

# Prof. Murat ÖZDEMİR

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Matematik, Turkey 1990 - 1994

## Foreign Languages

English, B1 Intermediate

## Dissertations

Doctorate, ESAS GRUPLARIN DEMETLERİNİN SINIFLANDIRILMASI, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 1994

Postgraduate, GRUP GRAFİKLERİ, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 1990

## Research Areas

Mathematics, Functional Analysis, Operators, Natural Sciences

## Academic Titles / Tasks

Assistant Professor, Ataturk University, Fen Fakültesi, Matematik, 1995 - 2005

## Academic and Administrative Experience

Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2002 - Continues

Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2014 - 2017

Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2005 - 2011

## Courses

Analiz III, Undergraduate, 2023 - 2024

Genel Matematik I, Undergraduate, 2023 - 2024  
İleri Fonksiyonel Analiz I, Doctorate, 2023 - 2024  
Matematik I, Undergraduate, 2023 - 2024  
Latex Yazılımı, Postgraduate, 2017 - 2018  
Analiz-III, Undergraduate, 2017 - 2018  
Nonlineer ve Konveks Analiz-I, Doctorate, 2017 - 2018

## Advising Theses

Özdemir M., Coupled Fixed Point Theorems For C-Class Functions, Postgraduate, R.AKDEMİR(Student), 2022  
Özdemir M., Image Restoration With Fixed Point Techniques, Postgraduate, M.Anıl(Student), 2022  
Özdemir M., Zamfirescu Dönüşümünün Bazı Genelleştirmeleri, Postgraduate, H.ERGÜL(Student), 2018  
ÖZDEMİR M., Genişlemeyen Dönüşümler İçin Sabit Nokta Yaklaşım Metotları Ve Varyasyonel Eşitsizlik Problemleri, Doctorate, İ.Karahan(Student), 2015  
ÖZDEMİR M., DÜZGÜN QUASI-LIPSCHITZIAN DÖNÜŞÜMLERİN SONSUZ AİLELERİNİN ORTAK SABİT NOKTALARINA YENİ YAKLAŞIM METOTLARI, Doctorate, S.Elmas(Student), 2014  
Özdemir M., Metrik ve Modüler Metrik Uzaylarda Daraltan Tipli Dönüşümler için Sabit Nokta Teoremleri, Doctorate, M.ÖZKAN(Student), 2014  
ÖZDEMİR M., Özel Dönüşüm Sınıflarının Ortak Sabit Noktalarına S-Tipi İterativ Yaklaşımlar, Doctorate, E.Türkmen(Student), 2013  
ÖZDEMİR M., Asimptotik Genişlemeyen Dönüşümlerin Ortak Sabit Noktaları İçin Yeni Yaklaşım Metotları, Doctorate, İ.Yıldırım(Student), 2011  
ÖZDEMİR M., Sabit Nokta İterasyonlarının Yakınsama Hızları, Postgraduate, S.Elmas(Student), 2010  
ÖZDEMİR M., Metrik Uzayda Sabit Nokta Teoremleri ve Uygulamaları, Postgraduate, C.Ünlü(Student), 2004

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Two generalized non-monotone explicit strongly convergent extragradient methods for solving pseudomonotone equilibrium problems and applications**  
Rehman H. u., Kumam P., ÖZDEMİR M., Karahan I.  
Mathematics and Computers in Simulation, vol.201, pp.616-639, 2022 (SCI-Expanded)
- II. **AN INERTIAL NON-MONOTONIC SELF-ADAPTIVE ITERATIVE ALGORITHM FOR SOLVING EQUILIBRIUM PROBLEMS**  
Rehman H. U., Kumam P., Shehu Y., Ozdemir M., Kumam W.  
JOURNAL OF NONLINEAR AND VARIATIONAL ANALYSIS, vol.6, no.1, pp.51-67, 2022 (SCI-Expanded)
- III. **Three novel inertial explicit Tseng's extragradient methods for solving pseudomonotone variational inequalities**  
Rehman H. U., Kumam P., ÖZDEMİR M., Argyros I. K., Kumam W.  
OPTIMIZATION, vol.71, no.16, pp.4697-4730, 2022 (SCI-Expanded)
- IV. **On Pata Convex-Type Contractive Mappings**  
AKTAY M., ÖZDEMİR M.  
Journal of Function Spaces, vol.2022, 2022 (SCI-Expanded)
- V. **Some Results on Generalized Pata-Suzuki Type Contractive Mappings**  
Aktay M., Özdemir M.  
JOURNAL OF MATHEMATICS, vol.2021, 2021 (SCI-Expanded)
- VI. **The common solution for a generalized equilibrium problem, a variational inequality problem and a hierarchical fixed point problem**  
Karahan I., SEÇER A., ÖZDEMİR M., BAYRAM M.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2015 (SCI-Expanded)

- VII. **Convergence Theorems for Hierarchical Fixed Point Problems and Variational Inequalities**  
Karahan I, ÖZDEMİR M.  
JOURNAL OF APPLIED MATHEMATICS, 2014 (SCI-Expanded)
- VIII. **Fixed point problems of the Picard-Mann hybrid iterative process for continuous functions on an arbitrary interval**  
KARAHAN İ., ÖZDEMİR M.  
FIXED POINT THEORY AND APPLICATIONS, 2013 (SCI-Expanded)
- IX. **Picard Iteration Converges faster than Noor Iteration for a Class of Quasi-Contractive Operators**  
AKBULUT S., ÖZDEMİR M.  
CHIANG MAI JOURNAL OF SCIENCE, vol.39, no.4, pp.688-692, 2012 (SCI-Expanded)
- X. **An iteration process for common fixed points of two nonself asymptotically nonexpansive mappings**  
AKBULUT S., Khan S. H., ÖZDEMİR M.  
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.20, no.1, pp.15-30, 2012 (SCI-Expanded)
- XI. **Determination of genetic distance between Turkish sheep breeds with various methods using some blood protein loci**  
Özdemir M., Bilgin Ö. C., Esenbuğa N.  
Journal of Animal and Plant Sciences, vol.21, no.3, pp.459-464, 2011 (SCI-Expanded)
- XII. **Weak and strong convergence of an implicit iteration process in uniformly convex banach spaces**  
YILDIRIM İ., ÖZDEMİR M.  
Numerical Functional Analysis and Optimization, vol.32, no.6, pp.682-694, 2011 (SCI-Expanded)
- XIII. **Convergence of a generalized iteration process for two finite families of Lipschitzian pseudocontractive mappings**  
KHAN S. H., YILDIRIM İ., ÖZDEMİR M.  
Mathematical and Computer Modelling, vol.53, pp.707-715, 2011 (SCI-Expanded)
- XIV. **Approximating common fixed points of asymptotically quasi-nonexpansive mappings by a new iterative process**  
YILDIRIM İ., ÖZDEMİR M.  
Arabian Journal for Science and Engineering, vol.36, no.3, pp.393-403, 2011 (SCI-Expanded)
- XV. **Iterative Approximation of Common Fixed Points of Two Nonself Asymptotically Nonexpansive Mappings**  
TÜRKMEN E., KHAN S. H., ÖZDEMİR M.  
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2011 (SCI-Expanded)
- XVI. **COMMON FIXED POINTS FOR TWO NONEXPANSIVE NONSELF-MAPPINGS WITH ERRORS IN BANACH SPACES**  
KIZILTUNÇ H., ÖZDEMİR M., AKBULUT S.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.35, pp.215-224, 2010 (SCI-Expanded)
- XVII. **Convergence of an implicit algorithm for two families of nonexpansive mappings**  
KHAN S. H., YILDIRIM İ., ÖZDEMİR M.  
Computers and Mathematics with Applications, vol.59, no.9, pp.3084-3091, 2010 (SCI-Expanded)
- XVIII. **STRONG CONVERGENCE OF AN IMPLICIT ITERATION PROCESS FOR TWO ASYMPTOTICALLY NONEXPANSIVE MAPPINGS IN BANACH SPACES**  
Wang L., YILDIRIM İ., ÖZDEMİR M.  
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.18, no.2, pp.281-294, 2010 (SCI-Expanded)
- XIX. **Convergence Theorems on a New Iteration Process for Two Asymptotically Nonexpansive Nonself-Mappings with Errors in Banach Spaces**  
ÖZDEMİR M., AKBULUT S., KIZILTUNÇ H.  
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2010 (SCI-Expanded)
- XX. **A new iterative process for common fixed points of finite families of non-self-asymptotically non-expansive mappings**

YILDIRIM İ., ÖZDEMİR M.

Nonlinear Analysis, Theory, Methods and Applications, vol.71, pp.991-999, 2009 (SCI-Expanded)

**XXI. On Common Fixed Points of Two Non self Nonexpansive Mappings in Banach Spaces**

KIZILTUNÇ H., ÖZDEMİR M., AKBULUT S.

Chiang Mai Journal Of Science, vol.34, pp.281-288, 2007 (SCI-Expanded)

**XXII. On the subclass of  $p$ -valently functions**

AKBULUT S., KADIOĞLU E., ÖZDEMİR M.

Applied Mathematics and Computation, vol.147, no.1, pp.89-96, 2004 (SCI-Expanded)

**XXIII. Diagonal Lift in the Cotangent Bundle and its Applications**

AKBULUT S., ÖZDEMİR M., SALİMOV A. A.

Turkish Journal Of Mathematics, vol.25, pp.491-502, 2001 (SCI-Expanded)

## Articles Published in Other Journals

**I. ON 0-CONVEX CONTRACTIVE MAPPINGS WITH APPLICATION TO INTEGRAL EQUATIONS**

ÖZKAN M., Ozdemir M., Yildirim I.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.73, no.1, pp.13-24, 2024 (ESCI)

**II. ON FIXED POINTS OF INTERPOLATIVE CONVEX AND ALMOST CONVEX-TYPE CONTRACTIVE MAPPINGS**

ÖZKAN M., KHAN S. H., ÖZDEMİR M.

JOURNAL OF SCIENCE AND ARTS, vol.24, no.1, pp.31-44, 2024 (ESCI)

**III. THE TSENG'S EXTRAGRADIENT METHOD FOR SEMISTRICHTLY QUASIMONOTONE VARIATIONAL INEQUALITIES**

Ur Rehman H., ÖZDEMİR M., Karahan I., Wairojjana N.

Journal of Applied and Numerical Optimization, vol.4, no.2, pp.203-214, 2022 (Scopus)

**IV. Common Fixed Point Results for a Class of  $(\alpha, \beta)$ -Geraghty Contraction Type Mappings in Modular Metric Spaces**

Aktay M., Özdemir M.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.2020, no.13, pp.150-161, 2020 (Peer-Reviewed Journal)

**V. COUPLED FIXED POINT THEOREMS WITH C-CLASS FUNCTIONS**

Ansari A. H., ÖZDEMİR M., Khan M. S., YILDIRIM İ.

FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.33, no.1, pp.109-124, 2018 (ESCI)

**VI. A New Iterative Projection Method For Approximating Fixed Point Problems And Variational Inequality Problems**

KARAHAN İ., ÖZDEMİR M.

Proceedings of the Institute of Mathematics and Mechanics, National Academy of Sciences of Azerbaijan, vol.40, pp.68-79, 2014 (Peer-Reviewed Journal)

**VII. Some common fixed point results for nonself asymptotically quasi nonexpansive mappings by a two step iterative process**

KHAN S. H., ÖZDEMİR M., AKBULUT S.

Indian Journal of Mathematics Special Volume Dedicated to Professor Billy E. Rhoades, vol.56, pp.169-188, 2014 (Peer-Reviewed Journal)

**VIII. Weak Convergence Theorem By A New Extragradient Method For Fixed Point Problems And Variational Inequality Problems**

KARAHAN İ., ÖZDEMİR M.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.63, pp.43-53, 2014 (Peer-Reviewed Journal)

**IX. Convergence of a general iterative scheme for three infinite families of uniformly quasi Lipschitzian mappings in convex metric spaces**

- ELMAS S., ÖZDEMİR M.  
Advances in Fixed Point Theory, vol.3, no.2, pp.406-417, 2013 (Peer-Reviewed Journal)
- X. **Some Fixed Point Results for Uniformly Quasi Lipschitzian Mappings in Convex Metric Spaces**  
YILDIRIM İ., Safeer Hussain k, ÖZDEMİR M.  
Journal of Nonlinear Analysis and Optimization, vol.4, no.2, pp.143-148, 2013 (Peer-Reviewed Journal)
- XI. **A general iterative method for approximation of fixed points and their applications**  
KARAHAN İ., ÖZDEMİR M.  
Advances in Fixed Point Theory, vol.3, pp.510-526, 2013 (Peer-Reviewed Journal)
- XII. **Convergence of a general iterative scheme for three infinite families of uniformly quasi lipschitzian mappings in convex metric spaces**  
ELMAS S., ÖZDEMİR M.  
Advances in Fixed Point Theory, vol.3, pp.406-417, 2013 (Peer-Reviewed Journal)
- XIII. **Some Fixed Point Results For Uniformly Quasi Lipschitzian Mappings In Convex Metric Spaces**  
YILDIRIM İ., KHAN S. H., ÖZDEMİR M.  
Journal of Nonlinear Analysis and Optimization: Theory & Applications, vol.4, pp.143-148, 2013 (Peer-Reviewed Journal)
- XIV. **A New Two Step Iterative Process with Errors for Common Fixed Points in Banach Spaces**  
TÜRKMEN E., ÖZDEMİR M., AKBULUT S.  
Selçuk Journal of Applied Mathematics, vol.12, pp.3-19, 2011 (Peer-Reviewed Journal)
- XV. **Some Results for Finite Families of Uniformly L Lipschitzian Mappings in Banach Spaces**  
KHAN S. H., YILDIRIM İ., ÖZDEMİR M.  
Thai Journal of Mathematics, vol.9, pp.295-307, 2011 (Scopus)
- XVI. **Approximating Common Fixed Points of Two Asymptotically Quasi Nonexpansive Mappings in Banach Spaces**  
YILDIRIM İ., ÖZDEMİR M.  
Tamkang Journal of Mathematics, vol.42, pp.19-30, 2011 (Scopus)
- XVII. **Approximating Common Fixed Points of Two Asymptotically Quasi Nonexpansive Mappings in Banach Spaces**  
YILDIRIM İ., ÖZDEMİR M.  
Tamkang Journal of Mathematics, vol.42, no.1, pp.19-30, 2011 (Scopus)
- XVIII. **Strong convergence to common fixed points of a finite family of Z operators in normed spaces**  
YILDIRIM İ., ÖZDEMİR M.  
International Journal of Engineering, Science and Technology, vol.2, pp.162-166, 2010 (Peer-Reviewed Journal)
- XIX. **On the Convergence of a New Two Step Iteration in the Class of Quasi Contractive Operators**  
YILDIRIM İ., ÖZDEMİR M., KIZILTUNÇ H.  
Int. Journal of Math. Analysis, vol.3, pp.1881-1892, 2009 (Peer-Reviewed Journal)
- XX. **On The Convergence of Implicit Iteration Process for Two Finite Families of Nonexpansive Mappings in Banach Spaces**  
YILDIRIM İ., ÖZDEMİR M.  
Jp Journal of Fixed Point Theory and Applications, vol.4, no.3, pp.209-223, 2009 (Peer-Reviewed Journal)
- XXI. **On the Convergence of Implicit Iteration Process for Two Finite Families of Nonexpansive Mapping in Banach Spaces**  
YILDIRIM İ., ÖZDEMİR M.  
JP Journal of Fixed Point Theory and Applications, vol.4, pp.209-223, 2009 (Peer-Reviewed Journal)
- XXII. **On Convergence Theorem for Nonself I Nonexpansive Mapping in Banach Spaces**  
KIZILTUNÇ H., ÖZDEMİR M.  
Applied Mathematical Sciences, vol.1, pp.2379-2383, 2007 (Peer-Reviewed Journal)
- XXIII. **On the Equivalence of Some Fixed Point Iterations**  
ÖZDEMİR M., AKBULUT S.  
Kyungpook Math. J., vol.46, pp.211-217, 2006 (Peer-Reviewed Journal)
- XXIV. **A Fixed Point Theorem for Multifunctions in Banach Space**

ÖZDEMİR M.

Intern. Math. Journal, vol.5, pp.347-352, 2004 (Peer-Reviewed Journal)

XXV. **On the Generalized Whitney Sum of the Sheaves of the Fundamental Groups**

ÖZDEMİR M., AKBULUT S.

Int. Jour. of Applied Math, vol.7, pp.91-99, 2001 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

I. **Strong and D Convergence of Three step Iterative Schemes for Generalized Nonexpansive Mappings in Hyperbolic Spaces**

ÖZKAN M., KHAN S. H., ÖZDEMİR M.

International Conference on Advancement in Mathematical Sciences, 5 - 07 November 2015

## **Supported Projects**

YILDIRIM İ., ÖZDEMİR M., KARACA N., Project Supported by Higher Education Institutions, BANACH UZAYLARINDA LİNEER OLMAYAN DENKLEMLERİN ÇÖZÜMÜ İÇİN GENELLEŞTİRİLMİŞ NEWTON METOTLARI VE BU METOTLAR YOLUYLA BAZI POLİNOMGRAFİLER, 2016 - 2018

ÖZDEMİR M., Project Supported by Higher Education Institutions, SABİT NOKTA TEORİSİNDE YENİ İTERASYON METOTLARI, 2010 - 2011

## **Metrics**

Publication: 53

Citation (WoS): 53

Citation (Scopus): 80

H-Index (WoS): 5

H-Index (Scopus): 6