

## Assoc. Prof. NESİR HÜSEYİN

### Personal Information

**Email:** nhuseyin@cumhuriyet.edu.tr

**Web:** <https://avesis.cumhuriyet.edu.tr/nhuseyin>

### Education Information

Doctorate, Anadolu University, Institute Of Science, Turkey 2010 - 2014

Undergraduate, Anadolu University, Faculty Of Science, Department Of Mathematics, Turkey 2006 - 2010

### Foreign Languages

English, C1 Advanced

Azerbaijani, C2 Mastery

Russian, B2 Upper Intermediate

### Dissertations

Doctorate, Davranışı afin integral denklem ile verilen kontrol stemin yörüngeler kümesinin özellikleri ve yaklaşık inşası, Anadolu University, Institute Of Science, 2014

### Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2021 - Continues

Assistant Professor, Sivas Cumhuriyet University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2015 - 2021

### Courses

Topluma Hizmet Uygulamaları, Undergraduate, 2020 - 2021

Genel Matematik-II, Undergraduate, 2020 - 2021

Genel Matematik-I, Undergraduate, 2020 - 2021

Soyut Matematik, Undergraduate, 2018 - 2019

Analiz - 3, Undergraduate, 2019 - 2020

Geometri, Undergraduate, 2018 - 2019

Analitik Geometri II, Undergraduate, 2018 - 2019

Temel Matematik II, Undergraduate, 2018 - 2019

Soyut Matematik II, Undergraduate, 2018 - 2019

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

Soyut Matematik, Undergraduate, 2018 - 2019

İlkokulda Temel Matematik, Undergraduate, 2019 - 2020

Öğretmenlik Uygulaması - II, Undergraduate, 2018 - 2019

Geometri (Seçmeli), Undergraduate, 2019 - 2020  
Analitik Geometri II, Undergraduate, 2017 - 2018  
Genel Matematik, Undergraduate, 2018 - 2019  
Genel Matematik - II, Undergraduate, 2016 - 2017  
Analitik Geometri - II, Undergraduate, 2015 - 2016  
Analitik Geometri - I, Undergraduate, 2015 - 2016  
Temel Matematik I, Undergraduate, 2015 - 2016

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

- I. **On the properties of the set of  $p$ -integrable trajectories of the control system with limited control resources**  
HÜSEYİN N.  
INTERNATIONAL JOURNAL OF CONTROL, vol.93, no.8, pp.1810-1816, 2020 (Journal Indexed in SCI)
- II. **On the compactness of the set of  $L_2$  trajectories of the control system**  
HÜSEYİN N., HÜSEYİN A.  
NONLINEAR ANALYSIS-MODELLING AND CONTROL, vol.23, no.3, pp.423-436, 2018 (Journal Indexed in SCI)
- III. **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, vol.23, no.1, pp.152-166, 2018 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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, vol.288, no.16, pp.1891-1899, 2015 (Journal Indexed in SCI)
- VI. **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, vol.20, no.4, pp.502-515, 2015 (Journal Indexed in SCI)
- VII. **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, vol.59, no.3, pp.303-317, 2014 (Journal Indexed in SCI)
- VIII. **Compactness of the set of trajectories of the controllable system described by an affine integral equation**  
Huseyin N., Huseyin A.  
APPLIED MATHEMATICS AND COMPUTATION, vol.219, no.16, pp.8416-8424, 2013 (Journal Indexed in SCI)
- IX. **ON THE POSITIVE LINEAR SET VALUED MAPS**  
Huseyin A., Huseyin N.  
MISKOLC MATHEMATICAL NOTES, vol.14, no.1, pp.111-123, 2013 (Journal Indexed in SCI)
- X. **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, vol.17, no.5, pp.686-695, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **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, vol.5, no.2, pp.327-346, 2020 (Journal Indexed in ESCI)
- II. **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, vol.23, no.1, pp.116-127, 2017 (Journal Indexed in ESCI)
- III. **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), vol.7, no.1, pp.59-65, 2017 (Refereed Journals of Other Institutions)
- IV. **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, vol.21, no.2, pp.59-72, 2015 (Journal Indexed in ESCI)
- V. **On the Directional Derivative Sets and Differentials of the Set Valued Maps**  
Altay S., Ege N., Hüseyin A., Hüseyin N.  
ArXiv, vol.14064337, pp.1-15, 2014 (Non-Refreed Journal)

## Books & Book Chapters

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

## Refereed Congress / Symposium Publications in Proceedings

- I. **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, Russia, 26 - 30 October 2020, pp.42-45
- II. **On the Structure of the Set Valued Maps**  
HÜSEYİN A., HÜSEYİN N., GUSEINOV K.  
International Conference on Mathematics, Turkey, 3 - 06 July 2018, pp.143
- III. **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, Philippines, 9 - 12 May 2018, pp.14-15
- IV. **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, Turkey, 11 - 13 May 2017, pp.232-233
- V. **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, Lithuania, 30 May - 02 June 2017, pp.21
- VI. **Attainable Set of a Sir Epidemiological Model with Constraintson Vaccination and Treatment Stocks**

NAZLIPINAR A. S. , HÜSEYİN A., HÜSEYİN N.

5th International Eurasian Conference on Mathematical Sciences and Applications, Serbia And Montenegro, 16 - 19 August 2016, pp.81

- VII. **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, Indonesia, 25 - 29 July 2016
- VIII. **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, Morocco, 23 - 25 May 2016, pp.52
- IX. **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, Egypt, 11 - 13 February 2016, pp.97-98
- X. **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, Turkey, 25 - 28 August 2015, pp.111
- XI. **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, Russia, 1 - 03 April 2015, pp.162-163
- XII. **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, France, 12 - 18 June 2014, vol.9213, pp.280-288
- XIII. **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, Russia, 15 - 20 September 2014, pp.239-240
- XIV. **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, Austria, 25 - 28 August 2014, pp.119
- XV. **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, France, 12 - 18 June 2014, pp.40
- XVI. **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, Russia, 1 - 05 October 2013, pp.28
- XVII. **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, Russia, 1 - 05 October 2013, pp.27
- XVIII. **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, Russia, 1 - 05 October 2013, pp.28

- XIX. **On the Existence of the  $\varepsilon$ -Optimal Trajectories of the Control System Described by a Nonlinear Volterra Integral Equation**  
Hüseyin N., Huseyin A., Guseinov K.  
International Conference on Approximation Theory and Applications, Kowloon, Hong Kong, 20 - 24 May 2013, pp.22
- XX. **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), Baku, Azerbaijan, 12 - 14 September 2012

## Supported Projects

Hüseyin N., Hüseyin A., Guseinov K., Project Supported by Higher Education Institutions, 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., Project Supported by Higher Education Institutions, Doğrusal Olmayan İntegral Denklemlerle Tasvir Edilen Kontrol Sistemin Özellikleri Proje no 1306F171 Anadolu Üniversitesi Bilimsel Araştırma Fonu tarafından desteklenmiştir, 2013 - 2014

## Scientific Refereeing

INTERNATIONAL JOURNAL OF CONTROL, SCI Journal, January 2020  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, SCI Journal, December 2019

## Citations

Total Citations (WOS):41  
h-index (WOS):4