modern Calculations in Mathematics Education", II. National Education Symposium, 18-20 September (1996), M.Ü. Faculty of Education. Goztepe - Istanbul.

G20. **AKIN Ö.** "Some Main Properties Of The Generalized Weinstein Equation.

International Conference On Some Topics of Mathematics ". October 13-17, (1996). Samarkand, Uzbekistan.

G21. **AKIN Ö.** "Hirota's Method and Soliton Solutions", I. Kızılırmak Science Symposium, Kırıkkale University, Kırıkkale, 14-16 May (1997).

G22. **AKIN Ö.** "Role of Computers in Turkish Education and Technology. International Panel: The Role of Mathematics and Computers in New Technology". Selcuk Uni. Faculty of Science and Letters, Department of Mathematics and Applied Mathematics Research Center, 13 June (1997), Konya.

G23. **AKIN Ö.** "On The Stability of The Systems of Difference Equations", Atatürk University 40th Anniversary Mathematics Symposium, 20-22 May (1998), ERZURUM.

G24. Sayan H., **AKIN Ö.** "The Sensitivity Of Two-Point Boundary Value Problem For Differential Equation", (1998) Kırıkkale. "Systems With Constant Coefficients", II. International Kızılırmak Science Congress, 20-22 May (1998) Kırıkkale. 20-22 May (1998) Kırıkkale.

G25. Doğan N., **AKIN Ö.** "The Sensitivity Of Two-Point Boundary Value Problem For Difference Equation Systems With Constant Coefficients", II. International Kızılırmak Science Congress, 20-22 May (1998), Kırıkkale.

G26. **AKIN Ö.** "An Approximation for The Region of Attraction", XI. National Mathematics Symposium, 7-11 September (1998).

G27. Sayan H., **AKIN Ö.** "The Guarantee Approach Method for the Two Point Boundary Value Problem of a Differential Equation System". I-st Turkish World Mathematics Symposium. 29 June-2 July (1999), Elazığ- Turkey.

G28. Doğan N., **AKIN Ö.** "Garantied Accuracy Method For The Two-Point Boundary Value Problem For The System of Difference Equations". I-st Turkish World Mathematics Symposium. 29 June-2 July (1999), Elazığ-Turkey.

G29. Nurettin DOĞAN, H.Hüseyin SAYAN,, On The Residual Problem For The System of Difference Equations Having Constant Coefficentents Under Two-Point Boundary Values, The Fourth Symposium on Dynamical Systems, February 8-10,2002, İzmir - Turkey.

G30. H.Hüseyin SAYAN, Nurettin DOĞAN, **Ömer AKIN**, On The Residual Problem For The System of Differential Equations Having Constant Coefficentents Under TwoPoint Boundary Values, The Fourth Symposium on Dynamical Systems, February 8-10 2002, İzmir - Turkey.

G31. H.Hüseyin SAYAN, Nurettin DOĞAN, **Ömer AKIN**, An Application on Controllability and Observability in Continuous Time Systems, XVI. National Mathematics Symposium, 10-12 September 2003, Y.Y.Ü. Van

G32. **Ömer AKIN**, Özkan Öcalan, Oscillation of Difference Equations with Variable Coefficients, XVI. National Mathematics Symposium, 10-12 September 2003, Y.Y.Ü. Van.

G33. **Ömer AKIN**, Yaşar Bolat, Oscillatory Behavior of A Higher Order Nonlinear Forced Difference Equation With Nonlinear Neutral Term, XVI. National Mathematics Symposium, 10-12 September 2003, Y.Y.Ü. Van.

G.34. **Ömer AKIN**, Muhammed Dastcerdi, Nureddin Doğan, H. Hüseyin Sayan, An Approach to the solutions of time varying linear dynamic systems with multi-point boundary values on time scales, The First International Workshop on dynamic equations on time scales, 27.06-01.07.2005, Istanbul.

G.35. **Ömer AKIN**, İlyas Haşimov, Intermittent Spectrum of Singular Schrödinger Operator Equation and Some Properties, XVIIIth National Mathematics Symposium, 05-08 September 2005, İstanbul Kültür University.

G.36. **Ömer AKIN**, Nurettin Doğan, H. Hüseyin Sayan, Multipoint Boundary Value Solution Based on Initial Value Approach of Two-Point Boundary Value Problems with Singular Perturbation, XVIIIth National Mathematics Symposium, 05-08 September 2005, Istanbul Kültür University.

G.37. **Ömer AKIN**, Mehmet Zeki Sarıkaya, Hüseyin Yıldırım, On Generalized UltraHyperbolic Riesz Type Potentials, XVIIIth National Mathematics Symposium, 0508 September 2005 Istanbul Kültür University

G.38. **Ömer AKIN**, Hacer Köten, The Concept of Infinite Small in Salih Zeki, 2024 September 2005, Logic Mathematics and Philosophy 3rd National Symposium, Foça-İzmir.

G. 39. **Ömer AKIN**, Ö., Ersin Özüğurlu, Results on comparison type theorem for the number of zeros of a fourth order Sturm-Liouville problem, "XXII. National Mathematics Symposium, İzmir, September 2009

G.40. **Ö. AKIN**, Y. Bolat, New Oscillation Criteria for Second Order Nonlinear Differential Equations, 5. Ankara Mathematics Days, TOBB ETÜ, Department of Mathematics, 3-4 June 2010.

G. 41. **Ömer AKIN**, Ömer Oruç, Solving Second Order Fuzzy Initial Value Problems with the Help of Zadeh, XDSÇ X. Dynamic Systems Workshop, 7-9 October 2011, Gebze-İzmit.

G.42. **Ömer AKIN**, Nurettin Doğan, Numerical Solutions of Bird-Human Influenza Epidemic Model with Laplace Adomian Decomposition Method, 12. Mathematics Symposium, Exhibition and Festivals Conference, 23-25 May 2013, H.Ü. ANKARA.

G.43. **Ömer AKIN**, İlyas Haşimoğlu, Evaluation of Resolving of the Schrödinger Operator Equation, 13. Mathematics Symposium, Exhibition and Festivals Conference, 15 - 17.05.2014, Karabük University, KARABÜK.

G. 44. **Ömer AKIN**, Tahir Khaniev, Burhan Türkşen, Selami Bayeg, Nurettin Doğan, Solving of Single Perturbed Second Order Differential Equations with the Indicator Operator algorithm, 13th Mathematics Symposium, Exhibition and Festivals Conference, 15 - 17.05.2014.

G.45. **Ömer AKIN**, Tahir Khaniev, Fikri Gökpınar, Burhan Türkşen, Selami

Bayeg, An Indicator Operator Algorithm for a Second Order (Fuzzy) Initial Value Problem, 13th Mathematics Symposium, Exhibition and Festivals Conference, 15 - 17.05.2014

H. Seminars Given at Various Universities:

H1. **AKIN Ö.** "Minimal, Positive Fundamental Solutions For The Equation "

$$p \quad q$$

$L_{p,q}(u) \square \square_1 u_x^{ixi} \square x_{n \square 1} u_x^{n \square 1} \square x_n u_x^n \square 0$ University Of Edinburgh, Department Of Mathematics, 17th January, (1986)

H2. **AKIN Ö.** "Boundary Behaviour Of Solutions To The Generalized Weinstein Equation", Mathematisches Institut, Universitat Erlangen-Nürnberg, (14.7.1988)

H3. **AKIN Ö.** "On Some Properties Of K-Subharmonic Functions And The Maximum Principle", Universitat Erlangen-Nürnberg, (26.7.1988)

H4. **AKIN Ö.** "Martin's Integral Representation", Ankara Uni. Faculty of Sciences Department of Mathematics (13.3.1991)

H5. **AKIN Ö.** " $L_{p,q}$ - Minimal Harmonic Functions", Ankara Uni. Faculty of Sciences Department of Mathematics (5.6.1991)

H6. **AKIN Ö.** "Harmonic Spaces", Ankara Uni. Faculty of Sciences Department of Mathematics . (1992)

H7. **AKIN Ö.** "An Invariance Theorem and The Generalized Poisson Integral Formula for The Solutions of The Weinstein Equation", Ankara 13 MAY (1994), METU, Dept. Maths.

H8. **AKIN Ö.** "Modern Calculations" (Panel), The Applied Mathematical Centre of Selçuk University, 23 MAY (1996) , Time: 14.00, Konya - Turkey.

H9. **AKIN Ö.** Difference Equations and Lyapunov Stability, AKÜ Science and Letters Faculty Mat.Bl, 4-5.12.1997, Afyon.

H10. **AKIN Ö.**, Discrete Oscillation, Ankara Seminars on Differential Equations, Department of Mathematics, Atilim University, 2 March 2002, Ankara Turkey

H11. **AKIN Ö.**, On the Non-Oscillation Solutions of Higher Order Neutral Difference Equations with Generalized Coefficients, Ankara Seminars on Differential Equations, Department of Mathematics , Atilim University, 12 April 2003, Ankara Turkey.

H12. **AKIN Ö.**, Monoton Dönüşümlerin Çatallanmaları I (Bifurcations of Monoton Maps), Ankara Diferensiyel Denklemler Seminerleri, ODTÜ Matematik Bölümü, 21 Şubat 2000.

H13. **AKIN Ö.** Bifurcations of Monoton Maps II, Ankara Differential Equations Seminars, METU Department of Mathematics, 6 March 2004.

- H14. Salih Zeki Bey's Contributions to Mathematics on the 140th Anniversary of His Birth, Ankara University Faculty of Science, 18.05.2004, ANKARA.
- H15. **AKIN Ö.** Tuesday, April 19, 2005, Selcuk University, Halil Cin Conference Hall, Organizing Institutions: Applied Mathematics Research Center, Faculty of Science and Literature, Mathematics and Statistics Departments, Konya.
- H16. **AKIN Ö.** Numerical Solutions with Initial Value Method, Ankara Differential Equations Seminars 29.10.2005, METU.
- H17. **AKIN Ö.** Numerical solutions with Boundary Value method, Ankara Differential Equations Seminars 19.11.2005, METU.
- H18. **AKIN Ö.**, On the Fundamentals of Graded (Fuzzy) Logic Theory, Ankara Dynamical Systems Seminars, 03.11.2011, METU Mathematics Department.
- H19. **AKIN Ö.**, Fundamentals of Fuzzy Logic I, Ankara Dynamical systems seminars, 10.12.2011, METU Mathematics Department.
- H20. . **AKIN Ö.**, Human and Mathematics, 28.02.2012, SDÜ, Isparta.
- H21. . **AKIN Ö.**, The Language of the Universe Mathematics, 12.12.2012, Mehmet Akif Ersoy Uni., BURDUR.
- H22. . **AKIN Ö.**, The Language of the Universe Math, 18.04.2013, Uşak Uni. Servant.
- H23. . **AKIN Ö.**, The Language of the Universe Matematik, 08.05.2012, H.Ü. Mat. Plenty. Ankara.
- H24. **AKIN Ö.** Human and Mathematics, 04.10.2013, Cumhuriyet Uni. Sivas.
- H25. **AKIN Ö.** Why Mathematics, 22.11.2013 Karabük Uni. Karabuk.
- H26. **AKIN Ö.** Human and Mathematics, 29.11.2014, Society of Dissemination of Science, Kızılcahamam- ANKARA.
- H27. **AKIN Ö.** Human and Mathematics 10.12.2014 Demetevler Anatolian IH High School, Batıkent - ANKARA.
- H.28. **AKIN Ö.**, The Language of the Universe, Mathematics, 17.03.2015 Time: 10: 00 - 12:00, Time: 14: 00- 16:00, Niğde National Education Directorate, Cultural Center-NİĞDE ,.
- H29. **AKIN Ö.** Human and Mathematics, 28.05.2015, ASO Technical College, ANKARA
- H.30. **AKIN Ö.**, Mathematics in Our Lives, 13.10.2015, Tuesday, Time: 13:30 - 15:30, Bil Science Schools, ANKARA,
- H.31. **AKIN Ö.**, Human and Mathematics, 22.10.2015, Thursday, Time: 10: 00 - 12.00, Firat University Bahaeddin Ögel Conference Hall, ELAZIĞ,
- H32. **AKIN Ö.**, Mathematics and Human, 18.11.2015, Wednesday, Time: 14:00 - 16:00, ENKA Technical Schools, Dilovası - İZMİT.

H.33. , Mathematics in the Development of Countries, 29.03.2016, Monday, 11.00, Mehmet Akif Ersoy University, Burdur.

H.34. **AKIN Ö.** , The Role of Mathematics in the Development of Countries, 30.03.2016, Tuesday, Time: 19.00-20.45, Server Vakfı, ANKARA.

H.35. **AKIN Ö.** , The Role of Mathematics in the Development of Countries, 16.05.2016, P.Tesi, Time: 09.30-12.30, Adiyaman University, Adiyaman.

H.36, **AKIN Ö.**, The Role of Mathematics in the Development of Countries, 27.05.2016, Friday, 14.00-15.30, PROMAT, Bil-Fen, Ankara.

H.37, **AKIN Ö.**, The Language of the Universe: Mathematics, 03.11.2016, Thursday, Time: 14.00- 16.00, Harran Uni. Department of Mathematics, Urfa.

H.38, **AKIN Ö.**, Student, Parent, Teacher Communication and Success in Education, Wednesday Time: 10.30 -12.30 (for the student group), Wednesday Time: 14.00 - 16.00 (for the student group), Wednesday 20.00 - 22.00, 16.11.2016 (For Parent Group), Thursday Time.10.30- 12.30 (for student group), Thursday Time: 14.00 - 16.00 (for student group), Municipality Conference Hall, Şuhut - Afyonkarahisar.

H.39, . **AKIN Ö.**, Angled (Fuzzy (fuzzy)) Lecture on Fundamentals of Logic, 28.09.2018, Kyrgyzstan Turkey Manas University Faculty of Science, 118-Physics Laboratory, Bishkek-Kyrgyzstan.

H.40, . **AKIN Ö.**, Universe Language of Mathematics, 04.10.2018, Kyrgyzstan Turkey Manas University, Rector's Conference Hall, the Bishkek-Kyrgyzstan.

H.41, **AKIN Ö.**, 10.10.2018, School, Family, Student Communication and Success in Education through the Eyes of Mathematicians, Manas Anatolian High School Biskek-Kyrgyzstan

H.42, . **AKIN Ö.**, 18.10.2018, Fuzzy initial value problems for the second order differential equations, Kyrgyzstan-Turkey Manas University Faculty of Science 118 Physics Laboratory, Bishkek-Kyrgyzstan.

H.43, . **AKIN Ö.**, 25.10.2018, human and Mathematics, Kyrgyzstan Turkey Manas University Rector's Conference Hall, the Bishkek-Kyrgyzstan.

H.44, . **AKIN Ö.**, 08.11.2018, Some Possible Solutions for Fuzzy Fuzzy INITIAL second Order Value Problems Involving Forcing Terms, Kyrgyzstan-Turkey Manas University Faculty of Sciences Meeting Room 211, Bishkek-Kyrgyzstan.

H.45, **AKIN Ö.**, 13.11.2018, The Language of the Universe Mathematics, Manas Middle School 2018 Time: 11.00 - 12.00 Bishkek Kyrgyzstan

H.46, Ali Ö., 11/15/2018, why mathematics, Kyrgyzstan Turkey Manas University Rector's Conference Hall, the Bishkek-Kyrgyzstan.

H.47, **AKIN Ö.**, 21.11.2018, How To Achieve Success in Education Easiest, Time: 15.30- 16.30 Manas Uni. Vocational High School Cengiz Aytmatov Campus Biskek-Kyrgyzstan

H.48, , 22.11.2018, School-Family Student Communication and Success in Education, No68 Secondary School, Toktogul Street 220, Bishkek-Kyrgyzstan.

H.49, **AKIN Ö.**, 28.11.2018, Mathematics in the Relationship of Science with Islam, 15.00 - 16.00 Manas University Cengiz Aytmatov Campus Faculty of Theology Conference Hall Bishkek-Kyrgyzstan.

H.50, **AKIN Ö.**, 11/29/2018, the indicator Operator Intuitionistic Fuzzy Algorithm For Solving Second Order Initial Value Problems, Kyrgyzstan-Turkey Manas University Faculty of Sciences Meeting Room 211, Bishkek-Kyrgyzstan.

H.51, **AKIN Ö.**, 05.12.2018, Grade Logic in Tourism, Manas University Faculty of Agriculture Conference Hall, Wednesday 14.00-16.00 Cengiz Aytmatov Campus Bishkek-Kyrgyzstan

H.52, **AKIN Ö.**, 06.12.2018, Development of Mathematics in the country, Kyrgyzstan Turkey Manas University Faculty of Economics and Administrative Sciences Faculty Meeting Room A201-Bishkek-Kyrgyzstan.

H.53, **AKIN Ö.**, 20.12.2018, Hukuhar the Generalized Differentiability in Intuitionistic Environment, Kyrgyzstan-Turkey Manas University Faculty of Sciences Meeting Room 211, Bishkek-Kyrgyzstan.

H.54, **AKIN Ö.**, 25.12.2018, How to Achieve Success in Education Easiest, Time: 11.30- 12.30 Kyrgyz-Turkish Girls Vocational High School Bishkek-Kyrgyzstan.

H.55, **AKIN Ö.**, 11.10.2019, Mathematics in Our Lives, Private Sandıklı Yunus Emre Science High School, Sandıklı - Afyonkarahisar.

H.55, **AKIN Ö.**, 06.11.2019 The Language of the Universe, Mathematics, Çankırı Karatekin University

H.56, **AKIN Ö.**, 25.02.2020 Language of the Universe Mathematics, Kırşehir University, Ahi Evran Congress and Culture Center, July 15 National Will Hall, Kırşehir

H.57, AKIN Ö., The Way Mape for a Mathematicin in academic life and Busness World, Bitlis Eren University Conference on Zoom,15.04.2021,Time:20.00 – 22.00.

H.58, AKIN Ö., The Language of Nature:Mathematics,FL Academy on Zoom, 30.04.2021, Time: 20.30 – 22.00.

H. 59, Ömer AKIN, Human and Mathematics, 5th International Creation Congress in the Light of Sciences, 21-23.10.2021, Dumlupınar University Kütahya (Online), Invited Speech.

Seminars Regularly Attended:

1) Participates as a participant and speaker in ANKARA DYNAMIC SYSTEMS SEMINARS held at METU once every two weeks.

2) at TOBB ETU weekly, with Prof. Dr. İ.B.Türkşen and Prof. Dr. T. Khaniyev, DEGREE (FUZZY) LOGIC SEMINARS organized and attended by other scientists.

Theses Made Under The Management of Ömer AKIN

1-) Mustafa KANDEMİR, Phragmen for Second Order Elliptic and Parabolic Operators - Lindelöf Principles Master Thesis, Ondokuz Mayıs University Institute of Science, Samsun, February, 1994.

2-) Nurettin DOĞAN, Solutions of a Generalized Volterra Type Integral Equation, Master Thesis, A.Ü. Institute of Science, 25.10.1994.

- 3-) H.Hüseyin SAYAN, Capacity in Potential Theory, Master Thesis, A.Ü. Institute of Science, 25.10.1994.
- 4-) İnan ÇINAR, k - Potentials in n - Dimensional Space, PhD Thesis, A.Ü. Institute of Science, 31.01.1995.
- 5-) Mustafa YILDIZ, Some Problems in Generalized Function Classes for $Lu = x u + kux = xf(x, y)$ Elliptic Equation, PhD Thesis, A.Ü. Institute of Science, 18.07.1995.
- 6-) Hüseyin YILDIRIM, Riesz Potentials Obtained by Generalized Translation Operator, PhD Thesis, A.Ü. Institute of Science, 05.07.1995.
- 7-) H.Hüseyin SAYAN, Numerical Solution of Two Point Boundary-Value Problems for Ordinary Differential Equation Systems with Constant Coefficients with Guarantee Approach, PhD thesis, A.Ü. Institute of Science, May 1999.
- 8-) Gülderen KOCAKANAT, Elliptic Equations, Master Thesis, Afyon Kocatepe Uni. Institute of Science, 06.1996.
- 9-) Yaşar BOLAT, Singular Integrals and Sobolev Spaces, Master Thesis, Afyon Kocatepe Uni. Institute of Science, 06.06.1996.
- 10-) Figen ÖZPINAR, Parabolic Equations, Master Thesis, Afyon Kocatepe Uni. Institute of Science, 06.06.1996.
- 11-) Nurettin DOĞAN, Numerical Solution of Two Point Boundary-Value Problems for Constant Coefficient Ordinary Discrete Equation Systems with Guarantee Approach, PhD thesis, A.Ü. Institute of Science, May 1999.
- 12-) Yaşar BOLAT, Oscillation of the Solutions of Higher Order Difference Equations, PhD Thesis, A.Ü. Institute of Science, December 2003.
- 13-) Müge ÇAKIR, Master Thesis, A.Ü. Institute of Science.
- 14-) M.Kemal Yıldız, Master Thesis, A.K.Ü. Institute of Science.
- 15-) Özkan ÖCALAN, Behavior of Solutions of Difference Equation Systems, Doctorate Thesis, A.Ü. Institute of Science, December 2003.
- 16-) Anıl Burcu ÖZYURT, Discret Stability Theory, Master Thesis, G.Ü. Institute of Science, January, 2003.
- 17-) Burcum ÖZDEMİR, Control Theory for Discrete Systems, Master Thesis, Dumlupınar University Institute of Science, June, 2002.
- 18-) Eda YÜKLÜ, Observability in Discrete Systems, Master Thesis, Dumlupınar University Institute of Science, June, 2002.
- 19-) Eda Emre, Asymptotic Behavior of Difference Equations, Gazi Un. Know Science. Ins., 1 March 2005 (Master).
- 20-) Hakan Ulaş, Restricted Minimization Problems, Gazi Un. Science Inst., Course Grades. (Master).
- 21-) Ülkü Öztürk, Discrete Optimal Control Generalized Newton Methods, Gazi Un. Know Science. Ens, September 22, 2005. (Master)

22-) Nevzat Ünsal, Unrestricted Minimization Problems, Gazi Un. Know Science. Ens. Thesis. (Master).

23-) Hacer Köten, Concepts of Modern Mathematics in Salih Zeki, Gazi Un. Know Science. Ens. 2009. (Master).

24-) Gökçen Yeniçeri, On Numerical Solutions of Linear Differential Equation Systems, Gazi Ün. Science Science, (Master).

25-) Muhammed Tagi Dastcerdi, Control Theory, Gazi Un. Know Science. Ins., (Doctorate).

26-) Ömer Oruç, Researching the Solutions of Some Fuzzy Initial Value Problems by Generalized Hukuhara Method, TOBB ETÜ Institute of Science, July 2011. (Master).

27-) Selami Bayeğ, Intuitive Extensions of Fundamental Theorems in Graded Sets Theory and Some Applications to Initial Value Problems, TOBB ETU Graduate School of Science, 2018, (PhD).

28 -) Maksude Keleş, Derivatives in Graduated Logic and Some Applications, TOBB ETÜ Graduate School of Science, 2018, (Master).