

Email: hakan.tor@agu.edu.tr

Web: <https://avesis.agu.edu.tr/hakan.tor>

International Researcher IDs

ScholarID: oaWzplQAAAAJ

ORCID: 0000-0003-3193-5004

Publons / Web Of Science ResearcherID: AAH-8622-2019

ScopusID: 56310656600

Yoksis Researcher ID: 37052

Education Information

- I. Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey
2005 - 2013
- II. Undergraduate, Ankara University, Faculty Of Science, Department Of Mathematics, Turkey 2000 - 2004

Research Areas

Numerical Algorithms, Artificial Intelligence, Computer Learning and Pattern Recognition, Optimization, Numerical Analysis

Academic Titles / Tasks

- I. Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Mühendislik Bilimleri, 2023 - Continues
- II. Assistant Professor, Abdullah Gul University, Bilgisayar Bilimleri Fakültesi, Matematik, 2017 - 2023
- III. Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Matematik Bölümü, 2014 - 2017
- IV. Research Assistant, Van Yüzüncü Yıl University, Fen Fakültesi, Matematik Bölümü, 2013 - 2014
- V. Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, 2005 - 2013

Academic and Administrative Experience

- I. Member of the Commission, Abdullah Gul University, Mühendislik Fakültesi, Mühendislik Bilimleri, 2024 - Continues
- II. Member of the Senate, Abdullah Gul University, Bilgisayar Bilimleri Fakültesi, Matematik, 2021 - 2023

Courses

- I. Business Mathematics II, Undergraduate, 2021 - 2022, 2019 - 2020
- II. Calculus II, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018
- III. Business Mathematics I , Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018
- IV. Business Mathematics II, Undergraduate, 2020 - 2021, 2019 - 2020
- V. Calculus, Undergraduate, 2021 - 2022

- VI. Business Mathematics II, Undergraduate, 2020 - 2021
- VII. Linear Algebra, Undergraduate, 2020 - 2021
- VIII. Calculus II, Undergraduate, 2020 - 2021, 2019 - 2020
- IX. CALCULUS II FOR ELECTRICAL-ELECTRONICS ENGINEERING, Undergraduate, 2019 - 2020
- X. Calculus I, Undergraduate, 2020 - 2021
- XI. Linear Algebra, Undergraduate, 2019 - 2020
- XII. Calculus I, Undergraduate, 2018 - 2019, 2017 - 2018
- XIII. Real Analiz I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
- XIV. Matematiksel Optimizasyon Yöntemleri, Doctorate, 2015 - 2016, 2014 - 2015
- XV. Matematik (Eczacılık Fakültesi), Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
- XVI. Genel Matematik (Mimarlık Fakültesi), Undergraduate, 2016 - 2017, 2014 - 2015
- XVII. Reel Analiz II, Undergraduate, 2015 - 2016, 2014 - 2015
- XVIII. Optimizasyona Giriş, Doctorate, 2015 - 2016

Jury Memberships

- I. Doctorate, Doctorate, Eskişehir Teknik Üniversitesi, August, 2022
- II. Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, July, 2022
- III. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, January, 2022
- IV. Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, June, 2021
- V. Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, June, 2021
- VI. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, June, 2021
- VII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, January, 2021
- VIII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, June, 2020
- IX. Doctorate, Doctorate, Eskişehir Teknik Üniversitesi, November, 2019
- X. Post Graduate, Post Graduate, Zonguldak Bülent Ecevit Üniversitesi, July, 2019
- XI. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, May, 2019
- XII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, May, 2019
- XIII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Anadolu Üniversitesi, May, 2018
- XIV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Anadolu Üniversitesi, May, 2018
- XV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Anadolu Üniversitesi, May, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Modified Multiple Shooting Algorithm for Parameter Estimation in ODEs Using Adjoint Sensitivity Analysis**
Aydınoğlu O., TOR A. H.
APPLIED MATHEMATICS AND COMPUTATION, vol.390, 2021 (SCI-Expanded)
- II. **An introduction to non-smooth convex analysis via multiplicative derivative**

Tor A. H.

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.13, no.1, pp.351-359, 2019 (SCI-Expanded)

III. **Aggregate codifferential method for nonsmooth DC optimization**

Tor A. H., Bagirov A., KARASÖZEN B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.851-867, 2014 (SCI-Expanded)

IV. **A generalized subgradient method with piecewise linear subproblem**

Bagirov A. M., Nazari Ganjehlou A., Tor H., Ugon J.

Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications and Algorithms, vol.17, pp.621-638, 2010 (SCI-Expanded)

V. **TRUNCATED CODIFFERENTIAL METHOD FOR NONSMOOTH CONVEX OPTIMIZATION**

Bagirov A. M., Ganjehlou A. N., Ugon J., Tor A. H.

PACIFIC JOURNAL OF OPTIMIZATION, vol.6, no.3, pp.483-496, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. **Comparative assessment of smooth and non-smooth optimization solvers in HANSO software**

Tor A. H.

INTERNATIONAL JOURNAL OF OPTIMIZATION AND CONTROL-THEORIES & APPLICATIONS-IJOCTA, vol.12, no.1, pp.39-46, 2022 (ESCI)

II. **Hyperbolic Smoothing Method for Sum Max Problems**

TOR A. H.

Neural, Parallel and Scientific Computations, vol.24, pp.381-392, 2016 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Benchmarking for nonsmooth convex optimization methods**

Tor A. H.

4th International Conference on Pure and Applied Mathematics (ICPAM - VAN 2022), Van, Turkey, 22 - 23 June 2022, pp.143

II. **Some numerical results on the software HANSO**

Tor A. H.

3rd International Conference on Pure and Applied Mathematics, Van, Turkey, 3 - 05 September 2020, pp.104

III. **An optimality condition for non-smooth convex problems via -subgradient**

TOR A. H.

2nd International Conference on Pure and Applied Mathematics (ICPAM-VAN 2018), 11 - 13 September 2018, pp.134

IV. **A new analysis of non-smooth convex optimisation problems by using non-Newtonian calculus**

TOR A. H.

The International Congress of Mathematicians 2018 (ICM 2018), 1 - 09 August 2018

V. **Parameter estimation by optimizing for multiple shooting method**

Tor A. H., Aydoğmuş Ö. H.

Caucasian Mathematics Conference CMC II, Van, Turkey, 22 - 24 August 2017

VI. **Hyperbolic Smoothing Method for DC Problems Obtained From Clustering Problems**

TOR A. H.

International Conference on Analysis and Its Applications, 12 - 15 July 2016

VII. **Optimizasyon ve MATLAB Uygulamaları**

TOR A. H.

Uygulamalı Matematik Çalıştayı, Turkey, 1 - 03 February 2016

- VIII. **Hyperbolic Smoothing Method for Sum Max Problems**
 TOR A. H.
 International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015
- IX. **A Codifferential Method for the Difference of Polyhedral Functions**
 Tor A. H.
 The 26th European Conference on Operational Research, Rome, Italy, 1 - 04 July 2013, pp.130
- X. **Limited codifferential method for nonsmooth convex optimization problems**
 Tor A. H.
 International Conference on Applied and Computational Mathematics (ICACM), Ankara, Turkey, 3 - 06 October 2012
- XI. **A Truncated Codifferential Method Using hypogradients from current and previous iterations**
 Tor A. H.
 25th European Conference on Operational Research, Vilnius, Lithuania, 8 - 11 July 2012, pp.51
- XII. **Truncated codifferential method for linearly constrained nonsmooth optimization**
 Tor A. H., KARASÖZEN B., Bagirov A.
 24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, MEC EurOPT 2010, İzmir, Turkey, 23 - 26 June 2010, pp.87-93
- XIII. **Truncated codifferential method for nonsmooth convex optimization**
 Tor A. H.
 23rd European Conference on Operational Research, Bonn, Germany, 5 - 08 July 2009, pp.293
- XIV. **Generalized subgradient algorithm for nonsmooth nonconvex optimization**
 Tor A. H.
 23rd European Conference on Operational Research, Bonn, Germany, 5 - 08 July 2009, pp.247

Expert Reports

- I. **Review on Optimization-based scenario reduction for data-driven two-stage stochastic optimization**
 Tor A. H.
 American Mathematical Society - Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2024
- II. **Review on Adaptivity of stochastic gradient methods for nonconvex optimization**
 Tor A. H.
 American Mathematical Society - Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2023
- III. **Review on An optimal algorithm for decentralized finite-sum optimization**
 Tor A. H.
 American Mathematical Society - Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2022
- IV. **Review on Stochastic strongly convex optimization via distributed epoch stochastic gradient algorithm**
 Tor A. H.
 American Mathematical Society - Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2022
- V. **Review on New hybrid projection methods for variational inequalities involving pseudomonotone mappings**
 Tor A. H.
 Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2022
- VI. **Review on A new conjugate gradient hard thresholding pursuit algorithm for sparse signal recovery**
 Tor A. H.
 Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2021
- VII. **Review on An efficient proximal block coordinate homotopy method for large-scale sparse least squares problems**
 Tor A. H.

Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2021

- VIII. **Review on Generalized cutting plane method for solving nonlinear stochastic programming problems**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2021
- IX. **Review on Inexact variable metric stochastic block-coordinate descent for regularized optimization.**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2020
- X. **Review on Convex restriction of power flow feasibility sets.**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2020
- XI. **Review on Convergence rates of accelerated proximal gradient algorithms under independent noise.**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2019
- XII. **Review on Convergence of the exponentiated gradient method with Armijo line search.**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2019
- XIII. **Review on A unification and generalization of exact distributed first-order methods.**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2019
- XIV. **Review on Convergence of multi-block Bregman ADMM for nonconvex composite problems.**
Tor A. H.
Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2018

Scientific Refereeing

- I. Black Sea Journal of Engineering and Science, Other Indexed Journal, August 2023
- II. Journal of mathematical sciences and modelling (Online), Other Indexed Journal, January 2023
- III. Numerical Algebra, Control and Optimization, Journal Indexed in ESCI, June 2022
- IV. TUBITAK Project, 2204-B Middleschool Students Research Projects Competition , TÜBİTAK, Turkey, March 2022
- V. TAIWANESE JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, December 2021
- VI. JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, Journal Indexed in SCI-E, April 2021
- VII. Selçuk Üniversitesi Fen Fakültesi Fen Dergisi, Other Journals, December 2020
- VIII. Journal of the Egyptian Mathematical Society, Other Indexed Journal, November 2019
- IX. TUBITAK Project, 2204-B Middleschool Students Research Projects Competition , TÜBİTAK, Turkey, March 2019
- X. OPTIMIZATION METHODS & SOFTWARE, SCI Journal, October 2018
- XI. TURKISH JOURNAL OF MATHEMATICS, SCI Journal, March 2017
- XII. TURKISH JOURNAL OF MATHEMATICS, SCI Journal, March 2017
- XIII. TURKISH JOURNAL OF MATHEMATICS, SCI Journal, March 2016
- XIV. JOURNAL OF GLOBAL OPTIMIZATION, SCI Journal, December 2013

Scientific Consultations

- I. Milli Eğitim Bakanlığı, Scientific Consultancy, Abdullah Gul University, Bilgisayar Bilimleri Fakültesi, Matematik, Turkey, 2023 - 2023

Tasks In Event Organizations

- I. Tunç C., Tor A. H., Kayar Z., Akgün N., Güneş Aktaş Ç., Tunç O., Yazgan R., 4th International Conference on Pure and Applied Mathematics ICPAM-VAN 2022, Scientific Congress, Van, Turkey, Haziran 2022
- II. Tor A. H., 3rd International Conference on Pure and Applied Mathematics ICPAM-VAN 2020, Scientific Congress, Van, Turkey, Eylül 2020
- III. Tor A. H., International Conference on Pure and Applied Mathematics ICPAM-VAN 2018, Scientific Congress, Van, Turkey, Eylül 2018
- IV. Tor A. H., CMC II - Caucasian Mathematics Conference II, Scientific Congress, Van, Turkey, Ağustos 2017
- V. Tor A. H., International Conference on Pure and Applied Mathematics ICPAM 2015, Scientific Congress, Van, Turkey, Ağustos 2015

Mobility Activity

- I. Faculty Training Programme, Research During Graduate Education, Federation University Australia (formerly University of Ballarat), Australia, 2011 - 2011
- II. Faculty Training Programme, Research During Graduate Education, Federation University Australia (formerly University of Ballarat), Australia, 2008 - 2009

Metrics

Publication: 35
Citation (WoS): 13
Citation (Scopus): 21
H-Index (WoS): 3
H-Index (Scopus): 3

Scholarships

- I. 2211-A Genel Yurt İçi Doktora Bursu, TUBİTAK, 2006 - 2011

Coaching Duties

Refereeing Duties
