

## Doç. Dr. NESİR HÜSEYİN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 232958

### Eğitim Bilgileri

Doktora, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2010 - 2014

Lisans, Anadolu Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 2006 - 2010

### Yabancı Diller

İngilizce, C1 İleri

Azerice, C2 Ustalık

Rusça, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Davranışı afin integral denklem ile verilen kontrol stemin yörüngeler kümesinin özellikleri ve yaklaşık inşası, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, 2014

### Akademik Unvanlar / Görevler

Doç. Dr., Sivas Cumhuriyet Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2021 - Devam Ediyor

Dr. Öğr. Üyesi, Sivas Cumhuriyet Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2015 - 2021

### Verdiği Dersler

Topluma Hizmet Uygulamaları, Lisans, 2020 - 2021

Genel Matematik-II, Lisans, 2020 - 2021

Genel Matematik-I, Lisans, 2020 - 2021

Soyut Matematik, Lisans, 2018 - 2019

Analiz - 3, Lisans, 2019 - 2020

Geometri, Lisans, 2018 - 2019

Analitik Geometri II, Lisans, 2018 - 2019

Temel Matematik II, Lisans, 2018 - 2019

Soyut Matematik II, Lisans, 2018 - 2019

Kısmi Türevli Dif. Denk., Lisans, 2019 - 2020

Soyut Matematik, Lisans, 2018 - 2019  
İlkokulda Temel Matematik, Lisans, 2019 - 2020  
Öğretmenlik Uygulaması - II, Lisans, 2018 - 2019  
Geometri (Seçmeli), Lisans, 2019 - 2020  
Analitik Geometri II, Lisans, 2017 - 2018  
Genel Matematik, Lisans, 2018 - 2019  
Genel Matematik - II, Lisans, 2016 - 2017  
Analitik Geometri - II, Lisans, 2015 - 2016  
Analitik Geometri - I, Lisans, 2015 - 2016  
Temel Matematik I, Lisans, 2015 - 2016

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Approximation of the set of integrable trajectories of the control system with  $L_2$  norm constraints on control functions**  
Hüseyin N., Hüseyin A., Guseinov K.  
Evolution Equations and Control Theory, cilt.13, sa.4, ss.1212-1228, 2024 (SCI-Expanded)
- II. **On the semicontinuity properties of the set of trajectories of the nonlinear control systems with integral constraints on the control functions**  
HÜSEYİN N.  
International Journal of Control, 2024 (SCI-Expanded)
- III. **On the robustness of the integrable trajectories of the control systems with limited control resources**  
Hüseyin N., Hüseyin A., Guseinov K.  
ARCHIVES OF CONTROL SCIENCES, cilt.33, sa.3, ss.527-537, 2023 (SCI-Expanded)
- IV. **Approximation of the image of the  $L_p$  ball under Hilbert-Schmidt integral operator**  
Hüseyin N.  
DEMONSTRATIO MATHEMATICA, cilt.56, sa.1, ss.1-8, 2023 (SCI-Expanded)
- V. **Approximations of the Images and Integral Funnels of the  $L_p$  Balls under a Urysohn-Type Integral Operator**  
Hüseyin A., Hüseyin N., Guseinov K. G.  
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS, cilt.56, sa.4, ss.269-281, 2022 (SCI-Expanded)
- VI. **Approximations of the set of trajectories and integral funnel of the non-linear control systems with  $L_p$  norm constraints on the control functions**  
Hüseyin N., Hüseyin A., Guseinov K. G.  
IMA JOURNAL OF MATHEMATICAL CONTROL AND INFORMATION, cilt.39, sa.4, ss.1213-1231, 2022 (SCI-Expanded)
- VII. **Аппроксимации образов и интегральных воронок шаров в пространстве  $L_p$  под действием интегрального оператора урысоновского типа**  
Hüseyin A., Hüseyin N., Guseinov K.  
ФУНКЦИОНАЛЬНЫЙ АНАЛИЗ И ЕГО ПРИЛОЖЕНИЯ, cilt.56, sa.4, ss.43-58, 2022 (SCI-Expanded)
- VIII. **Continuity of  $L_p$  Balls and an Application to Input-Output Systems**  
HÜSEYİN A., HÜSEYİN N., Guseinov K. G.  
MATHEMATICAL NOTES, cilt.111, sa.1-2, ss.58-70, 2022 (SCI-Expanded)
- IX. **On the properties of the set of  $p$ -integrable trajectories of the control system with limited control resources**  
HÜSEYİN N.  
INTERNATIONAL JOURNAL OF CONTROL, cilt.93, sa.8, ss.1810-1816, 2020 (SCI-Expanded)
- X. **Approximation of the Set of Trajectories of the Nonlinear Control System with Limited Control Resources**

- HÜSEYİN N., HÜSEYİN A., Guseinov K.  
MATHEMATICAL MODELLING AND ANALYSIS, cilt.23, sa.1, ss.152-166, 2018 (SCI-Expanded)
- XI. **On the compactness of the set of L-2 trajectories of the control system**  
HÜSEYİN N., HÜSEYİN A.  
NONLINEAR ANALYSIS-MODELLING AND CONTROL, cilt.23, sa.3, ss.423-436, 2018 (SCI-Expanded)
- XII. **Compactness of the set of trajectories of the control system described by a Urysohn type integral equation with quadratic integral constraints on the control functions**  
Alias I. A., HÜSEYİN N., HÜSEYİN A.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2016 (SCI-Expanded)
- XIII. **Approximate construction of the set of trajectories of the control system described by a Volterra integral equation**  
Huseyin N., Guseinov K. G., Ushakov V. N.  
MATHEMATISCHE NACHRICHTEN, cilt.288, sa.16, ss.1891-1899, 2015 (SCI-Expanded)
- XIV. **Approximation of the Sections of the Set of Trajectories of the Control System Described by a Nonlinear Volterra Integral Equation**  
HÜSEYİN A., HÜSEYİN N., Guseinov K. G.  
MATHEMATICAL MODELLING AND ANALYSIS, cilt.20, sa.4, ss.502-515, 2015 (SCI-Expanded)
- XV. **Dependence on the parameters of the set of trajectories of the control system described by a nonlinear Volterra integral equation**  
Huseyin A., Huseyin N.  
APPLICATIONS OF MATHEMATICS, cilt.59, sa.3, ss.303-317, 2014 (SCI-Expanded)
- XVI. **Compactness of the set of trajectories of the controllable system described by an affine integral equation**  
Huseyin N., Huseyin A.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.219, sa.16, ss.8416-8424, 2013 (SCI-Expanded)
- XVII. **ON THE POSITIVE LINEAR SET VALUED MAPS**  
Huseyin A., Huseyin N.  
MISKOLC MATHEMATICAL NOTES, cilt.14, sa.1, ss.111-123, 2013 (SCI-Expanded)
- XVIII. **Precompactness of the Set of Trajectories of the Controllable System Described by a Nonlinear Volterra Integral Equation**  
Huseyin A., Huseyin N.  
MATHEMATICAL MODELLING AND ANALYSIS, cilt.17, sa.5, ss.686-695, 2012 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Urysohn Tür İntegral Denklem ile Verilen Kontrol Sistemin Yörüngeler Kümesinin Özellikleri Üzerine**  
Hüseyin N.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, cilt.11, sa.4, ss.1772-1781, 2023 (Hakemli Dergi)
- II. **On the Properties of the Set of Trajectories of the Nonlinear Control System with Quadratic Integral Constraint on the Control Functions**  
Hüseyin A., Hüseyin N.  
Ural Mathematical Journal, cilt.9, sa.1, ss.93-103, 2023 (Scopus)
- III. **On the continuity properties of the  $L_p$  balls**  
Hüseyin N., Hüseyin A.  
JOURNAL OF APPLIED ANALYSIS, cilt.29, sa.1, ss.151-159, 2023 (ESCI)
- IV. **On the Robustness of Continuous Trajectories of the Nonlinear Control System Described by an Integral Equation**  
Hüseyin N., Hüseyin A.  
JOURNAL OF THE KOREAN SOCIETY OF MATHEMATICAL EDUCATION SERIES B-PURE AND APPLIED MATHEMATICS, cilt.30, sa.2, ss.191-201, 2023 (ESCI)

- V. **Upper and lower directional derivative sets and differentials of the set valued maps**  
Ege N., Hüseyin A., Hüseyin N.  
Vestnik Udmurtskogo Universiteta. Matematika. Mekhanika. Komp'yuternye Nauki, cilt.32, sa.3, ss.403-414, 2022 (ESCI)
- VI. **On the Properties of the Set of Trajectories of Nonlinear Control Systems with Integral Constraints on the Control Functions**  
Hüseyin N., Hüseyin A., Guseinov K.  
Trudy Instituta Matematiki i Mekhaniki UrO RAN, cilt.28, sa.3, ss.274-284, 2022 (ESCI)
- VII. **ON THE ROBUSTNESS PROPERTY OF A CONTROL SYSTEM DESCRIBED BY AN URYSOHN TYPE INTEGRAL EQUATION**  
HÜSEYİN N., HÜSEYİN A., Guseinov K. G.  
TRUDY INSTITUTA MATEMATIKI I MEKHANIKI URO RAN, cilt.27, sa.3, 2021 (ESCI)
- VIII. **Approximation of the Integral Funnel of a Nonlinear Control System with Limited Control Resources**  
Hüseyin A., Hüseyin N., Guseinov K.  
Minimax Theory and its Applications, cilt.5, sa.2, ss.327-346, 2020 (ESCI)
- IX. **Approximation of sections of the set of trajectories for a control system with bounded control resources**  
Huseyin A., Huseyin N., Guseinov K.  
TRUDY INSTITUTA MATEMATIKI I MEKHANIKI URO RAN, cilt.23, sa.1, ss.116-127, 2017 (ESCI)
- X. **Compactness of the Set of Trajectories of the Control System Described by a Urysohn Type Integral Equation**  
HÜSEYİN N.  
An International Journal of Optimization and Control: Theories Applications (IJOCTA), cilt.7, sa.1, ss.59-65, 2017 (Hakemli Dergi)
- XI. **Approximation of the set of trajectories of a control system described by the Urysohn integral equation**  
Huseyin N., Huseyin A., Guseinov K. G.  
TRUDY INSTITUTA MATEMATIKI I MEKHANIKI URO RAN, cilt.21, sa.2, ss.59-72, 2015 (ESCI)

## **Kitap & Kitap Bölümleri**

- I. **Analiz ve Cebirden Olimpiyat Problemleri**  
HÜSEYİN A., HÜSEYİN N., KHALİK G.  
Sinopsis, 2014

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Continuity of  $L_p$  Balls and Application to the Nonlinear Control Systems**  
Hüseyin A., Hüseyin N., Guseinov K.  
International Conference "Dynamic Systems: Stability, Control, Differential Games" (SCDG`2024) devoted to the 100-th anniversary of Academician N.N. Krasovskii, Jekaterinburg, Rusya, 9 - 13 Eylül 2024, ss.459-462
- II. **Approximations of the set of outputs and integral funnel of a nonlinear input-output systems**  
Hüseyin N., Hüseyin A., Guseinov K.  
International Conference on Mathematical Modeling with Modern Applications (M3A\_24), İstanbul, Türkiye, 4 - 06 Haziran 2024, ss.42
- III. **On the Robustness of the Trajectories of Nonlinear Control Systems with Respect to the Remaining Control Resource**  
Hüseyin N., Huseyin A., Guseinov K.  
8th International School-Seminar "Nonlinear Analysis and Extremal Problems" (NLA-2024), Irkutsk, Rusya, 24 - 28

Haziran 2024, ss.116

- IV. **On the Robustness of the Trajectories of Control Systems with Respect to Fast Consumption of the Control Resource**  
Hüseyin N., Hüseyin A., Guseinov K. G.  
2nd International Symposium on Current Developments in Fundamental and Applied Mathematics Sciences (ISCDFAMS-2023), Ankara, Türkiye, 14 - 17 Kasım 2023, ss.38
- V. **On the properties of the set of trajectories of the nonlinear control systems with limited control resources**  
Hüseyin A., Hüseyin N., Guseinov K.  
International Conference "Optimal Control Theory and Applications" (OCTA'2022 - Satellite Conference for International Congress of Mathematicians (ICM 2022)), Jekaterinburg, Rusya, 27 Haziran - 01 Temmuz 2022, ss.304-307
- VI. **On the control system described by Urysohn type integral equation**  
Hüseyin N., Hüseyin A., Guseinov K.  
Control Theory and Theory of Generalized Solutions of Hamilton–Jacobi Equations (CGS'20), Jekaterinburg, Rusya, 26 - 30 Ekim 2020, ss.42-45
- VII. **On the Structure of the Set Valued Maps**  
HÜSEYİN A., HÜSEYİN N., GUSEINOV K.  
International Conference on Mathematics, Türkiye, 3 - 06 Temmuz 2018, ss.143
- VIII. **On the Properties of the Set of Trajectories of the Control System with Limited Control Resources and Described by Volterra Integral Equation**  
HÜSEYİN H., HÜSEYİN A., HÜSEYİN N.  
The 11th Dynamical Systems, Mathematical, Physical Sciences and Engineering Applications, Davao, Filipinler, 9 - 12 Mayıs 2018, ss.14-15
- IX. **Approximation of the family of solutions of the Urysohn integral equation**  
HÜSEYİN N., HÜSEYİN A., GUSEINOV K.  
2nd International Conference Mathematics and Mathematics Education (ICMME'xx2017), Şanlıurfa, Türkiye, 11 - 13 Mayıs 2017, ss.232-233
- X. **Approximation of the set of trajectories of the control system with limited control resources**  
GUSEINOV K., HÜSEYİN N., HÜSEYİN A.  
22nd International Conference Mathematical Modelling and Analysis (MMA2017), Druskininkai, Litvanya, 30 Mayıs - 02 Haziran 2017, ss.21
- XI. **Attainable Set of a Sir Epidemiological Model with Constraint on Vaccination and Treatment Stocks**  
NAZLIPINAR A. S., HÜSEYİN A., HÜSEYİN N.  
5th International Eurasian Conference on Mathematical Sciences and Applications, Sırbistan Ve Karadağ, 16 - 19 Ağustos 2016, ss.81
- XII. **Properties and Approximate Construction of the Set of Trajectories of the Control System with Integral Constraint on the Control Functions**  
HÜSEYİN N., HÜSEYİN A., GUSEINOV K.  
Asian Mathematical Conference 2016, Endonezya, 25 - 29 Temmuz 2016
- XIII. **Properties and Approximation of the Set of Trajectories of the Control Systems with Limited Control Recourses**  
HÜSEYİN N., HÜSEYİN A., GUSEINOV K.  
3rd International Conference on Structural Nonlinear Dynamics and Diagnosis. (CSNND 2016), Marrakech, Fas, 23 - 25 Mayıs 2016, ss.52
- XIV. **Approximate Construction of the Sections of the Set of Trajectories of the Control System**  
GUSEINOV K., HÜSEYİN A., HÜSEYİN N.  
5th International Conference on Mathematics and Information Science (ICMIS 2016), Kahire, Mısır, 11 - 13 Şubat 2016, ss.97-98
- XV. **Approximation of the set of trajectories of the control system described by an affine Volterra type integral equation**

HÜSEYİN N., HÜSEYİN A., KHALİK G., USHAKOV V.

International Conference on Pure and Applied Mathematics, Van, Türkiye, 25 - 28 Ağustos 2015, ss.111

- XVI. **Approximation of the set of trajectories of the control system with integral constraint on the controls and described by a Urysohn type integral equation**

HÜSEYİN N., HÜSEYİN A., KHALİK G.

2nd international seminar "Control Theory and Theory of Generalized Solutions of Hamilton-Jacobi Equations", Jekaterinburg, Rusya, 1 - 03 Nisan 2015, ss.162-163

- XVII. **On the Set of Trajectories of the Control Systems with Limited Control Resources**

Huseyin N., Huseyin A., Guseinov K. G.

8th International Conference on Curves and Surfaces, Paris, Fransa, 12 - 18 Haziran 2014, cilt.9213, ss.280-288

- XVIII. **On properties of trajectories set of control system described by an affine integral equation**

HÜSEYİN N., HÜSEYİN A., KHALİK G.

International conference "Systems Dynamics and Control Processes", Jekaterinburg, Rusya, 15 - 20 Eylül 2014, ss.239-240

- XIX. **Upper and Lower Differentials and Directional Derivative Sets of the Set Valued Maps**

ALTAY S., EGE N., HÜSEYİN A., HÜSEYİN N.

3rd International Eurasian Conference on Mathematical Sciences and Applications, Vyana, Avusturya, 25 - 28 Ağustos 2014, ss.119

- XX. **On the Set of Trajectories of the Control Systems with Limited Control Resources**

HÜSEYİN N., HÜSEYİN A., KHALİK G.

8th International Conference "Curves and Surfaces", Paris, Fransa, 12 - 18 Haziran 2014, ss.40

- XXI. **On the Control Systems with Limited Control Resources and Governed by the Nonlinear Integral Equation**

HÜSEYİN A., HÜSEYİN N., KHALİK G.

International Seminar "Nonlinear Phenomenology Advances", St. Petersburg, Rusya, 1 - 05 Ekim 2013, ss.27

- XXII. **Precompactness of the Set of Trajectories of the Control System with Integral Constraint on the Control Functions**

HÜSEYİN A., HÜSEYİN N.

International Seminar "Nonlinear Phenomenology Advances", St. Petersburg, Rusya, 1 - 05 Ekim 2013, ss.28

- XXIII. **On the Compactness of the Set of Trajectories of Control System Described by an Affine Volterra Type Integral Equation**

HÜSEYİN N., HÜSEYİN A.

International Seminar "Nonlinear Phenomenology Advances", St. Petersburg, Rusya, 1 - 05 Ekim 2013, ss.28

- XXIV. **On the Existence of the  $\varepsilon$ -Optimal Trajectories of the Control System Described by a Nonlinear Volterra Integral Equation**

Huseyin N., Huseyin A., Guseinov K.

International Conference on Approximation Theory and Applications, Kowloon, Hong Kong, 20 - 24 Mayıs 2013, ss.22

- XXV. **Existence of the Optimal Trajectories of the Controllable System Described by an Affine Integral Equation**

Huseyin N., Huseyin A., Guseinov K.

4th International Conference on Problems of Cybernetics and Informatics (PCI), Bakı, Azerbaycan, 12 - 14 Eylül 2012

## Desteklenen Projeler

Hüseyin N., Hüseyin A., Guseinov K., Yükseköğretim Kurumları Destekli Proje, Kontrol Kaynakları Sınırlı Olan Kontrol Sistemin Yörüngeler Kümesinin Özellikleri, 2019 - 2020

Hüseyin N., Hüseyin A., Guseinov K., Yükseköğretim Kurumları Destekli Proje, Davranışı Urysohn İntegral Denklemi ile Verilen ve Kontrol Fonksiyonları İntegral Kısıtlı Olan Kontrol Sistemlerin Yörüngeler Kümesinin Özellikleri ve Yaklaşık

Yapılandırılması, 2016 - 2017

Hüseyin N., Hüseyin A., Guseinov K., Yükseköğretim Kurumları Destekli Proje, Doğrusal Olmayan İntegral Denklemlerle Tasvir Edilen Kontrol Sistemin Özellikleri Proje no 1306F171 Anadolu Üniversitesi Bilimsel Araştırma Fonu tarafından desteklenmiştir, 2013 - 2014

## **Bilimsel Hakemlikler**

INTERNATIONAL JOURNAL OF CONTROL, SCI Kapsamındaki Dergi, Ocak 2020

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, SCI Kapsamındaki Dergi, Aralık 2019

## **Metrikler**

Yayın: 55

Atf (WoS): 85

Atf (Scopus): 71

H-İndeks (WoS): 6

H-İndeks (Scopus): 5