

VATAN KARAKAYA

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Matematik Mühendisliği Bölümü, Davutpaşa Kampüsü,
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ScopusID: 23097887800

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Learning Knowledge

Doctorate
1996 - 2002

Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey

Postgraduate
1994 - 1996

Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey

Undergraduate
1990 - 1994

Firat University, Faculty Of Science, Department Of Mathematics, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bazı Yeni Dizi Uzayları ve Matris Dönüşümleri, Van Yüzüncü Yil University, 2002

Postgraduate, Değiştirilmiş Ortalamalar, Van Yüzüncü Yil University, 1996

Academic Titles / Tasks

Professor
2012 - Continues

Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering,
Department Of Mathematics Engineering

Associate Professor
2010 - 2011

Indiana University Bloomington, THE COLLEGE OF ARTS & SCIENCES, Department
of Mathematics

Associate Professor
2009 - 2011

Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering,
Department Of Mathematics Engineering

Associate Professor

2006 - 2009

Adiyaman University, Faculty Of Education

Assistant Professor

2005 - 2006

Adiyaman University, Faculty Of Education

Assistant Professor

2003 - 2005

Gaziantep University, Adiyaman Faculty Of Education

Research Assistant PhD

2002 - 2003

Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü

Research Assistant

1994 - 2002

Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü

Supported Projects

1. Karakaya V., Sekman D., Şimşek N., Project Supported by Higher Education Institutions, Kompakt Olmama Ölçüsüne Göre Darbo Tipi Dönüşümlerin Bazı Genellemeleri ve F- Contraction Altında Sabit Noktanın Varlığının Araştırılması, 2017 - 2019
2. KARAKAYA V., Project Supported by Higher Education Institutions, Sabit Nokta Yaklaşımlarıyla Bazı Diferansiyel ve Integral Denklemlerin Çözümleri, 2016 - 2017
3. KARAKAYA V., Project Supported by Higher Education Institutions, Bazı Geometrik özellikler ve sabit nokta iterasyonları, 2014 - 2016
4. KARAKAYA V., Project Supported by Higher Education Institutions, Sabit Nokta Teorisi ve sezgisel Fuzzy normlu uzaylarda bazı uygulamaları, 2012 - 2014
5. KARAKAYA V., Project Supported by Higher Education Institutions, Bazı Yeni Sabit Nokta İterasyon yöntemlerinin Yakınsaklıklarının ve Kararlılıklarının İncelenmesi, 2012 - 2014
6. Karakaya V., Ertürk M., TUBITAK Project, Sezgisel Fuzzy (Intuitionistic Fuzzy) Normlu Uzaylarda Bazı Yeni Kavramlar ve Uygulamaları, 2011 - 2013
7. Karakaya V., Mursaleen M., TUBITAK Project, Sezgisel Fuzzy Uzaylarda Bazı Topolojik Kavramlar, 2010 - 2010
8. Karakaya V., Project Supported by Higher Education Institutions, Üst Üçgensel Çift Bant Matrislerinin Fine Spektrumu, 2009 - 2009
9. Karakaya V., TUBITAK Project, Dinamik Sistemler ve Kaos, 2008 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Variational Inequality Problem Involving Multivalued Nonexpansive Mapping in CAT(0) Spaces**
GÜRSOY F., Hacıoğlu E., KARAKAYA V., Milovanovic G., Uddin I.
RESULTS IN MATHEMATICS, vol.77, no.3, 2022 (SCI-Expanded)
2. **Controlling Chaos for Multistep Iteration Process and Its Special Iterations in Discrete Dynamical Systems**
SEKMAN D., KARAKAYA V.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.32, no.02, 2022 (SCI-Expanded)
3. **Fixed Point Theorems for Operators with Certain Condition in p-Uniformly Convex Metric Spaces**

- Knefati M., KARAKAYA V.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.43, no.16, pp.1884-1900, 2022 (SCI-Expanded)
4. **PICARD TYPE ITERATIVE METHOD WITH APPLICATIONS TO MINIMIZATION PROBLEMS AND SPLIT FEASIBILITY PROBLEMS**
Erturk M., GÜRSOY F., Ansari Q. H., KARAKAYA V.
JOURNAL OF NONLINEAR AND CONVEX ANALYSIS, vol.21, no.4, pp.943-951, 2020 (SCI-Expanded)
 5. **Coincidences of Nonself Operators by a Simpler Algorithm**
Gursoy F., Khan A. R., Erturk M., KARAKAYA V.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.41, no.2, pp.192-208, 2020 (SCI-Expanded)
 6. **An iterative method and its application to stable inversion**
Gursoy F., Eksteen J. J. A., Khan A. R., Karakaya V.
SOFT COMPUTING, vol.23, pp.7393-7406, 2019 (SCI-Expanded)
 7. **Weak w2-stability and data dependence of Mann iteration method in Hilbert spaces**
Guersoy F., Khan A. R., Erturk M., KARAKAYA V.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.113, no.1, pp.11-20, 2019 (SCI-Expanded)
 8. **ON BEHAVIOUR OF DARBO FIXED POINT THEOREM UNDER FUNCTION SEQUENCES**
KARAKAYA V., Sekman D., Simsek N.
JOURNAL OF NONLINEAR AND CONVEX ANALYSIS, vol.20, no.11, pp.2313-2319, 2019 (SCI-Expanded)
 9. **Approaches of linear operators in the intuitionistic fuzzy 2-Banach spaces**
KARAKAYA V., Erturk M.
LOGIC JOURNAL OF THE IGPL, vol.26, no.5, pp.453-463, 2018 (SCI-Expanded)
 10. **The local and semilocal convergence analysis of new Newton-like iteration methods**
KARAKAYA V., Dogan K., Atalan Y., BOUZARA N. E. H.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.3, pp.735-751, 2018 (SCI-Expanded)
 11. **Convergence and Data Dependency of Normal-S Iterative Method for Discontinuous Operators on Banach Space**
Gursoy F., KHAN A. R., Erturk M., KARAKAYA V.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.39, no.3, pp.322-345, 2018 (SCI-Expanded)
 12. **MODIFIED PICARD TYPE ITERATIVE ALGORITHM FOR NONEXPANSIVE MAPPINGS**
Erturk M., Gursoy F., Ansari Q. H., KARAKAYA V.
JOURNAL OF NONLINEAR AND CONVEX ANALYSIS, vol.19, no.6, pp.919-933, 2018 (SCI-Expanded)
 13. **n-Tuplet Coincidence Point Theorems in Partially Ordered Probabilistic Metric Spaces**
Karaaslan A. A., KARAKAYA V.
JOURNAL OF FUNCTION SPACES, vol.2018, 2018 (SCI-Expanded)
 14. **SOME FIXED POINT RESULTS FOR A NEW THREE STEPS ITERATION PROCESS IN BANACH SPACES**
KARAKAYA V., Atalan Y., Dogan K., Bouzara N. E. H.
FIXED POINT THEORY, vol.18, no.2, pp.625-640, 2017 (SCI-Expanded)
 15. **Existence and convergence for a new multivalued hybrid mapping in CAT(κ) spaces**
Hacioglu E., KARAKAYA V.
CARPATHIAN JOURNAL OF MATHEMATICS, vol.33, no.3, pp.319-326, 2017 (SCI-Expanded)
 16. **ITERATIVE SOLUTION OF FUNCTIONAL VOLTERRA-FREDHOLM INTEGRAL EQUATION WITH DEVIATING ARGUMENT**
Atalan Y., KARAKAYA V.
JOURNAL OF NONLINEAR AND CONVEX ANALYSIS, vol.18, no.4, pp.675-684, 2017 (SCI-Expanded)
 17. **ON FINE SPECTRA AND SUBSPECTRUM (APPROXIMATE POINT, DEFECT AND COMPRESSION) OF OPERATOR WITH PERIODIC COEFFICIENTS**
KARAKAYA V., Manafov M. D., Simsek N.
JOURNAL OF NONLINEAR AND CONVEX ANALYSIS, vol.18, no.4, pp.709-717, 2017 (SCI-Expanded)
 18. **CONVERGENCE AND DATA DEPENDENCE RESULTS FOR HEMICONTRACTIVE OPERATORS**
Erturk M., KHAN A. R., KARAKAYA V., Gursoy F.

- JOURNAL OF NONLINEAR AND CONVEX ANALYSIS, vol.18, no.4, pp.697-708, 2017 (SCI-Expanded)
19. **Operator ideal of s-type operators using weighted mean sequence space**
ERDOĞAN E., KARAKAYA V.
CARPATHIAN JOURNAL OF MATHEMATICS, vol.33, no.3, pp.311-318, 2017 (SCI-Expanded)
 20. **Jungck-Khan iterative scheme and higher convergence rate**
KHAN A. R., GURSOY F., KARAKAYA V.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.93, no.12, pp.2092-2105, 2016 (SCI-Expanded)
 21. **NOTES ON THE SPECTRAL PROPERTIES OF THE WEIGHTED MEAN DIFFERENCE OPERATOR $G(u, v; \Delta)$ OVER THE SEQUENCE SPACE $l(1)$**
KARAKAYA V., ERDOĞAN E.
ACTA MATHEMATICA SCIENTIA, vol.36, no.2, pp.477-486, 2016 (SCI-Expanded)
 22. **Notes on the spectral properties of the weighted mean difference operator $G(u, v; \delta)$ over the sequence space l_1**
KARAKAYA V., ERDOĞAN E.
Acta Mathematica Scientia, vol.36, no.2, pp.477-486, 2016 (SCI-Expanded)
 23. **New Matrix Domain Derived by the Matrix Product**
KARAKAYA V., SIMSEK N., DOĞAN K.
FILOMAT, vol.30, no.5, pp.1233-1241, 2016 (SCI-Expanded)
 24. **Some convergence and data dependence results for various fixed point iterative methods**
KARAKAYA V., GURSOY F., ERTÜRK M.
KUWAIT JOURNAL OF SCIENCE, vol.43, no.1, pp.112-128, 2016 (SCI-Expanded)
 25. **Operators ideals of generalized modular spaces of ceáro type defined by weighted means**
ŞİMŞEK N., KARAKAYA V., POLAT H.
Journal of Computational Analysis and Applications, vol.19, no.5, pp.804-811, 2015 (SCI-Expanded)
 26. **OPERATORS IDEALS OF GENERALIZED MODULAR SPACES OF CESARO TYPE DEFINED BY WEIGHTED MEANS**
SIMSEK N., KARAKAYA V., POLAT H.
JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.19, no.5, pp.804-811, 2015 (SCI-Expanded)
 27. **Korovkin type approximation theorems for weighted alpha beta-statistical convergence**
KARAKAYA V., KARAIŞA A.
BULLETIN OF MATHEMATICAL SCIENCES, vol.5, no.2, pp.159-169, 2015 (SCI-Expanded)
 28. **On Ideal Convergence of Sequences of Functions in Intuitionistic Fuzzy Normed Spaces**
KARAKAYA V., ŞİMŞEK N., ERTÜRK M., GURSOY F.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, no.5, pp.2307-2313, 2014 (SCI-Expanded)
 29. **ON SPECTRAL PROPERTIES OF A NEW OPERATOR OVER SEQUENCE SPACES c AND $c(0)$**
ERDOĞAN E., KARAKAYA V.
ACTA MATHEMATICA SCIENTIA, vol.34, no.5, pp.1481-1494, 2014 (SCI-Expanded)
 30. **Some geometric properties of a new difference sequence space defined by de la Vallee-Poussin mean**
ET M., KARAKAS M., KARAKAYA V.
APPLIED MATHEMATICS AND COMPUTATION, vol.234, pp.237-244, 2014 (SCI-Expanded)
 31. **Banach-Saks Type and Gurarii Modulus of Convexity of Some Banach Sequence Spaces**
HUDZIK H., KARAKAYA V., MURSAALEEN M., SIMSEK N.
ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)
 32. **A New Difference Sequence Set of Order α and Its Geometrical Properties**
ET M., KARAKAYA V.
ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)
 33. **Some Convergence and Stability Results for Two New Kirk Type Hybrid Fixed Point Iterative Algorithms**
GURSOY F., KARAKAYA V.
JOURNAL OF FUNCTION SPACES, 2014 (SCI-Expanded)

34. **On Cluster Points, Continuity, and Boundedness Associated with the Generalized Statistical Convergence in Probabilistic Normed Spaces**
Das P., Dutta K., KARAKAYA V.
ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)
35. **On Some Geometric Properties of a New Paranormed Sequence Space**
KARAKAYA V., Altun F.
JOURNAL OF FUNCTION SPACES, 2014 (SCI-Expanded)
36. **Some Convergence and Stability Results for the Kirk Multistep and Kirk-SP Fixed Point Iterative Algorithms**
Gursoy F. F., KARAKAYA V., Rhoades B. E.
ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)
37. **n-Tuplet Coincidence Point Theorems in Intuitionistic Fuzzy Normed Spaces**
Erturk M., KARAKAYA V.
JOURNAL OF FUNCTION SPACES, 2014 (SCI-Expanded)
38. **Lacunary statistical convergence of sequences of functions in intuitionistic fuzzy normed space**
KARAKAYA V., Simsek N., GURSOY F., ERTURK M.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.26, no.3, pp.1289-1299, 2014 (SCI-Expanded)
39. **Existence of Tripled Fixed Points for a Class of Condensing Operators in Banach Spaces**
KARAKAYA V., BOUZARA N. E. H., DOGAN K., ATALAN Y.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)
40. **On the Convergence and Stability Results for a New General Iterative Process**
Dogan K., KARAKAYA V.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)
41. **SOME GEOMETRIC PROPERTIES OF A NEW DIFFERENCE SEQUENCE SPACE INVOLVING LACUNARY SEQUENCES**
Karakas M., Et M., KARAKAYA V.
ACTA MATHEMATICA SCIENTIA, vol.33, no.6, pp.1711-1720, 2013 (SCI-Expanded)
42. **Some paranormed Euler sequence spaces of difference sequences of order m**
KARAKAYA V., Savas E., Polat H.
MATHEMATICA SLOVACA, vol.63, no.4, pp.849-862, 2013 (SCI-Expanded)
43. **Investigation of shielding properties of some boron compounds**
İÇELLİ O., Mann K. S., YALÇIN Z., Orak S., KARAKAYA V.
ANNALS OF NUCLEAR ENERGY, vol.55, pp.341-350, 2013 (SCI-Expanded)
44. **On Geometrical Properties of Some Banach Spaces**
Simsek N., Savas E., KARAKAYA V.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, no.1, pp.295-300, 2013 (SCI-Expanded)
45. **On Some Further Generalizations of Strong Convergence in Probabilistic Metric Spaces Using Ideals**
Das P., Dutta K., KARAKAYA V., Ghosal S.
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)
46. **Data Dependence Results for Multistep and CR Iterative Schemes in the Class of Contractive-Like Operators**
KARAKAYA V., Gursoy F., Dogan K., Erturk M.
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)
47. **n-tuplet fixed point theorems for contractive type mappings in partially ordered metric spaces**
Erturk M., KARAKAYA V.
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)
48. **Data dependence results of new multi-step and S-iterative schemes for contractive-like operators**
Gursoy F., KARAKAYA V., Rhoades B. E.
FIXED POINT THEORY AND APPLICATIONS, 2013 (SCI-Expanded)
49. **Fixed Point of a New Three-Step Iteration Algorithm under Contractive-Like Operators over Normed Spaces**

- KARAKAYA V., Doğan K., Gürsoy F., Ertürk M.
 ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)
50. **Weighted statistical convergence and its application to Korovkin type approximation theorem**
 Mursaleen M., Karakaya V., Erturk M., Gursoy F.
 APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.18, pp.9132-9137, 2012 (SCI-Expanded)
51. **On the fine spectrum of the second order difference operator over the sequence spaces $l(p)$ and $bv(p)$, ($1 < p < \infty$)**
 Karakaya V., Manafov M. D., Simsek N.
 MATHEMATICAL AND COMPUTER MODELLING, vol.55, pp.426-431, 2012 (SCI-Expanded)
52. **λ -Statistical Convergence of Sequences of Functions in Intuitionistic Fuzzy Normed Spaces**
 KARAKAYA V., Simsek N., Erturk M., Gursoy F.
 JOURNAL OF FUNCTION SPACES AND APPLICATIONS, 2012 (SCI-Expanded)
53. **On Some Properties of New Paranormed Sequence Space of Nonabsolute Type**
 KARAKAYA V., Simsek N.
 ABSTRACT AND APPLIED ANALYSIS, 2012 (SCI-Expanded)
54. **Statistical Convergence of Sequences of Functions in Intuitionistic Fuzzy Normed Spaces**
 KARAKAYA V., Simsek N., Erturk M., Gursoy F.
 ABSTRACT AND APPLIED ANALYSIS, 2012 (SCI-Expanded)
55. **ON SOME VECTOR VALUED GENERALIZED DIFFERENCE MODULAR SEQUENCE SPACES**
 KARAKAYA V., Dutta H.
 FILOMAT, vol.25, no.3, pp.15-27, 2011 (SCI-Expanded)
56. **On paranormed λ -sequence spaces of non-absolute type**
 KARAKAYA V., Noman A., Polat H.
 MATHEMATICAL AND COMPUTER MODELLING, vol.54, pp.1473-1480, 2011 (SCI-Expanded)
57. **Measure of noncompactness of matrix operators on some difference sequence spaces of weighted means**
 Mursaleen M., KARAKAYA V., Polat H., Şimşek N.
 COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.62, no.2, pp.814-820, 2011 (SCI-Expanded)
58. **Difference sequence spaces derived by using a generalized weighted mean**
 Polat H., KARAKAYA V., Şimşek N.
 APPLIED MATHEMATICS LETTERS, vol.24, no.5, pp.608-614, 2011 (SCI-Expanded)
59. **On almost p -bounded variation of lacunary sequences**
 KARAKAYA V., Savaş E.
 COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.61, no.6, pp.1502-1506, 2011 (SCI-Expanded)
60. **Some new paranormed sequence spaces defined by Euler and difference operators**
 KARAKAYA V., Polat H.
 Acta Scientiarum Mathematicarum, vol.76, pp.87-100, 2010 (SCI-Expanded)
61. **SOME GEOMETRIC AND TOPOLOGICAL PROPERTIES OF A NEW SEQUENCE SPACE DEFINED BY DE LA VALLEE-POUSSIN MEAN**
 Simsek N., Savas E., KARAKAYA V.
 JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.12, no.4, pp.768-779, 2010 (SCI-Expanded)
62. **Fine spectra of upper triangular double-band matrices**
 KARAKAYA V., Altun M.
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.234, no.5, pp.1387-1394, 2010 (SCI-Expanded)
63. **Schauder Basis, Separability, and Approximation Property in Intuitionistic Fuzzy Normed Space**
 Mursaleen M., KARAKAYA V., Mohiuddine S.
 ABSTRACT AND APPLIED ANALYSIS, 2010 (SCI-Expanded)
64. **WEIGHTED STATISTICAL CONVERGENCE**
 Karakaya V., Chishti T.
 IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.33, pp.219-223, 2009 (SCI-Expanded)

65. **Some $l(p)$ -Type New Sequence Spaces and Their Geometric Properties**
Savas E., KARAKAYA V., Şimşek N.
ABSTRACT AND APPLIED ANALYSIS, 2009 (SCI-Expanded)
66. **On Some Geometrical Properties of Generalized Modular Spaces of Cesaro Type Defined by Weighted Means**
Simsek N., Şimşek N., KARAKAYA V.
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2009 (SCI-Expanded)
67. **Some new sequence spaces defined by lacunary sequences**
Savas E., Karakaya V.
MATHEMATICA SLOVACA, vol.57, no.4, pp.393-399, 2007 (SCI-Expanded)
68. **Some geometric properties of sequence spaces involving lacunary sequence**
KARAKAYA V.
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2007 (SCI-Expanded)
69. **Some new sequence spaces defined by a sequence of Orlicz functions**
KARAKAYA V.
TAIWANESE JOURNAL OF MATHEMATICS, vol.9, no.4, pp.617-627, 2005 (SCI-Expanded)
70. **On lacunary sigma-statistical convergence**
KARAKAYA V.
INFORMATION SCIENCES, vol.166, pp.271-280, 2004 (SCI-Expanded)
71. **On lacunary invariant sequence spaces defined by a sequence of modulus functions**
KARAKAYA V., Şimşek N.
APPLIED MATHEMATICS AND COMPUTATION, vol.156, no.3, pp.597-603, 2004 (SCI-Expanded)

Articles Published in Other Journals

1. **APPROXIMATE FIXED POINT PROPERTY IN IFNS**
ERTÜRK M., KARAKAYA V., Mursaleen M.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.12, no.1, pp.329-346, 2022 (ESCI)
2. **Convergence of Jungck-Kirk Type Iteration Method with Applications**
MALDAR S., KARAKAYA V.
PUNJAB UNIVERSITY JOURNAL OF MATHEMATICS, vol.54, no.2, pp.75-87, 2022 (ESCI)
3. **A NEW TYPE OF CONTRACTION VIA MEASURE OF NON-COMPACTNESS WITH AN APPLICATION TO VOLTERRA INTEGRAL EQUATION**
KARAKAYA V., SEKMAN D.
PUBLICATIONS DE L INSTITUT MATHEMATIQUE-BEOGRAD, vol.111, no.125, pp.111-121, 2022 (ESCI)
4. **On Modeling of the Mathematical Objects from the Philosophy of Mathematics**
KARAKAYA V.
BEYTULHIKME-AN INTERNATIONAL JOURNAL OF PHILOSOPHY, vol.11, no.3, pp.1143-1156, 2021 (ESCI)
5. **Some Fixed Point Results for a New Multivalued Hybrid Mapping in Geodesic Spaces**
HACIOĞLU E., KARAKAYA V.
THAI JOURNAL OF MATHEMATICS, vol.19, no.2, pp.571-581, 2021 (ESCI)
6. **On F-Weak Contraction of Generalized Multivalued Integral Type Mappings with alpha-admissible**
KARAKAYA V., ŞİMŞEK N., SEKMAN D.
SAHAND COMMUNICATIONS IN MATHEMATICAL ANALYSIS, vol.17, no.1, pp.57-67, 2020 (ESCI)
7. **An Example of Data Dependence Result for The Class of Almost Contraction Mappings**
Atalan Y., KARAKAYA V.
SAHAND COMMUNICATIONS IN MATHEMATICAL ANALYSIS, vol.17, no.1, pp.139-155, 2020 (ESCI)
8. **An application of function sequences to the Darbo's theorem with integral type transformations**
KARAKAYA V., SEKMAN D.
Journal of Mathematical Extension, vol.14, no.4, 2020 (ESCI)

9. **SOME FIXED POINT RESULTS IN THE GENERALIZED CONVEX METRIC SPACES**
Doğan K., Gürsoy F., Karakaya V.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.10, no.1, pp.11-23, 2020 (ESCI)
10. **SOME NEW RESULTS ON CONVERGENCE, STABILITY AND DATA DEPENDENCE IN n -NORMED SPACES**
Dogan K., Gursoy F., KARAKAYA V., Khan S. H.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.69, no.1, pp.112-122, 2020 (ESCI)
11. **Obtaining new fixed point theorems by using generalized Banach-Contraction Principle**
Atalan Y., Karakaya V.
Erciyes University Journal of Institute of Science and Technology, vol.35, no.3, pp.34-45, 2019 (Peer-Reviewed Journal)
12. **SOME FIXED POINT RESULTS FOR CONTINUOUS FUNCTIONS ON AN ARBITRARY INTERVALS**
Dogan K., Gursoy F., KARAKAYA V.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, no.3, pp.755-767, 2019 (ESCI)
13. **MEASURE OF NONCOMPACTNESS IN THE STUDY OF SOLUTIONS FOR A SYSTEM OF INTEGRAL EQUATIONS**
KARAKAYA V., Mursaleen M., Bouzara N. E. H., Sekman D.
JOURNAL OF THE INDONESIAN MATHEMATICAL SOCIETY, vol.25, no.1, pp.62-74, 2019 (ESCI)
14. **ANALYTICAL AND NUMERICAL ASPECT OF COINCIDENCE POINT PROBLEM OF QUASI-CONTRACTIVE OPERATORS**
Gursoy F., Erturk M., Khan A. R., KARAKAYA V.
PUBLICATIONS DE L INSTITUT MATHEMATIQUE-BEOGRAD, vol.105, no.119, pp.101-121, 2019 (ESCI)
15. **ON THE F -CONTRACTION PROPERTIES OF MULTIVALUED INTEGRAL TYPE TRANSFORMATIONS**
Sekman D., KARAKAYA V.
METHODS OF FUNCTIONAL ANALYSIS AND TOPOLOGY, vol.25, no.3, pp.282-288, 2019 (ESCI)
16. **INVESTIGATION OF SOME FIXED POINT THEOREMS IN HYPERBOLIC SPACES FOR A THREE STEP ITERATION PROCESS**
Atalan Y., KARAKAYA V.
KOREAN JOURNAL OF MATHEMATICS, vol.27, no.4, pp.929-947, 2019 (ESCI)
17. **A STUDY IN THE FIXED POINT THEORY FOR A NEW ITERATIVE SCHEME AND A CLASS OF GENERALIZED MAPPINGS**
Doğan K., Karakaya V.
Creative Mathematics and Informatics, vol.27, no.2, pp.151-160, 2018 (Peer-Reviewed Journal)
18. **Some Fixed Point Results for A Multivalued Generalization of Generalized Hybrid Mappings in $CAT(\kappa)$ -Spaces**
Hacıoğlu E., Karakaya V.
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19. **ON DIFFERENT TYPE OF FIXED POINT THEOREM FOR MULTIVALUED MAPPINGS VIA MEASURE OF NONCOMPACTNESS**
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87. **On Fine Spectra and Subspectrum Of Operator With Periodic Coefficients**
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International Mathematics Symposium, Çankırı, Turkey, 11 - 13 June 2014, pp.1-3
88. **Bazı Dizi Uzaylarındaki Spektral Analiz**
ERDOĞAN E., KARAKAYA V.
I. Kadın Matematikçiler Derneği Çalıştayı (TKMD), Turkey, 2 - 04 May 2014
89. **Feigenbaum Dönüşümü için Giriş Zamanları**
KARAASLAN A. A., KARAKAYA V.
I. Kadın Matematikçiler Çalıştayı, Turkey, 2 - 04 May 2014
90. **Convergence Analysis for Various Iterative Procedures and a Data Dependence Result**
KARAKAYA V., ATALAN Y.
international Conference on Recent Trends in Algebra and Analysis With Applications (ICRTAAA-2014), Aligarh, India, 12 - 14 February 2014
91. **Comparison of The Speed of Convergence Among Various Iterative Schemes**

GÜRSOY F., KARAKAYA V., ERTÜRK M.

International Conference on Recent Trends in Algebra and Analysis with Applications, Aligarh, India, 12 - 14 February 2014

92. **A New Sequence Space with It'xxs Opial, K-Nuc and Rotund Property**
KARAKAYA V., POLAT H.
International Conference on Recent Trends in Algebra and Analysis with Applications, Aligarh, India, 12 - 14 February 2014
93. **The spectral applications of Beer-Lambert law for some biological and dosimetric materials**
İÇELLİ O., YALÇIN Z., KARAKAYA V., ILGAZ I. P.
2nd International Conference on Analysis and Applied Mathematics (ICAAM), Shymkent, Kazakhstan, 11 - 13 September 2014, vol.1611, pp.199-203
94. **Convergence and Stability Results for Some New Kirk Type Hybrid Fixed Point Iterative Algorithms**
GÜRSOY F., KARAKAYA V.
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 September 2013
95. **n-Tuplet Fixed Point Theorems in Partially Ordered Metric Space**
KARAKAYA V., ERTÜRK M.
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013
96. **Approximate Fixed Point Property in Intuitionistic Fuzzy Normed Space**
ERTÜRK M., KARAKAYA V.
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013
97. **Operators Ideal of Generalized Modular Spaces of Cesaro Type Defined by Weighted Means**
ŞİMŞEK N., KARAKAYA V., POLAT H.
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013
98. **n-Tuplet Fixed Point Theorems in Partially Ordered Metric Space**
KARAKAYA V., Ertürk M.
2nd International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2013), 01 August 2013
99. **Convergence results for Jungck SP and Jungck Noor type iteration algorithms in convex metric spaces**
DOĞAN K., KARAKAYA V., GÜRSOY F., ERTÜRK M.
International Conference on Applied Analysis and Mathematical Modeling(ICAAMM-2013), 2 - 05 June 2013
100. **Convergence and stability results for a new general iterative process**
DOĞAN K., KARAKAYA V.
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM-2013), 2 - 05 June 2013
101. **Some Convergence Results For Jungck Noor and Jungck Thianwan Hybrid Type Iterative Procedures**
GÜRSOY F., KARAKAYA V., DOĞAN K., ERTÜRK M.
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2013, 2 - 05 June 2013
102. **n-Tuplet Fixed Point Theorems in Intuitionistic Fuzzy Normed Spaces**
KARAKAYA V.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 2 - 03 June 2013
103. **On The Convergence Of A New Iterative Scheme For The Class of Contractive Like Operators**
DOĞAN K., KARAKAYA V., ERTÜRK M., GÜRSOY F.
International Conference On Mathematical Sciences and Statistics, Kuala-Lumpur, Malaysia, 5 - 08 February 2013
104. **Some convergence and stability results for Kirk Multistep and Kirk-SP fixed point algorithms when dealing with contractive-like operators in normed linear space**
GÜRSOY F., KARAKAYA V., RHOADES B. E.
International Conference On Mathematical Sciences and Statistics, Kuala-Lumpur, Malaysia, 5 - 08 February 2013

105. **Data Dependence Of Multistep And CR Iterative Schemes In The Class Of Contractive Like Operators**
KARAKAYA V., GÜRSOY F., DOĞAN K., ERTÜRK M.
International Conference On Mathematical Sciences And Statistics 2013 (ICMSS 2013), 5 - 07 February 2013
106. **Fixed Points of Quasi Contractive Type Operators in Normed Spaces by a Three step iteration process**
DOĞAN K., KARAKAYA V., GÜRSOY F., ERTÜRK M.
International Conference On Mathematical Sciences And Statistics 2013 (ICMSS 2013), 5 - 07 February 2013
107. **On Some New Paranormed SEQUENCE Spaces Of Non Absolute Type**
KARAASLAN A. A., KARAKAYA V.
International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2012), 3 - 07 September 2012
108. **The Spectrum of Matrix Operators on a Difference Sequence Space of Weighted Means**
ERDOĞAN E., KARAKAYA V.
International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2012), 3 - 07 September 2012
109. **The Fine Spectra of a New Operator W on Sequence Space c_0**
ERDOĞAN E., KARAKAYA V.
International Conference on Applied Analysis and Application(ICAAA-2012), İstanbul, Turkey, 19 - 24 June 2012
110. **On Some Geometric Properties of an New Paranormed Sequence Space**
ALTUN F., KARAKAYA V.
International Conference on Applied Analysis and Application(ICAAA-2012), 19 - 24 June 2012
111. **On the Ideal Convergence of Function Sequence in Intuitionistic Fuzzy Normed Spaces**
KARAKAYA V., Şimşek N., Ertürk M., Gürsoy F.
International Conference on Analysis and Its Applications(ICAA-11), 01 November 2011
112. **Convergence Analysis for Various Iterative Procedures and a Data Dependence Result**
KARAKAYA V., Atalan Y.
International Conference on Recent Trends in Algebra and Analysis With Applications (ICRTAAA-2014)

Academic and Administrative Experience

2015 - Continues	Rector	Kırşehir Ahi Evran University
2015 - Continues	ÜAK DK Üyesi	
2016 - 2019	Dean	Kırşehir Ahi Evran University, Faculty Of Islamic Sciences
2015 - 2015	Head of Department	Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering
2014 - 2015	Fakülte Yönetim Kurulu Üyesi	Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING
2014 - 2015	Rektörlük Stratejik Plan Komisyonu Üyesi	Yildiz Technical University, Rectorate
2013 - 2015	Member of ADEK Commission	Yildiz Technical University, Rectorate
2010 - 2015	Rektörlük Kalite Komisyonu Üyesi	Yildiz Technical University, Rectorate

2009 - 2015	Head of Department	Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering
2012 - 2013	Assistant Director of the Institute	Yildiz Technical University, Graduate School of Natural and Applied Sciences
2009 - 2009	Fakülte Kurulu Üyesi	Adiyaman University, Faculty Of Economics And Administrative Sciences
2009 - 2009	Fakülte Yönetim Kurulu Üyesi	Adiyaman University, Faculty Of Economics And Administrative Sciences
2008 - 2009	Member of ADEK Commission	Adiyaman University, Rectorate
2008 - 2009	Fakülte Kurulu Üyesi	Adiyaman University, Faculty Of Education
2008 - 2009	Fakülte Yönetim Kurulu Üyesi	Adiyaman University, Faculty Of Education
2008 - 2009	Rektörlük Stratejik Plan Komisyonu Üyesi	Adiyaman University, Rectorate
2007 - 2009	Director of The Institution	Adiyaman University, Institute Of Science
2007 - 2009	Member of the Senate	Adiyaman University
2007 - 2009	BAP Scientific Commissioner	Adiyaman University, Rectorate
2007 - 2009	Scientific Award Committee Member	Adiyaman University, Rectorate
2005 - 2009	Meslek Yüksekokulu Yönetim Kurulu Üyesi	Adiyaman University, Gölbaşı Vocational School
2007 - 2007	Vice Dean	Adiyaman University, Faculty Of Education
2005 - 2007	Head of Department	Adiyaman University, Faculty Of Education, Department Of Mathematics And Science Teaching
2005 - 2007	Head of Department	Adiyaman University, Faculty Of Education, Department Of Primary School

Advising Theses

Karakaya V., Geometric Properties of Banach Spaces and Some Applications, Doctorate, M.Knefati(Student), Continues
Karakaya V., Olasılıksal Uzaylarda Sabit Nokta Teori ve Uygulamaları, Doctorate, A.Aysun(Student), Continues
Karakaya V., Kontrol Sistemi Olarak Sabit Nokta İterasyonları ve Kaotik Diskrit Dinamik Sistemler, Doctorate, D.Sekman(Student), Continues
Karakaya V., Küme Değerli Sabit Nokta Dönüşümleri ve İterasyonları, Doctorate, E.Hacıoğlu(Student), 2018
Karakaya V., Sabit Nokta Yaklaşımlarıyla Bazı Diferansiyel ve Integral Denklemlerin Çözümleri, Doctorate, Y.Atalan(Student), 2017

Karakaya V., Banach Uzaylarında İç Noktalarda Başlangıç Şartlarına Sahip Kesir Mertebeli Diferansiyel Denklemler, Postgraduate, A.Soyal(Student), 2017

Karakaya V., On Fixed Point Theorems for Single and Multivalued Mappings and Applications to Differential Problems, Doctorate, N.Bouzara(Student), 2016

Karakaya V., Farklı Dönüşümler Altında Sabit Nokta Davranışlarının İncelenmesi, Doctorate, A.Maldar(Student), 2016

Karakaya V., Bazı Geometrik Özellikler ve Sabit Nokta İterasyonları, Doctorate, K.Doğan(Student), 2016

Karakaya V., Some Iteration Types and Weighted Mean Matrix, Postgraduate, D.Sekman(Student), 2015

Karakaya V., m. Dereceden Genelleştirilmiş Fark Matrisinin Bazı Dizi Uzaylarında Spektrumu, Postgraduate, S.Elmacı(Student), 2015

Karakaya V., Sabit Nokta Teorisi ve Sezgisel Fuzzy Normlu Uzaylarda Bazı Uygulamaları, Doctorate, M.Ertürk(Student), 2014

İçelli O., Karakaya V., Fizikte bazı spektral uygulamalar, Postgraduate, I.Pakize(Student), 2014

Karakaya V., Bazı Yeni Sabit Nokta İterasyon Yöntemlerinin Yakınsaklıklarının ve Kararlılıklarının İncelenmesi, Doctorate, F.Gürsoy(Student), 2014

Karakaya V., Belirli Dizi Uzaylarının Her Yönde Düzgün Konveks Yapısı ve Bazı Geometrik Özellikleri, Postgraduate, N.Kuru(Student), 2013

Karakaya V., Feigenbaum Dönüşümü İçin Giriş Zamanları, Postgraduate, A.Karaaslan(Student), 2013

Karakaya V., Yeni Bir Operatörün Bazı Uzaylardaki Spektral Analizi, Postgraduate, E.Erdoğan(Student), 2013

Karakaya V., Banach Uzaylarında Bazı Geometrik Kavramlar, Postgraduate, F.Altun(Student), 2012

Memberships / Tasks in Scientific Organizations

Lise Öğretmenlerine Yönelik Olimpiyat İleri Matematik- IV. Kademe Eğitimi Çalıştay/ İstanbul (TÜBİTAK), Consultant, 2014 - 2014

Lise Öğretmenlerine Yönelik Olimpiyat İleri Matematik- III. Kademe Eğitimi Çalıştay/ Antalya (TÜBİTAK), Consultant, 2013 - 2013

Lise Öğretmenlerine Yönelik Olimpiyat İleri Matematik- II. Kademe Eğitimi Çalıştay / İstanbul (TÜBİTAK) , Consultant, 2012 - 2012

Lise Öğretmenlerine Yönelik Olimpiyat İleri Matematik- I. Kademe Eğitimi Çalıştay/ İstanbul (TÜBİTAK) , Consultant, 2011 - 2011

Eğitimcilerin Eğitimi Çalıştay- Eğitimde Proje Danışmanlığı/ Adıyaman (TÜBİTAK), Consultant, 2008 - 2009

Eğitimcilerin Eğitimi Çalıştay- Eğitimde Proje Danışmanlığı/ Erzincan (TÜBİTAK), Consultant, 2008 - 2008

Eğitimcilerin Eğitimi Çalıştay- Eğitimde Proje Danışmanlığı/ Batman (TÜBİTAK), Consultant, 2008 - 2008

Yenilenen İlköğretim Programı Paylaşım Seminerleri/ Ankara (MEB), Consultant, 2006 - 2006

Scientific Refereeing

MULTIPLIERS FOR BOUNDED I2-CONVERGENT OF DOUBLE SEQUENCES, SCI Journal, September 2011

On a Class of n-normed Generalized Difference Sequences Related to the l_p -Space Defined by Orlicz Function, SCI Journal, September 2011

Statistical approximation properties of modified q-Stancu-Beta operators, SCI Journal, September 2011

SOME GEOMETRIC PROPERTIES OF LACUNARY SEQUENCE SPACES RELATED TO FIXED POINT PROPERTY, SCI Journal, August 2011

\Notes on the Spectrum of Lower Triangular Double-Band Matrices, SCI Journal, July 2011

On the fine spectrum of generalized upper double-band matrices Δ_{uv} over the sequence space l_1 , SCI Journal, January 2011

Some approximations over cone locally convex complete spaces and summability, SCI Journal, October 2010

On Sigma-conservative matrices and compact operators on the space V_σ , SCI Journal, March 2010

SOME SEQUENCE SPACES OF INVARIANT MEANS DEFINED BY MODULUS FUNCTION, SCI Journal, February 2010

On compact operators and some Euler B(m)-difference sequence spaces, SCI Journal, November 2009

\Some sequence spaces of invariant means defined by modulus function, SCI Journal, May 2009

Equivalence of methods for the summation of double sequence, SCI Journal, April 2007

Mobility Activity

Research Scholarship Program, Guest Researcher, Indiana University Bloomington, United States Of America, 2010 - 2011

Metrics

Publication: 229

Citation (WoS): 744

Citation (Scopus): 799

H-Index (WoS): 15

H-Index (Scopus): 15

Invited Talks

Geçmişimizden İlhamla Geleceği İnşa Etmek, Conference, Şule Yüksel Şenler Kız Anadolu İmam Hatip Lisesi, Turkey, January 2020

Düşünce Tarihi ve Fuat Sezgin, Conference, Özel Kırşehir Anadolu Lisesi, Turkey, December 2019

Düşünce Tarihimiz ve Fuat Sezgin , Conference, Beyoğlu Anadolu İmam Hatip Lisesi, Turkey, December 2019

Matematiksel Düşünce Üzerine, Conference, Ege Üniversitesi, Turkey, December 2019

Varlık Algısı ve Eğitim, Conference, Ekonomik ve Sosyal Araştırmalar Merkezi, Turkey, December 2019

Prof. Dr. Fuat Sezgin Bakışıyla Matematiksel Düşüncenin Tarihi, Conference, "Müslüman Bilim Adamlarının Bilim ve Teknolojiye Katkıları" Paneli, Azerbaijan, November 2019

Nesiller Mimari Olarak Öğretmenler, Conference, Alanya Alaaddin Keykubat Üniversitesi, Turkey, November 2019

Hukuk ve Mantık, Conference, Türkiye Adalet Akademisi, Turkey, October 2019

Yükseköğretim ve Nitelikli Gençlik, Conference, Harran Üniversitesi, Turkey, September 2019

Prof. Dr. Fuat Sezgin Bakışıyla İslam Bilim Tarihinde Bilim ve Teknik, Conference, Malatya Fen Lisesi, Turkey, April 2019

Günümüz Eğitim Sisteminin İhtiyaç Duyduğu Eğitici Modeli, Conference, Niğde Ömer Halisdemir Üniversitesi, Turkey, March 2019

Matematik ve Metafizik Düşünce İlişkisi, Conference, Kırşehir Ahi Evran Üniversitesi, Turkey, February 2019

İbn-i Sina Metafiziği, Conference, Kırşehir Ahi Evran Üniversitesi, Turkey, February 2019

İbn-i Sina'nın Metafizik Anlayışından Modern Matematiğe Bir Bakış, Conference, Yıldız Teknik Üniversitesi, Turkey, December 2018

Bir Matematikçi Gözünden Varlık ve Hayat, Conference, Kalıcı Değerler ve Maarif Vakfı, Turkey, December 2018

Küresel Boyutlarıyla Türkiye Ekonomisi ve Yükseköğretimin Geleceği, Workshop, Siirt Üniversitesi, Turkey, May 2018

Matematik Ders Kitapları Kavram Algıları ve Yanılgıları, Conference, Yıldız Teknik Üniversitesi, Turkey, April 2018

Evrenin Mantıksal Dili Matematik, Conference, Kırşehir Ahi Evran Üniversitesi, Turkey, March 2018

Evrenin Mantıksal Dili Matematik, Conference, Ege Üniversitesi, Turkey, February 2018

Kudüs'e Evrensel Bakış Çalıştayı, Workshop, Sivas Cumhuriyet Üniversitesi, Turkey, December 2017

Yetmiş İnsan Problemimiz ve Eğitimin Gücü, Conference, Ekonomik ve Sosyal Araştırmalar Merkezi, Turkey, December 2017

Matematik Öğretimi ve Bilimsel Düşünce İlişkisi, Conference, Kırşehir Ahi Evran Üniversitesi, Turkey, November 2017

Matematiğin Günlük Hayatımızdaki Kullanım Yeri, Conference, Kahramanmaraş Elbistan Fen Lisesi, Turkey, March 2017

Türk Üniversitelerindeki Bilimsel Çalışmalar, Conference, Adıyaman Üniversitesi, Turkey, May 2014

Research Areas

Mathematics, Dynamic Systems and Ergodic Theory, Sequences, Series, Summability, Functional Analysis, Mathematical Logic and Foundations, Mathematics Education, Operators