

## Prof. Mevlüde YAKIT ONGUN

### Personal Information

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### Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, -, Turkey Continues

Postgraduate, Selcuk University, Fen Bilimleri Enstitüsü, Matematik Bölümü, Turkey Continues

Undergraduate, Selcuk University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey Continues

### Research Areas

Mathematics, Differential Equations, Functional Equations, Numerical Analysis, Natural Sciences

### Academic and Administrative Experience

Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik, 2017 - Continues

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

- I. **A nonstandard numerical scheme for a predator-prey model with Allee effect**  
Ongun M., Ozdogan N.  
JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS, vol.10, no.2, pp.713-723, 2017 (Journal Indexed in SCI)
- II. **Nonstandard finite difference schemes for a fractional-order Brusselator system**  
YAKIT ONGUN M., Arslan D., Garrappa R.  
ADVANCES IN DIFFERENCE EQUATIONS, 2013 (Journal Indexed in SCI)
- III. **A Numerical Comparison for a Discrete HIV Infection of CD4(+) T-Cell Model Derived from Nonstandard Numerical Scheme**  
YAKIT ONGUN M., Turhan I.  
JOURNAL OF APPLIED MATHEMATICS, 2013 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Nonstandard Finite Difference Scheme for a Computer Virus Model**  
KOCABIYIK M., ÖZDOĞAN N., YAKIT ONGUN M.  
Journal of Innovative Science and Engineering (JISE), vol.4, no.2, pp.96-108, 2020 (Refereed Journals of Other Institutions)
- II. **TÜRKİYE'DE DÜŞÜNME BECERİLERİ KONUSUNDA YAPILAN DOKTORA TEZLERİNİN BETİMSSEL ANALİZİ (2001-2019)**  
Karadem Z. G. , Yakıt Ongun M.  
Social Science Studies Journal, vol.6, no.65, pp.2844-2857, 2020 (Refereed Journals of Other Institutions)

- III. **Analysis of Granule Cell Generation System by Lie Symmetry Method**  
KOCABIYIK M., YAKIT ONGUN M.  
Cumhuriyet Science Journal, vol.41, no.1, pp.56-68, 2020 (Refereed Journals of Other Institutions)
- IV. **Explicit and Implicit Schemes for Fractional orders Hantavirus Model,**  
YAKIT ONGUN M., ARSLAN D.  
Iranian Journal Of Numerical Analysis And Optimization, vol.8, no.2, pp.75-93, 2018 (Refereed Journals of Other Institutions)
- V. **Hanta-Virüs Modelinden Elde Edilen Fisher-Kolmogorov Denkleminin Lie Simetri Analizi**  
KOCABIYIK M., YAKIT ONGUN M.  
Süleyman Demirel University Journal of Natural and Applied Sciences, vol.22, pp.754-759, 2018 (Refereed Journals of Other Institutions)
- VI. **Numerical Solutions of Fractional Order Autocatalytic Chemical Reaction Model DOI 10 19113 sdufbed 24679**  
YAKIT ONGUN M., ARSLAN D., Farzi J.  
Süleyman Demirel University Journal of Natural and Applied Sciences, 2017 (Refereed Journals of Other Institutions)
- VII. **Lie symmetry analysis of the Hanta-epidemic systems**  
YAKIT ONGUN M., Kocabiyik M.  
JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE-JMCS, vol.17, no.2, pp.332-344, 2017 (Journal Indexed in ESCI)
- VIII. **Standart ve Standart Olmayan Theta Metotlarının Bazı Uygulamaları ve Sonuçları**  
ER F., YAKIT ONGUN M.  
Suleyman Demirel University Journal of Science(ejournal), vol.11, no.2, pp.109-120, 2016 (Refereed Journals of Other Institutions)
- IX. **Hanta vürüs Modelinden Elde Edilen Lojistik Diferansiyel Denklem**  
KARADEM Z. G. , YAKIT ONGUN M.  
Suleyman Demirel University Journal of Science (e-Journal), vol.11, no.1, pp.82-91, 2016 (Refereed Journals of Other Institutions)
- X. **Arslan, D. Ongun, M.Y., Turhan, I, Nonstandard Finite Difference Schemes for Fuzzy Differential Equations,J. Applied Functional Analysis - Jafa, VOL. 8, NO. 2, 183-193,2013.**  
YAKIT ONGUN M.  
J. Applied Functional Analysis, no.8, pp.183-193, 2013 (Refereed Journals of Other Institutions)
- XI. **Exact Travelling wave solutions of Fitzhugh-Nagumo Equation**  
YAKIT ONGUN M.  
International Journal of pure and Applied Mathematics, no.64, pp.355-365, 2010 (Refereed Journals of Other Institutions)
- XII. **On a Dissipative Schrödinger Problem with a Spectral Parameter in the Boundary Condition**  
YAKIT ONGUN M.  
Bulletin of Pure and Applied Sciences, vol.24, no.1, pp.65-71, 2005 (Refereed Journals of Other Institutions)
- XIII. **On Spectrum of a nonselfadjoint singular Sturm Liouville problem with a spectral parameter in the boundary conditions**  
YAKIT ONGUN M.  
Selçuk J.Appl.Math, vol.5, no.1, pp.59-65, 2004 (Refereed Journals of Other Institutions)

## **Books & Book Chapters**

- I. **Konik Kesitler**  
DAĞHAN H. A., AYTAZ S., ARUĞASLAN ÇİNÇİN D., YAKIT ONGUN M., YÜCESAN A., GÜRDAL M., KIRLAR B. B. , ÖZKAN TÜKEL G., TURHAN T., ŞAHİNER A.  
in: Kalkülüse Giriş, Yusuf Civan, Editor, Nobel, Ankara, pp.219-306, 2017

- II. **3. Bölüm İkinci Dereceden Denklemler ve Fonksiyonlar Eşitsizlikler**  
ŞAHİNER A., ARUĞASLAN ÇİNÇİN D., KIRLAR B. B. , YÜCESAN A., GÜRDAL M., AYTAR S., TURHAN T., YAKIT ONGUN M., DAĞHAN H. A. , ÖZKAN TÜKEL G.  
in: KALKÜLÜSE GİRİŞ: Grafikler ve Modeller - COLLEGE ALGEBRA Graphs and Models, Yusuf Civan, Editor, Nobel, pp.393-474, 2017
- III. **Bölüm 2 Fonksiyonlar Hakkında Daha Fazlası**  
ŞAHİNER A., YÜCESAN A., ARUĞASLAN ÇİNÇİN D., KIRLAR B. B. , ÖZKAN TÜKEL G., DAĞHAN H. A. , GÜRDAL M., YAKIT ONGUN M., AYTAR S., TURHAN T.  
in: Kalkülüse Giriş: Grafikler ve Modeller College Algebra: Graphs and Models, Yusuf Civan, Editor, Nobel Akademik Yayıncılık, pp.93-162, 2017
- IV. **5. Bölüm Üstel ve Logaritmik Fonksiyonlar**  
DAĞHAN H. A. , AYTAR S., ARUĞASLAN ÇİNÇİN D., YAKIT ONGUN M., YÜCESAN A., GÜRDAL M., KIRLAR B. B. , ÖZKAN TÜKEL G., TURHAN T., ŞAHİNER A.  
in: Kalkülüse Giriş: Grafikler ve Modeller, Yusuf Civan, Editor, Nobel, pp.391-482, 2017
- V. **Polinom Fonksiyonlar ve Rasyonel Fonksiyonlar**  
DAĞHAN H. A. , AYTAR S., ARUĞASLAN ÇİNÇİN D., YAKIT ONGUN M., YÜCESAN A., GÜRDAL M., KIRLAR B. B. , ÖZKAN TÜKEL G., TURHAN T., ŞAHİNER A.  
in: Kalkülüse Giriş, Yusuf Civan, Editor, Nobel, pp.219-306, 2017
- VI. **Grafikler, Fonksiyonlar ve Modeller**  
DAĞHAN H. A. , AYTAR S., ARUĞASLAN ÇİNÇİN D., YAKIT ONGUN M., YÜCESAN A., GÜRDAL M., KIRLAR B. B. , ÖZKAN TÜKEL G., TURHAN T., ŞAHİNER A.  
in: Kalkülüse Giriş: Grafikler ve Modeller, Yusuf Civan, Editor, Nobel, Isparta, pp.1-92, 2017
- VII. **Bölüm 3, İkinci Dereceden (Kuadratik) Fonksiyonlar ve Denklemler Eşitsizlikler**  
YAKIT ONGUN M., ŞAHİNER A., YÜCESAN A., ARUĞASLAN ÇİNÇİN D., KIRLAR B. B. , ÖZKAN TÜKEL G., DAĞHAN H. A. , GÜRDAL M., AYTAR S., TURHAN T.  
in: KALKÜLÜSE GİRİŞ: Grafikler ve Modeller - COLLEGE ALGEBRA Graphs and Models, Civan Yusuf, Editor, Nobel Akademik Yayıncılık Eğitim Danışmanlık Tic. Ltd. Şti., Ankara, pp.163-218, 2017
- VIII. **Diziler, Seriler ve Kombinatorikler**  
ŞAHİNER A., YÜCESAN A., ARUĞASLAN ÇİNÇİN D., KIRLAR B. B. , ÖZKAN TÜKEL G., DAĞHAN H. A. , YAKIT ONGUN M., AYTAR S., TURHAN T.  
in: KALKÜLÜSE GİRİŞ: Grafikler ve Modeller, Yusuf Civan, Editor, Nobel Yayıncılık, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **Matematik Öğretmenleri Üzerine Yapılan Tezlerin Amaçlarının İçerik Analizi İle Çözümlemesi(1998-2020), Abstract Book,Page:124**  
Karadem Z. G. , YAKIT ONGUN M.  
2nd International Young Researchers Student Congress, 17 - 19 December 2020
- II. **Dağılımlı Mertebeden SVIR Epidemik Modelinin Nümerik Analizi,Abstract Book, Page:22**  
KOCABIYIK M., YAKIT ONGUN M., TURHAN ÇETİNKAYA İ.  
2nd International Young Researchers Student Congress, 17 - 19 December 2020
- III. **Nonstandard discretization for a model of Glucose-insulin homeostasis,Abstract Book, page:23**  
TURHAN ÇETİNKAYA İ., KOCABIYIK M., YAKIT ONGUN M.  
2nd International Young Researchers Student Congress, 17 - 19 December 2020
- IV. **Nonstandard Discretization Schemes for Some Partial Differential Equations**  
Tezcan G. R. , YAKIT ONGUN M.  
International Young Researchers Student Congress (IYRSC2019), Burdur, Turkey, 28 - 30 November 2019, pp.23
- V. **Some Definitions and Theorems of Distributed Order Fractional Differential Equations**  
TEKELİ F., YAKIT ONGUN M.  
International Young Researchers Student Congress (IYRSC), 28 - 30 November 2019, pp.295

- VI. **``Some Numerical Methods for Distributed order Differential Equations``**, Abstract Book Page 22, International Young Researches Student Congress (IYRSC 2019), <https://iyrsc.mehmetakif.edu.tr/>,Burdur, 28-30 Kasım 2019.  
KOCABIYIK M., YAKIT ONGUN M.  
International Young Researches Student Congress (IYRSC 2019), 28 - 30 November 2019
- VII. **``A new discretization scheme for a computer virus model``**, Abstract Book Page 142, International Conference on Mathematics and Mathematics Education (ICMME 2019), Selçuk University, Konya, July 11-13, 2019, <http://www.icmme2019.selcuk.edu.tr/>  
ÖZDOĞAN N., YAKIT ONGUN M., KOCABIYIK M.  
International Conference on Mathematics and Mathematics Education (ICMME 2019), 11 - 13 July 2019
- VIII. **Local asymptotic stability analysis for a model with Michaelis-Menten type harvesting rate**  
ÖZDOĞAN N., YAKIT ONGUN M.  
International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Turkey, 11 - 13 July 2019, pp.129
- IX. **A new discretization scheme for a computer virus model**  
ÖZDOĞAN N., YAKIT ONGUN M., KOCABIYIK M.  
International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Turkey, 11 - 13 July 2019, pp.131
- X. **Stability Analysis of a Discretized Predator-Prey Model with Beddington DeAngelis Functional Response**  
ÖZDOĞAN N., YAKIT ONGUN M.  
ICAME 2018, 27 - 29 July 2018
- XI. **A Nonstandard Numerical Approach for a Ratio-Dependent Predator-Prey Model**  
ÖZDOĞAN N., YAKIT ONGUN M.  
International Conference on Applied Mathematics in Engineering (ICAME18), 27 June - 29 October 2018
- XII. **``Lie symmetry analysis of an epidemic systems``**, Abstract Book Page 42, III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), August 14-17 2017, Istanbul,Turkey, <http://sdea3.org/en/>  
KOCABIYIK M., YAKIT ONGUN M.  
III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), 14 - 17 August 2017
- XIII. **``Solution of the granule cell generation systems with using Lie symmetry``**, Abstract Book Page 52, III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), August 14-17 2017, Istanbul,Turkey, <http://sdea3.org/en/>  
KOCABIYIK M., YAKIT ONGUN M.  
III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), 14 - 17 August 2017
- XIV. **Kocabiyik M., Ongun M.Y., Solution of the granule cell systems with using Lie symmetry Abstract Book Page 52, III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), August 14-17 2017, Istanbul,Turkey, <http://sdea3.org/en/>**  
Kocabiyik M., YAKIT ONGUN M.  
Differential Equations and Applications (SDEA-III), 14 - 17 August 2017
- XV. **Kocabiyik M., Ongun M.Y., Lie symmetry analysis of an epidemic systems, Abstract Book Page 42, III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), August 14-17 2017, Istanbul,Turkey, <http://sdea3.org/en/>**  
Kocabiyik M., YAKIT ONGUN M.  
III. International Conference on Symmetries, Differential Equations and Applications (SDEA-III), 14 - 17 August 2017
- XVI. **``On solutions of an epidemic system``**, Abstract Book Page 542, International Conference on Mathematics and Mathematics Education (ICMME-2017), May 11-13, 2017, Şanlıurfa, Turkey, <http://theicmme.org>

- KARADEM Z. G. , KOCABIYIK M., YAKIT ONGUN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), 11 - 13 May 2017
- XVII. **Özdoğan N., Ongun M.Y., A Numerical Investigation For a Model with Functional Response, Abstract Book Page :217,24-26 May 2017, Konya, Turkey**  
ÖZDOĞAN N., YAKIT ONGUN M.  
3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017), 24 - 26 May 2017
- XVIII. **Discrete form of caputo fractional order riccati differential equation with generalized piecewise argument**  
Cengiz N., ARUĞASLAN ÇİNÇİN D., YAKIT ONGUN M.  
International Conference on Mathematics and Engineering (ICOME-2017), 10 - 12 May 2017
- XIX. **Karadem Z.G., Kocabiyyik M. Ongun M.Y., On solutions of an epidemic system, Abstract Book Page: 542, May 11-13, 2017, Şanlıurfa, Turkey, <http://theicmme.org>**  
Karadem Z. G. , YAKIT ONGUN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), May 11-13, 2017 , Şanlıurfa, Turkey, 11 - 13 May 2017
- XX. **A Nonstandard Numerical Scheme for Predator-Prey Model with Ratio-Dependent Functional Response, Abstract No:42, <http://ifscm.com>**  
ÖZDOĞAN N., YAKIT ONGUN M.  
4th International Intuitionistic Fuzzy Sets and Contemporary Mathematics Conference – IFSCOM2017” Mersin, Turkey, 3 - 07 May 2017
- XXI. **Özdoğan N., Ongun M.Y., A Discretization Method for The Predator-Prey System with Allee Effect, Abstract No:44, <http://ifscm.com>**  
ÖZDOĞAN N., YAKIT ONGUN M.  
4th International Intuitionistic Fuzzy Sets and Contemporary Mathematics Conference – IFSCOM2017” Mersin, Turkey, 3 - 07 May 2017
- XXII. **A Nonstandard Numerical Scheme for a Predator prey Model with Allee Effect May 19 23 2016 Bodrum Mugla TURKEY**  
ÖZDOĞAN N., YAKIT ONGUN M.  
3rd INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE and APPLIED MATHEMATICS (ICRAPAM 2016), 19 - 23 May 2016
- XXIII. **Er F Ongun M Y Some Results and Applications of Nonstandad Theta Methods**  
Er F., YAKIT ONGUN M.  
The 14th International Conference on Mathematics and its Applications - ICMA 2015, Timisoara, Romania, 5 - 07 November 2015
- XXIV. **Karadem Z G Ongun M Y Arslan D Fractional Order Logistic Equation Derived from Hanta Epidemics**  
Gökçen K., YAKIT ONGUN M., Arslan D.  
The 28th International Conference of The Jangjeon Mathematical Society, Antalya, Turkey, 15 - 19 May 2015
- XXV. **Ongun M Y Arslan D Nonlinear Fuzzy IVPs Using by Nonstandard Finite Difference Schemes**  
YAKIT ONGUN M.  
IFORS 2014, Barselona, Spain, 13 - 18 July 2014
- XXVI. **Arslan D Ongun M Y On Some Numerical Schemes for Fractional Order Autocatalytic Chemical Reaction Model**  
YAKIT ONGUN M.  
Karatekin Mathematics Days, Çankırı, Turkey, 11 - 13 June 2014
- XXVII. **Er F Ongun M Y Standart ve standart olmayan Theta metodu**  
YAKIT ONGUN M.  
13. Matematik sempozyumu, Karabük, Turkey, 15 - 17 May 2014
- XXVIII. **Spectral properties of a nonselfadjoint problem with the parameter in boundary conditions**  
YAKIT ONGUN M.  
XXVI European Conference on Operational Research, Roma, Italy, 1 - 04 July 2013, pp.294

## Scientific Refereeing

Mathematical Reviews (MR3770395), SCI Journal, October 2018

Mathematical Reviews (MR3779079), SCI Journal, October 2018

Mathematical Reviews (MR3717630), SCI Journal, May 2018

Mathematical Reviews (MR3759693), SCI Journal, May 2018

Journal of Applied Mathematics and Computing, SCI Journal, May 2018

Mathematical Reviews (MR3716963), SCI Journal, March 2018

Mathematical Reviews (MR3724770), SCI Journal, March 2018

Mathematical Reviews (MR3692403), SCI Journal, February 2018

International Journal of Bifurcation and Chaos, SCI Journal, January 2018

Mathematical Reviews (MR3682146), SCI Journal, November 2017

Mathematical Reviews (MR3691728 ), SCI Journal, November 2017

Computational Biology and Chemistry, SCI Journal, October 2017

Mathematical Reviews (MR3666617), SCI Journal, September 2017

CHAOS SOLITONS FRACTALS, SCI Journal, September 2017

Mathematical Reviews (MR3651396), SCI Journal, September 2017

Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, Other Indexed Journal, September 2017

Mathematical Reviews (MR3636352), SCI Journal, August 2017

Mathematical Reviews (MR3645724), SCI Journal, July 2017

Differential Equations and Dynamical Systems, Other Indexed Journal, February 2017

Punjab University Journal of Mathematics, Other Indexed Journal, February 2017

## Citations

Total Citations (WOS):23

h-index (WOS):3

## Awards

YAKIT ONGUN M., Fen ve Mühendislik Bilimleri Alanında Birincilik Ödülü, Bilim Geliştirme Derneği, March 2019