

Asst. Prof. ERCAN GÜRVİT

Personal Information

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Biography

Ercan GÜRVİT 1962 yılında İstanbul'da doğdu. 1981 yılında Özel Saint-Joseph Fransız Erkek lisesinden, 1989 yılında Bogaziçi Üniversitesi İdari Bilimler Fakültesi İşletme Bölümü Ön Lisans programından mezun oldu. Devamında 2007 yılında Marmara Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü'nden ve 2009 yılında da Marmara Üniversitesi Fen-Bilimleri Enstitüsü Matematik Anabilim Dalı Uygulamalı Matematik programından Yüksek Lisans mezuniyetini aldı. 2020 yılında Marmara Üniversitesi Fen-Bilimleri Enstitüsü Matematik Anabilim Dalı Uygulamalı Matematik programından Doktora mezuniyetini aldı.

Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Mathematics, Turkey 2009 - 2020

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Mathematics, Turkey 2007 - 2009

Undergraduate, Marmara University, Faculty of Arts and Sciences, Mathematics, Turkey 2000 - 2007

Associate Degree, Bogazici University, Faculty Of Economics And Administrative Sciences, Department Of Business, Turkey 1983 - 1988

Foreign Languages

German, B1 Intermediate

French, C2 Mastery

English, C2 Mastery

Italian, A2 Elementary

Research Areas

Mathematics, Natural Sciences

Academic Titles / Tasks

Lecturer, Marmara University, Faculty of Arts and Sciences, Mathematics, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The fluctuationlessness approach to the numerical integration of functions with a single variable by integrating Taylor expansion with explicit remainder term**
Baykara N. A., GÜRVİT E., Demiralp M.
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.49, no.2, pp.393-406, 2011 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Multivariate Numerical Integration via Fluctuationlessness Theorem: Case Study**
Baykara N. A., GÜRVİT E.
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, France, 4 - 08 July 2016, vol.1798
- II. **Recovery of Missing Data via Wavelets Followed by High-Dimensional Modeling**
GÜRVİT E., Baykara N. A.
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, France, 4 - 08 July 2016, vol.1798
- III. **Separate Node Ascending Derivatives Expansion (SNADE) for Univariate Functions: Univariate Numerical Integration**
Baykara N. A., GÜRVİT E.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 22 - 28 September 2014, vol.1648
- IV. **Separate Node Ascending Derivatives Expansion (SNADE) for Univariate Functions: Node Optimization via Partial Fluctuation Suppression**
GÜRVİT E., Baykara N. A.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 22 - 28 September 2014, vol.1648
- V. **Univariate Function Decomposition Via Tridiagonal Vector Enhanced Multivariate Products Representation (TVEMPR)**
GÜRVİT E., Baykara N. A., Demiralp M.
International Conference on Mathematics and Computers in Sciences and in Industry (MCSI), Varna, Bulgaria, 13 - 15 September 2014, pp.189-194
- VI. **UNIVARIATE APPROXIMATE INTEGRATION VIA NESTED TAYLOR MULTIVARIATE FUNCTION DECOMPOSITION**
GÜRVİT E., Baykara N. A.
10th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), Narvik, Norway, 15 - 18 July 2014, vol.1637, pp.373-376
- VII. **NESTED TAYLOR DECOMPOSITION IN MULTIVARIATE FUNCTION DECOMPOSITION**
Baykara N. A., GÜRVİT E.
10th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), Narvik, Norway, 15 - 18 July 2014, vol.1637, pp.134-137
- VIII. **Nested Taylor Decomposition of Univariate Functions under Fluctuationlessness Approximation**
GÜRVİT E., Baykara N. A.
International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE), Athens, Greece, 4 - 07 April 2014, vol.1618, pp.895-898
- IX. **Numerical Integration Based on Nested Taylor Decomposition of Univariate Functions under Fluctuationlessness Approximation**
Baykara N. A., GÜRVİT E.
International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE), Athens, Greece, 4 - 07 April 2014, vol.1618, pp.899-902
- X. **Multinomialization of the Classical Three Body Problem Before Applying Probabilistic Evolution Approach**

GÜRVİT E., Baykara N. A.

International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.1990-1993

- XI. **Multi Nodalset Fluctuation Free Integration in Taylor Remainder's Evaluation**
GÜRVİT E., Baykara N. A., Demiralp M.
International Conference on Numerical Analysis and Applied Mathematics, Rhodes, Greece, 19 - 25 September 2010, vol.1281, pp.1944-1946
- XII. **Multi Nodalset Fluctuation Free Approximation in Taylor Remainder's Evaluation**
Baykara N. A., GÜRVİT E., Demiralp M.
International Conference on Numerical Analysis and Applied Mathematics, Rhodes, Greece, 19 - 25 September 2010, vol.1281, pp.1939-1940
- XIII. **Fluctuation Studies in the Infinite Interval Matrix Representations of Operator Products and Their Decompositions**
Baykara N. A., GÜRVİT E., Demiralp M.
7th International Conference on Computational Methods in Science and Engineering (ICCMSE), Rhodes, Greece, 29 September - 04 October 2009, vol.1504, pp.808-811
- XIV. **Fluctuation Studies on the Finite Interval Matrix Representations of Operator Products and Their Decompositions**
GÜRVİT E., Baykara N. A., Demiralp M.
7th International Conference on Computational Methods in Science and Engineering (ICCMSE), Rhodes, Greece, 29 September - 04 October 2009, vol.1504, pp.812-815
- XV. **Numerical Integration of Bivariate Functions Using Fluctuationlessness Theorem with a Trigonometric Basis Function to Deal with Highly Oscillatory Functions**
GÜRVİT E., Baykara N. A., Demiralp M.
11th International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering/Applied Computing Conference 2009, Vouliagmeni, Greece, 28 - 30 September 2009, pp.400-401
- XVI. **Numerical Approximation to Multivariate Functions Using Fluctuationlessness Theorem with a Trigonometric Basis Function to Deal with Highly Oscillatory Functions**
Baykara N. A., GÜRVİT E., Demiralp M.
11th International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering/Applied Computing Conference 2009, Vouliagmeni, Greece, 28 - 30 September 2009, pp.394-395
- XVII. **Taylor Series Expansion with the Fluctuation Freely Approximated Remainder Over Highly Oscillatory Basis Functions**
GÜRVİT E., Baykara N. A., Demiralp M.
International Conference on Numerical Analysis and Applied Mathematics, Rethimnon, Greece, 18 - 22 September 2009, vol.1168, pp.432-433
- XVIII. **Fluctuationless Univariate Integration Through Taylor Expansion with Remainder by Using Oscillatory Function Basis Sets**
Baykara N. A., GÜRVİT E., Demiralp M.
International Conference on Numerical Analysis and Applied Mathematics, Rethimnon, Greece, 18 - 22 September 2009, vol.1168, pp.428-429
- XIX. **Numerical Integration of Bivariate Functions over a Non Rectangular Area by Using Fluctuationlessness Theorem**
Baykara N. A., GÜRVİT E., Demiralp M.
2nd WSEAS International Conference on Multivariate Analysis and Its Application in Science and Engineering, İstanbul, Turkey, 30 May - 01 June 2009, pp.81-82
- XX. **Evaluation of Multivariate Integrals via Fluctuationlessness Theorem and Taylor's Remainder**
GÜRVİT E., Baykara N. A., Demiralp M.
International Conference on Computational Methods in Science and Engineering, Hersonissos, Greece, 25 - 30 September 2008, vol.1148, pp.128-129
- XXI. **A Hybridized Finite Taylor Formula by Fluctuation Free Remainder Term for a Multivariable**

Function Approximation

Baykara N. A., GÜRVİT E., Demiralp M.

International Conference on Computational Methods in Science and Engineering, Hersonissos, Greece, 25 - 30 September 2008, vol.1148, pp.21-22

XXII. **A Hybridized Finite Taylor Formula by Fluctuation Free Remainder Term for Univariate Function Approximation**

Baykara N. A., GÜRVİT E., Demiralp M.

International Conference on Numerical Analysis and Applied Mathematics, Psalidi, Greece, 16 - 20 September 2008, vol.1048, pp.87-89

XXIII. **Evaluation of Univariate Integrals via Fluctuationlessness Theorem**

GÜRVİT E., Baykara N. A., Demiralp M.

International Conference on Numerical Analysis and Applied Mathematics, Psalidi, Greece, 16 - 20 September 2008, vol.1048, pp.239-241

Metrics

Publication: 24

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