

## Prof. Çetin YILDIZ

### Personal Information

**Web:** <https://avesis.atauni.edu.tr/cetin>

**Address:** Kazım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Bölümü, Kat:2, No:216

### International Researcher IDs

ORCID: 0000-0002-8302-343X

Yoksis Researcher ID: 40095

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Analiz Ve Fonksiyonlar Teorisi, Turkey 2011 - 2014

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Analiz Ve Fonksiyonlar Teorisi, Turkey 2008 - 2011

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, İlköğretim Matematik Eğitimi, Turkey 2004 - 2008

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, n. mertebeden türevlenebilen fonksiyonlar için integral eşitsizlikleri, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2014

Postgraduate, Quasi konveks fonksiyonlar için eşitsizlikler ve uygulamaları, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2011

### Research Areas

Mathematics, Integral Equations, Natural Sciences

### Academic Titles / Tasks

Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2023 - Continues

Associate Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2018 - 2023

Lecturer, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2017 - 2018

Expert, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2011 - 2017

### Courses

Klasik Eşitsizlikler-I, Postgraduate, 2022 - 2023, 2021 - 2022

Analiz-II, Undergraduate, 2021 - 2022

Analiz I, Undergraduate, 2021 - 2022  
Lineer Cebir-I, Undergraduate, 2022 - 2023  
Lineer Cebir-II, Undergraduate, 2021 - 2022  
Cebire Giriş, Undergraduate, 2021 - 2022  
Klasik Eşitsizlikler-II, Postgraduate, 2021 - 2022  
Öğretmenlik Uygulaması, Undergraduate, 2020 - 2021  
Kompleks Analiz, Undergraduate, 2020 - 2021  
Konveks Fonksiyonlar-I, Doctorate, 2020 - 2021  
Okul Deneyimi, Undergraduate, 2020 - 2021  
Analiz-I, Undergraduate, 2020 - 2021  
Cebire Giriş, Undergraduate, 2020 - 2021

## Advising Theses

Yıldız Ç., Genelleştirilmiş Hölder Eşitsizliği Üzerine Yeni İntegral Eşitsizlikleri, Postgraduate, E.TOPCU(Student), 2021

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021

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

- I. **On New Generalized Hermite–Hadamard–Mercer-Type Inequalities for Raina Functions**  
Çiftci Z., Coşkun M., Yıldız Ç., Ioana Cotîrla L., Breaz D.  
FRACTAL AND FRACTIONAL, vol.8, no.8, pp.1-16, 2024 (SCI-Expanded)
- II. **Novel Estimations of Hadamard-Type Integral Inequalities for Raina's Fractional Operators**  
Coskun M., YILDIZ Ç., Cotirla L.  
FRACTAL AND FRACTIONAL, vol.8, no.5, 2024 (SCI-Expanded)
- III. **Exploring Advanced Versions of Hermite-Hadamard and Trapezoid-Type Inequalities by Implementation of Fuzzy Interval-Valued Functions**  
Niu Y., Ali R. S., Talib N., Mubeen S., Rahman G., YILDIZ Ç., Awwad F. A., Ismail E. A. A.  
JOURNAL OF FUNCTION SPACES, vol.2024, 2024 (SCI-Expanded)
- IV. **On the Generalization of Ostrowski-Type Integral Inequalities via Fractional Integral Operators with Application to Error Bounds**  
Rahman G., Cortez M. V., Yıldız Ç., Samraiz M., Mubeen S., Yassen M. F.  
FRACTAL AND FRACTIONAL, vol.7, no.9, pp.1-12, 2023 (SCI-Expanded)
- V. **A Note on the New Ostrowski and Hadamard Type Inequalities via the Hölder–İşcan Inequality**  
Yıldız Ç., Valdés J. E. N., Cotîrla L.  
Axioms, vol.12, no.10, pp.1-15, 2023 (SCI-Expanded)
- VI. **Some Further Results Using Green's Function for s-Convexity**  
Yıldız Ç., Akgün L., Khan M. A., Rehman N.  
Journal of Mathematics, vol.2023, pp.1-12, 2023 (SCI-Expanded)
- VII. **On Further Inequalities for Convex Functions via Generalized Weighted-Type Fractional Operators**  
Yıldız Ç., Rahman G., Cotîrla L.  
FRACTAL AND FRACTIONAL, vol.7, pp.1-18, 2023 (SCI-Expanded)
- VIII. **On Novel Fractional Integral and Differential Operators and Their Properties**  
Mubeen S., Safdar Ali R., Elmasry Y., Bonyah E., Kashuri A., Rahman G., Yıldız Ç.  
Journal of Mathematics, vol.2023, no.-, pp.1-20, 2023 (SCI-Expanded)

- IX. **Examining the Hermite–Hadamard Inequalities for k-Fractional Operators Using the Green Function**  
YILDIZ Ç., Cotîrlă L.  
Fractal and Fractional, vol.7, no.2, 2023 (SCI-Expanded)
- X. **New Hadamard Type Inequalities for Modified h-Convex Functions**  
Breaz D., Yıldız Ç., Cotîrlă L., Rahman G., Yergöz B.  
FRACTAL AND FRACTIONAL, vol.7, no.3, pp.1-12, 2023 (SCI-Expanded)
- XI. **On new general inequalities for s-convex functions and their applications**  
YILDIZ Ç., Yergoz B., Yergoz A.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2023, no.1, 2023 (SCI-Expanded)
- XII. **An investigation into inequalities obtained through the new lemma for exponential type convex functions**  
YILDIZ Ç., Yergöz A.  
Filomat, vol.37, no.15, pp.5149-5163, 2023 (SCI-Expanded)
- XIII. **Fractional Integral Inequalities via s-Convex Functions**  
YILDIZ Ç., ÖZDEMİR M. E., KAVURMACI ÖNALAN H.  
Turkish Journal of Analysis and Number Theory, vol.5, pp.18-22, 2017 (SCI-Expanded)
- XIV. **NEW INEQUALITIES OF TILE HERMI, HADAMARD TYPE FOR n-TIME DIFFERENTIABLE FUNCTIONS WHICH ARE QUASICONVEX**  
YILDIZ Ç.  
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.10, no.3, pp.703-711, 2016 (SCI-Expanded)
- XV. **On Some New Fejer Type Inequalities**  
YILDIZ Ç., ÖZDEMİR M. E., GÜRBÜZ M.  
Caspian Journal of Applied Mathematics, Ecology and Economics, vol.4, pp.40-50, 2016 (SCI-Expanded)
- XVI. **An Ostrowski type inequality for derivatives of q-th power of s-convex functions via fractional integrals**  
ÖZDEMİR M. E., YILDIZ Ç.  
GEORGIAN MATHEMATICAL JOURNAL, vol.21, no.4, pp.491-498, 2014 (SCI-Expanded)
- XVII. **A note on geometrically convex functions**  
ÖZDEMİR M. E., YILDIZ Ç., GÜRBÜZ M.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2014 (SCI-Expanded)
- XVIII. **On the Co-Ordinated Convex Functions**  
Ozdemir M. E., YILDIZ Ç., Akdemir A. O.  
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, no.3, pp.1085-1091, 2014 (SCI-Expanded)
- XIX. **INEQUALITIES FOR MAPPINGS WHOSE SECOND DERIVATIVES ARE QUASI- CONVEX OR h-CONVEX FUNCTIONS**  
ÖZDEMİR M. E., GÜRBÜZ M., YILDIZ Ç.  
MISKOLC MATHEMATICAL NOTES, vol.15, no.2, pp.635-649, 2014 (SCI-Expanded)
- XX. **The Hadamard Inequality For Convex Function Via Fractional Integrals**  
ÖZDEMİR M. E., DRAGOMIR S. S., YILDIZ Ç.  
Acta Mathematica Scientia, vol.33, pp.1293-1299, 2013 (SCI-Expanded)
- XXI. **ON SOME INEQUALITIES OF SIMPSON'S TYPE VIA h-CONVEX FUNCTIONS**  
TUNÇ M., YILDIZ Ç., EKİNCİ A.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.42, no.4, pp.309-317, 2013 (SCI-Expanded)
- XXII. **The Hadamard Type Inequalities for m Convex Functions**  
YILDIZ Ç., GÜRBÜZ M., AKDEMİR A. O.  
Konuralp Journal of Mathematics, vol.1, pp.40-47, 2013 (SCI-Expanded)
- XXIII. **On some inequalities for s-convex functions and applications**  
ÖZDEMİR M. E., YILDIZ Ç., Akdemir A. O., SET E.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)
- XXIV. **On co-ordinated quasi-convex functions**  
ÖZDEMİR M. E., AKDEMİR A. O., YILDIZ Ç.

CZECHOSLOVAK MATHEMATICAL JOURNAL, vol.62, no.4, pp.889-900, 2012 (SCI-Expanded)

XXV. **ON SOME NEW HADAMARD-TYPE INEQUALITIES FOR CO-ORDINATED QUASI-CONVEX FUNCTIONS**

Ozdemir M. E., YILDIZ Ç., Akdemir A. O.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.41, no.5, pp.697-707, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Some New Applications For Weighted Hermite-Hadamard Type Inequalities**  
YILDIZ Ç., Tatar M. Ç., Coşkun M.  
Turkish journal of Inequalities, vol.7, no.2, pp.15-28, 2023 (Peer-Reviewed Journal)
- II. **Certain Weighted Fractional Integral Inequalities for Convex Functions**  
YILDIZ Ç., GÜRBÜZ M.  
Fundamentals of contemporary mathematical sciences (Online), vol.4, no.2, pp.65-75, 2023 (Peer-Reviewed Journal)
- III. **New General Inequalities For Exponential Type Convex Function**  
YILDIZ Ç., Bakan E., Dönmez H.  
TURKISH JOURNAL OF SCIENCE, vol.8, no.1, pp.11-18, 2023 (Peer-Reviewed Journal)
- IV. **THE MINKOWSKI TYPE INEQUALITIES FOR WEIGHTED FRACTIONAL OPERATORS**  
YILDIZ Ç., GÜRBÜZ M.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.71, no.3, pp.884-897, 2022 (ESCI)
- V. **Some new inequalities for convex functions via Riemann-Liouville fractional integrals**  
Gürbüz M., Yıldız Ç.  
Applied Mathematics and Nonlinear Sciences, vol.0, pp.1-8, 2021 (ESCI)
- VI. **New inequalities for n-time differentiable functions**  
YILDIZ Ç., Ozdemir M. E.  
TBILISI MATHEMATICAL JOURNAL, vol.12, no.2, pp.1-15, 2019 (ESCI)
- VII. **Some New Integral Inequalities Related to  $(\alpha, m)$ -Convex Functions**  
YILDIZ Ç., GÜRBÜZ M.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.3, pp.279-286, 2018 (Peer-Reviewed Journal)
- VIII. **Integral inequalities for n-times differentiable mappings**  
YILDIZ Ç., dragomir s.  
Journal of Abstract and Computational Mathematics, vol.3, no.2, pp.36-45, 2018 (Peer-Reviewed Journal)
- IX. **New general integral inequalities for quasiconvex functions**  
YILDIZ Ç.  
New Trends in Mathematical Sciences, vol.6, no.1, pp.1-7, 2018 (Peer-Reviewed Journal)
- X. **A New Generalization For n-Time Differentiable Mappings Which are Convex**  
YILDIZ Ç., ÖZDEMİR M. E.  
Turkish Journal of Inequalities, vol.2, no.1, pp.42-53, 2018 (Peer-Reviewed Journal)
- XI. **On Generalized Inequalities of Hermite-Hadamard Type For Convex Functions**  
YILDIZ Ç., ÖZDEMİR M. E.  
International Journal of Analysis and Applications, vol.14, pp.52-63, 2017 (ESCI)
- XII. **GENERALIZED INEQUALITIES OF HERMITE-HADAMARD TYPE FOR CONVEX FUNCTIONS**  
YILDIZ Ç., Ozdemir M. E.  
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.14, no.1, pp.52-63, 2017 (ESCI)
- XIII. **Some New Inequalities of Hermite Hadamard Fejer Type For s Convex Functions**  
YILDIZ Ç.  
Konuralp Journal of Mathematics, vol.4, pp.70-78, 2016 (Peer-Reviewed Journal)
- XIV. **New generalized inequalities of Hermite Hadamard type for quasi convex functions**  
YILDIZ Ç., ÖZDEMİR M. E.

- AIP Conference Proceedings, vol.1726, pp.1-4, 2016 (Scopus)
- XV. **New Generalizations of Ostrowski-Like Type Inequalities for Fractional Integrals**  
YILDIZ Ç., ÖZDEMİR M. E., SARIKAYA M. Z.  
KYUNGPOOK MATHEMATICAL JOURNAL, vol.56, no.1, pp.161-172, 2016 (ESCI)
- XVI. **On new Fejer type inequalities for m-convex and quasi convex functions**  
YILDIZ Ç., ÖZDEMİR M. E.  
TBILISI MATHEMATICAL JOURNAL, vol.8, no.2, pp.325-333, 2015 (ESCI)
- XVII. **Fractional integral inequalities for different functions**  
YILDIZ Ç., ÖZDEMİR M. E., KAVURMACI ÖNALAN H.  
New Trends in Mathematical Sciences, vol.3, pp.110-117, 2015 (Peer-Reviewed Journal)
- XVIII. **Inequalities for Co ordinated m Convex Functions via Riemann Liouville Fractional Integrals**  
YILDIZ Ç., TUNÇ M., KAVURMACI ÖNALAN H.  
International Journal of Analysis and Applications, vol.5, pp.45-55, 2014 (ESCI)
- XIX. **New Ostrowski Type Inequalities for Geometrically Convex Functions**  
ÖZDEMİR M. E., YILDIZ Ç.  
International Journal of Modern Mathematical Sciences, vol.8, pp.27-35, 2013 (Peer-Reviewed Journal)
- XX. **The Hadamard s Inequality for Quasi convex Functions via Fractional Integrals**  
ÖZDEMİR M. E., YILDIZ Ç.  
Annals of the University of Craiova, Mathematics and Computer Science Series, vol.40, pp.167-173, 2013 (ESCI)
- XXI. **New Inequalities For Hermite Hadamard And Simpson Type with Applications**  
ÖZDEMİR M. E., YILDIZ Ç.  
Tamkang Journal Of Mathematics, vol.44, pp.209-216, 2013 (ESCI)
- XXII. **New Inequalities Of Hadamard Type For Quasi Convex Functions**  
ÖZDEMİR M. E., YILDIZ Ç., AKDEMİR A. O., SET E.  
AIP Conference Proceedings, vol.1470, pp.99-101, 2012 (Scopus)
- XXIII. **On Some New Inequalities of Hadamard Type for h convex Functions**  
ÖZDEMİR M. E., AKDEMİR A. O., SET E., YILDIZ Ç.  
AIP Conference Proceedings, vol.1470, pp.35-38, 2012 (Peer-Reviewed Journal)
- XXIV. **Some Inequalities of Hermite Hadamard Type For Functions Whose Derivatives Absolute Values Are Quasi Convex**  
YILDIZ Ç., AKDEMİR A. O., AVCI ARDIÇ M.  
EÜFBED - Fen Bilimleri Enstitüsü Dergisi, vol.3, pp.263-271, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Temel Diferansiyel Denklemler**  
YILDIZ Ç.  
Ertual Akademi Yayıncılık, Erzurum, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. **An Investigation into New Inequalities for Modified h-Convex Functions**  
YILDIZ Ç., YERGÖZ B.  
5TH INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Turkey, 27 October 2022
- II. **Some Inequalities of Grüss Type for a Weighted Fractional Integral Operator**  
GÜRBÜZ M., YILDIZ Ç.  
3RD INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES: CURRENT TRENDS AND DEVELOPMENTS, Ağrı, Turkey, 20 November 2020, pp.121-128

- III. **Some New Inequalities for Convex Functions via Riemann-Liouville Fractional Integrals**  
GÜRBÜZ M., YILDIZ Ç.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCES, Ağrı, Turkey, 19 - 22 June 2019
- IV. **Some New Integral Inequalities Related to  $(\alpha-m)$ -Convex Functions**  
YILDIZ Ç., GÜRBÜZ M.  
2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 18 - 21 April 2017, pp.146
- V. **Integral Inequalities Obtained for Some Convex Function Classes**  
GÜRBÜZ M., YILDIZ Ç.  
2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 18 - 21 April 2017, pp.160
- VI. **Integral Inequalities for Quasi-Convex Functions and Applications**  
YILDIZ Ç., Gurbuz M.  
2nd International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 18 - 21 April 2017, vol.1833
- VII. **New Generalized Inequalities of Hermite Hadamard Type for Quasi Convex Functions**  
YILDIZ Ç., ÖZDEMİR M. E.  
International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 21 - 23 April 2016, vol.1726, pp.1-4
- VIII. **On new Fejer type inequalities for  $m$  convex and quasi convex functions**  
YILDIZ Ç., ÖZDEMİR M. E.  
The Algerian-Turkish International days on Mathematics, İstanbul, Turkey, 12 - 14 September 2013, vol.8, pp.325-333
- IX. **Inequalities for Quasi Convex and  $h$  Convex Functions**  
GÜRBÜZ M., ÖZDEMİR M. E., YILDIZ Ç.  
International Conference On Applied Analysis and Algebra, İstanbul, Turkey, 29 June - 02 July 2011, vol.15, pp.635-649
- X. **Riemann Liouville İntegralleri Yardımıyla Koordinatlarda  $m$  Konveks Fonksiyonlar İçin Eşitsizlikler**  
YILDIZ Ç., KAVURMACI ÖNALAN H., TUNÇ M.  
7. Ankara Matematik Günleri, Ankara, Turkey, 31 May - 01 June 2012, vol.5, pp.45-55
- XI. **On the Coordinated Convex Functions**  
YILDIZ Ç., ÖZDEMİR M. E., AKDEMİR A. O.  
International Conference On Applied Analysis and Algebra, İstanbul, Turkey, 29 June - 02 July 2011, vol.8, pp.1058-1091
- XII. **A New Generalization of The Midpoint Formula for  $n$  Time Differentiable Mappings Which are Convex**  
YILDIZ Ç., ÖZDEMİR M. E.  
International Congress in Honour of Professor Ravi P. Agarwal, Bursa, Turkey, 23 - 26 June 2014
- XIII. **A Note On Geometrically Convex Functions**  
YILDIZ Ç., ÖZDEMİR M. E., GÜRBÜZ M.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 2 - 05 June 2013, vol.2014
- XIV.  **$h$  Konveks Fonksiyonlar Yoluyla Simpson Tipli Bazı Eşitsizlikler Üzerine**  
TUNÇ M., YILDIZ Ç., EKİNCİ A.  
7. Ankara Matematik Günleri, Ankara, Turkey, 31 May - 01 June 2012, vol.42, pp.309-317
- XV. **On Some New Fejer Type Inequalities**  
YILDIZ Ç., ÖZDEMİR M. E., GÜRBÜZ M.  
18. International Conference on Mathematical Modelling and Analysis, Tartu, Estonia, 27 - 30 May 2013
- XVI. **On Some Inequalities For  $s$  Convex Functions And Applications**  
YILDIZ Ç., ÖZDEMİR M. E., AKDEMİR A. O., SET E.

International Congress In Honour of Professor H. M. Srivastava, Bursa, Turkey, 23 - 26 August 2012, vol.333

**XVII. Türevlerinin Mutlak Değeri m Konveks Olan Fonksiyonlar İçin Hermite Hadamard Tipi Bazı Eşitsizlikler**

GÜRBÜZ M., YILDIZ Ç., AKDEMİR A. O.

23. Ulusal Matematik Sempozyumu, Kayseri, Turkey, 4 - 07 August 2010, vol.1, pp.40-47

**XVIII. On Some New Inequalities of Hadamard Type For h Convex Functions**

AKDEMİR A. O., SET E., ÖZDEMİR M. E., YILDIZ Ç.

First International Conference On Analysis and Applied Mathematics, Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.35-38

**XIX. New Inequalities of Hadamard Type For Quasi Convex Functions**

ÖZDEMİR M. E., YILDIZ Ç., AKDEMİR A. O., SET E.

First International Conference On Analysis And Applied Mathematics, Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.99-101

**XX. On Some New Hadamard Type Inequalities For Co Ordinated Quasi Convex Functions**

ÖZDEMİR M. E., YILDIZ Ç., AKDEMİR A. O.

6. Ankara Matematik Günleri, Ankara, Turkey, 2 - 03 June 2011, vol.41, pp.697-707

## Supported Projects

YILDIRIM F., KAPLAN A., AKBULUT K., CENGİZ N., SUBAŞI M., UĞUR T., KARAMAN Ç., TAŞ S., ŞENER KILIÇ S. Ş., KARABACAK M., et al., Project Supported by Higher Education Institutions, II. Uluslararası Temel ve Uygulamalı Matematik Bilimlerindeki Güncel Gelişmeler Sempozyumu, 2023 - 2024

YILDIZ Ç., YERGÖZ B., Project Supported by Higher Education Institutions, Modifiye edilmiş h-konveks fonksiyonlar üzerine yeni integral eşitsizlikleri, 2022 - 2023

YILDIZ Ç., YILDIZ G., KÖSEOĞLU H., KURT Ş., AŞKIN Z., YAVUZ A., GÜNGÖR C., Project Supported by Higher Education Institutions, Şimdi Temizlik Zamanı, 2019 - 2020

## Scientific Refereeing

Afrika Matematika, Other Indexed Journal, March 2021

## Metrics

Publication: 70

Citation (WoS): 392

Citation (Scopus): 399

H-Index (WoS): 10

H-Index (Scopus): 10