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

## Education Information

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- 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

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Computer Learning, Optimization

## Academic Titles / Tasks

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

## Courses

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

## Jury Memberships

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- I. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, June, 2020
- II. Doctorate, Doctorate, Eskişehir Teknik Üniversitesi, November, 2019
- III. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, May, 2019
- IV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Teknik Üniversitesi, May, 2019
- V. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Anadolu Üniversitesi, May, 2018
- VI. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Anadolu Üniversitesi, May, 2018
- VII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Anadolu Üniversitesi, May, 2017

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

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- I. **A Modified Multiple Shooting Algorithm for Parameter Estimation in ODEs Using Adjoint Sensitivity Analysis**  
Aydognmus O., TOR A. H.  
APPLIED MATHEMATICS AND COMPUTATION, vol.390, 2021 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in 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 (Journal Indexed in SCI)

### Articles Published in Other Journals

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- I. **Hyperbolic Smoothing Method for Sum Max Problems**  
TOR A. H.  
Neural, Parallel and Scientific Computations, vol.24, pp.381-392, 2016 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

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- I. **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
- II. **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

- III. **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
- IV. **Parameter estimation by optimizing for multiple shooting method**  
TOR A. H. , AYDOĞMUŞ Ö. H.  
Caucasian Mathematics ConferenceCMC II, 22 - 24 August 2017
- V. **Hyperbolic Smoothing Method for DC Problems Obtained From Clustering Problems**  
TOR A. H.  
International Conference on Analysis and Its Applications, 12 - 15 July 2016
- VI. **Optimizasyon ve MATLAB Uygulamaları**  
TOR A. H.  
Uygulamalı Matematik Çalıştayı, Turkey, 1 - 03 February 2016
- VII. **Hyperbolic Smoothing Method for Sum Max Problems**  
TOR A. H.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015
- VIII. **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
- IX. **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
- X. **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
- XI. **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 EuroOPT 2010, İzmir, Turkey, 23 - 26 June 2010, pp.87-93
- XII. **Truncated codifferential method for nonsmooth convex optimization**  
Tor A. H.  
23rd European Conference on Operational Research, Bonn, Germany, 5 - 08 July 2009, pp.293
- XIII. **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

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- I. **Review on Convergence rates of accelerated proximal gradient algorithms under independent noise.**  
Tor A. H.  
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2021
- II. **Review on Inexact variable metric stochastic block-coordinate descent for regularized optimization.**  
Tor A. H.  
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2020
- III. **Review on Convex restriction of power flow feasibility sets.**  
Tor A. H.  
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2020

- IV. **Review on Convergence of the exponentiated gradient method with Armijo line search.**  
Tor A. H.  
Mathematical Reviews® (MathSciNet®), pp.2, Michigan, 2019
- V. **Review on A unification and generalization of exact distributed first-order methods.**  
Tor A. H.  
Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2019
- VI. **Review on Convergence of multi-block Bregman ADMM for nonconvex composite problems.**  
Tor A. H.  
Mathematical Reviews® (MathSciNet®), pp.1, Michigan, 2018

## Scientific Refereeing

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- I. JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, Journal Indexed in SCI-E, April 2021
- II. Selçuk Üniversitesi Fen Fakültesi Fen Dergisi, Other Journals, December 2020
- III. Journal of the Egyptian Mathematical Society, Other Indexed Journal, November 2019
- IV. OPTIMIZATION METHODS & SOFTWARE, SCI Journal, October 2018
- V. TURKISH JOURNAL OF MATHEMATICS, SCI Journal, March 2017
- VI. TURKISH JOURNAL OF MATHEMATICS, SCI Journal, March 2017
- VII. TURKISH JOURNAL OF MATHEMATICS, SCI Journal, March 2016
- VIII. JOURNAL OF GLOBAL OPTIMIZATION, SCI Journal, December 2013

## Tasks In Event Organizations

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- I. Tor A. H. , 3rd International Conference on Pure and Applied Mathematics ICPAM-VAN 2020, Scientific Congress, Van, Turkey, Eylül 2020
- II. Tor A. H. , International Conference on Pure and Applied Mathematics ICPAM-VAN 2018, Scientific Congress, Van, Turkey, Eylül 2018
- III. Tor A. H. , CMC II - Caucasian Mathematics Conference II, Scientific Congress, Van, Turkey, Ağustos 2017
- IV. Tor A. H. , International Conference on Pure and Applied Mathematics ICPAM 2015, Scientific Congress, Van, Turkey, Ağustos 2015

## Citations

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- I. Total Citations (WOS): 8
- II. h-index (WOS): 2

## Scholarships

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

## Coaching Duties

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## Refereeing Duties

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