

# Prof. NURHAYAT İSPİR

## Personal Information

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## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1985 - 1989

Post Graduate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1982 - 1985

Under Graduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1978 - 1982

## Dissertations

Doctorate, Riemann yüzeyleri üzerinde holomorfik ve meromorfik fonksiyonların halkaları, Ankara University, Institute Of Science, Matematik (Dr), 1989

Post Graduate, Örtme Yüzeyleri Olarak Riemann Yüzeyleri, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1985

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2009 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2004 - 2009

Assistant Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2002 - 2004

Assistant Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 1990 - 2002

Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 1983 - 1990

## Academic and Administrative Experience

Gazi University, Fen Fakültesi, Matematik Bölümü, 2018 - Continues

Gazi University, Fen Fakültesi, Matematik Bölümü, 2009 - Continues

Gazi University, Fen Fakültesi, Matematik Bölümü, 2002 - 2005

Ankara University, Fen Fakültesi, Matematik Bölümü, 1994 - 1996

## Courses

MAT2003 AnalizIII, Under Graduate, 2017 - 2018

LİNEER POZİTİF OPERATÖR DİZLERİNİN YAKLAŞIM ÖZL.I, Post Graduate, 2017 - 2018

LİNEER POZİTİF OPERATÖR DİZLERİNİN YAKLAŞIM ÖZL.II, Post Graduate, 2017 - 2018

## Advising Theses

- İSPİR N., King tip genelleştirilmiş Szász-Sheffer operatörleri ile yaklaşım, Post Graduate, T.KOÇ(Student), 2020
- İSPİR N., Lupaş-Szász taban fonksiyonlarına bağlı toplamsal-integral tipli gbs operatörleri ile yaklaşım, Doctorate, N.MANAV(Student), 2019
- İSPİR N., Approximation By Nonlinear Bernstein Type Maximum-Product Operators, Ş.Yüksel(Student), 2018
- İSPİR N., Lineer olmayan bernstein tip maksimum-çarpım operatörleri ile yaklaşım, Doctorate, Ş.YÜKSEL(Student), 2018
- İSPİR N., The Approximation Properties Of Bivariate Schurer-Stancu Type Operators, Post Graduate, G.AKSOY(Student), 2016
- İSPİR N., Approximation By Generalized Complex Genuine Szász- Durrmeyer Operators, Doctorate, N.ÇETİN(Student), 2015
- İSPİR N., Approximation properties of complex q-balazs-szabados operators, Doctorate, E.YILDIZ(Student), 2014
- İSPİR N., Approximation by complex Bernstein-Stancu polynomials in compact disks, Post Graduate, M.ALTINOK(Student), 2013
- İSPİR N., Appoximation by complex baskakov operators to analitic functions, Post Graduate, N.MANAV(Student), 2013
- İSPİR N., Korovkin-type theorems, Post Graduate, Ş.YÜKSEL(Student), 2012
- İSPİR N., Approximation by complex kantorovich-schurer polynomials in compact disks, Post Graduate, H.AĞBULUT(Student), 2012
- İSPİR N., Szasz-Durrmeyer operatörleri ile global yaklaşım, Post Graduate, H.ÖZDOĞAN(Student), 2010
- İSPİR N., Toplamsal integral tip operatörlerin yaklaşım özellikleri, Doctorate, İ.YÜKSEL(Student), 2006
- İSPİR N., Toplamsal integral tipoperatörlerin ağırlıklı yaklaşım özellikleri, Post Graduate, H.MÜCELLA(Student), 2006
- İSPİR N., Schurer-szasz operatörleri ile yaklaşım, Post Graduate, T.AZAP(Student), 2005
- İSPİR N., Baskakov-Schurer operatörleri ile ağırlıklı yaklaşım, Post Graduate, İ.ÖCAL(Student), 2005
- İSPİR N., Rasyonel tip Bernstein operatörleri ile yaklaşım, Post Graduate, M.ÜNSAL(Student), 2005
- İSPİR N., Birim dairenin ve üst yarı düzlemin otomorfizm grupları ve Schwarz lemması, Post Graduate, P.EVCİ(Student), 1999
- İSPİR N., Bikompleks değişkenli holomorf fonksiyonların cebirleri, Post Graduate, Ö.ÖZMEN(Student), 1995
- İSPİR N., Homotopi teorisi ve cauchy integral teoremi, Post Graduate, Ş.KILIÇOĞLU(Student), 1992

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

- I. **Quantitative Estimates of Generalized Boolean Sum Operators of Blending Type**  
Agrawal P. N. , İSPİR N., Sidharth M.  
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.39, no.3, pp.295-307, 2018 (Journal Indexed in SCI)
- II. **Approximation by (p,q)-Analogue of Balazs-Szabados Operators**  
Ozkan E., İSPİR N.  
FILOMAT, vol.32, no.6, pp.2257-2271, 2018 (Journal Indexed in SCI)
- III. **Approximation by Bernstein-Chlodowsky operators of max-product kind**  
GÜNGÖR Ş. Y. , İSPİR N.  
MATHEMATICAL COMMUNICATIONS, vol.23, no.2, pp.205-225, 2018 (Journal Indexed in SCI)
- IV. **Kantorovich variant of a new kind of q-Bernstein-Schurer operators**  
Ruchi R., İSPİR N., Agrawal P. N.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.40, no.16, pp.5687-5706, 2017 (Journal Indexed in SCI)
- V. **Blending type approximation by q-generalized Boolean sum of Durrmeyer type**  
Sidharth M., İSPİR N., Agrawal P. N.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.40, no.11, pp.3901-3911, 2017 (Journal Indexed in

SCI)

- VI. **A new kind of Bernstein-Schurer-Stancu-Kantorovich-type operators based on q-integers**  
Chauhan R., İSPİR N., Agrawal P. N.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2017 (Journal Indexed in SCI)
- VII. **BEZIER VARIANT OF MODIFIED SRIVASTAVA-GUPTA OPERATORS**  
Neer T., İSPİR N., Agrawal P. N.  
REVISTA DE LA UNION MATEMATICA ARGENTINA, vol.58, no.2, pp.199-214, 2017 (Journal Indexed in SCI)
- VIII. **Quantitative Estimates for GBS Operators of Chlodowsky-Szasz Type**  
İSPİR N.  
FILOMAT, vol.31, no.5, pp.1175-1184, 2017 (Journal Indexed in SCI)
- IX. **Quantitative Estimates for Generalized Szasz Operators of Max-Product Kind**  
GÜNGÖR Ş. Y. , İSPİR N.  
RESULTS IN MATHEMATICS, vol.70, pp.447-456, 2016 (Journal Indexed in SCI)
- X. **GBS Operators of LupaAY-Durrmeyer Type Based on Polya Distribution**  
Agrawal P. N. , İSPİR N., Kajla A.  
RESULTS IN MATHEMATICS, vol.69, pp.397-418, 2016 (Journal Indexed in SCI)
- XI. **Degree of Approximation for Bivariate Chlodowsky-Szasz-Charlier Type Operators**  
Agrawal P. N. , İSPİR N.  
RESULTS IN MATHEMATICS, vol.69, pp.369-385, 2016 (Journal Indexed in SCI)
- XII. **Quantitative estimates for a certain bivariate Chlodowsky-Szasz-Kantorovich type operators**  
İSPİR N., BÜYÜKYAZICI İ.  
MATHEMATICAL COMMUNICATIONS, vol.21, no.1, pp.31-44, 2016 (Journal Indexed in SCI)
- XIII. **q-Bernstein-Schurer-Durrmeyer type operators for functions of one and two variables**  
Kajla A., İSPİR N., Agrawal P. N. , Goyal M.  
APPLIED MATHEMATICS AND COMPUTATION, vol.275, pp.372-385, 2016 (Journal Indexed in SCI)
- XIV. **Approximation of B-continuous and B-differentiable functions by GBS operators of q-Bernstein-Schurer-Stancu type**  
Sidharth M., İSPİR N., Agrawal P. N.  
TURKISH JOURNAL OF MATHEMATICS, vol.40, no.6, pp.1298-1315, 2016 (Journal Indexed in SCI)
- XV. **GBS operators of Bernstein-Schurer-Kantorovich type based on q-integers**  
Sidharth M., İSPİR N., Agrawal P. N.  
APPLIED MATHEMATICS AND COMPUTATION, vol.269, pp.558-568, 2015 (Journal Indexed in SCI)
- XVI. **Approximation properties of Bezier-summation-integral type operators based on Polya-Bernstein functions**  
Agrawal P. N. , İSPİR N., Kajla A.  
APPLIED MATHEMATICS AND COMPUTATION, vol.259, pp.533-539, 2015 (Journal Indexed in SCI)
- XVII. **Approximation Properties of Complex Modified Genuine Szasz-Durrmeyer Operators**  
Cetin N., İSPİR N.  
COMPUTATIONAL METHODS AND FUNCTION THEORY, vol.14, no.4, pp.623-638, 2014 (Journal Indexed in SCI)
- XVIII. **APPROXIMATION BY COMPLEX MODIFIED SZASZ-MIRAKJAN OPERATORS**  
Cetin N., İSPİR N.  
STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, vol.50, no.3, pp.355-372, 2013 (Journal Indexed in SCI)
- XIX. **Approximation properties of complex q-Balazs-Szabados operators in compact disks**  
İSPİR N., Ozkan E.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (Journal Indexed in SCI)
- XX. **On Kantorovich process of a sequence of the generalized linear positive operators**  
İSPİR N., ARAL A., Dogru O.  
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.29, pp.574-589, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **SUMMATION-INTEGRAL TYPE OPERATORS BASED ON LUPAS-JAIN FUNCTIONS**  
Manav N., İSPİR N.  
KRAGUJEVAC JOURNAL OF MATHEMATICS, vol.45, no.2, pp.309-322, 2021 (Journal Indexed in ESCI)
- II. **Bivariate  $q$ -Bernstein-Chlodowsky-Durrmeyer type operators and the associated GBS operators**  
Garg T., İSPİR N., Agrawal P. N.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.13, no.5, 2020 (Journal Indexed in ESCI)
- III. **Degree of approximation of genuine Lupas-Durrmeyer operators**  
Manav N., İSPİR N.  
TBILISI MATHEMATICAL JOURNAL, vol.12, no.2, pp.119-135, 2019 (Journal Indexed in ESCI)
- IV. **APPROXIMATION BY THE SUMMATION INTEGRAL TYPE OPERATORS BASED ON LUPAS-SZASZ BASIS FUNCTIONS**  
Manav N., İSPİR N.  
JOURNAL OF SCIENCE AND ARTS, no.4, pp.853-868, 2018 (Journal Indexed in ESCI)
- V. **Blending Type Approximation by Bivariate Bernstein-Kantorovich operators**  
Deshwal S., İSPİR N., Agrawal P.  
Applied Mathematics & Information Sciences, vol.11, no.2, pp.423-432, 2017 (Refereed Journals of Other Institutions)
- VI. **Shape preserving properties of generalized Szász operators of max-product kind**  
GÜNGÖR Ş. Y. , İSPİR N.  
General Mathematics, vol.1, no.24, pp.71-79, 2016 (Refereed Journals of Other Institutions)
- VII. **Approximation properties of Lupas-Kantorovich operators based on Polya distribution**  
Agrawal P. N. , İSPİR N., Kajla A.  
RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO, vol.65, no.2, pp.185-208, 2016 (Journal Indexed in ESCI)
- VIII. **Shape preserving properties of generalized Szász operators of max-product kind**  
Güngör Ş. Y. , İSPİR N.  
General Mathematics, vol.24, pp.71-79, 2016 (Refereed Journals of Other Institutions)
- IX. **Approximation by blending type operators based on Szasz-Lupas basis functions**  
MANAV N., İSPİR N.  
General Mathematics, vol.24, pp.105-118, 2016 (Refereed Journals of Other Institutions)
- X. **The Exact Order of Approximation for Bivariate Complex Bernstein-Schurer Polynomials**  
İSPİR N., GÜNGÖR Ş. Y.  
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.9, no.3, pp.322-332, 2016 (Journal Indexed in ESCI)
- XI. **On a General Class of  $q$  Rational Type Operators**  
İSPİR N.  
Mathematica Moravica, vol.19, no.2, pp.19-33, 2015 (Refereed Journals of Other Institutions)
- XII. **Approximation by modified complex Szasz Mirakjan operators**  
İSPİR N.  
AZERBAIJAN JOURNAL OF MATHEMATICS, vol.3, no.2, pp.95-107, 2013 (Refereed Journals of Other Institutions)
- XIII. **A Statistical Approximation by the Generalized Kantorovich Bernstein Type Rational Operators**  
İSPİR N., Vijay G.  
Southeast Asian Bulletin of Mathematics, vol.32, no.1, pp.87-97, 2008 (Refereed Journals of Other Institutions)
- XIV. **On the Kantorovich Variant of Generalized Bernstein Type Rational functions**  
Gupta V., İSPİR N.  
DEMONSTRATIO MATHEMATICA, vol.39, no.1, pp.117-130, 2006 (Refereed Journals of Other Institutions)
- XV. **On the Bezier variant of Srivastava Gupta operators**  
İSPİR N., YÜKSEL İ.  
Applied Mathematics E-Notes, vol.5, pp.129-137, 2005 (Refereed Journals of Other Institutions)
- XVI. **Rate of convergence by certain Bezier type operators for bounded variation functions**

- İSPİR N., YÜKSEL İ.  
Int. J. Math. Sci., vol.4, no.2, pp.329-339, 2005 (Refereed Journals of Other Institutions)
- XVII. Rate of Convergence by Certain Bezier type Operators for Bounded Variation**  
İSPİR N., YÜKSEL İ.  
Int. J. Math. Sci., vol.4, no.2, pp.329-339, 2005 (Refereed Journals of Other Institutions)
- XVIII. On simultaneous approximation for some modified Bernstein type operators**  
Vijay G., İSPİR N.  
International Journal of Mathematics and Mathematical Sciences, vol.71, pp.3951-3958, 2004 (Refereed Journals of Other Institutions)
- XIX. Weighted Approximation by modified Favard-Szasz operators**  
İSPİR N.  
Int. Math. J., vol.3, no.10, pp.1053-1060, 2003 (Refereed Journals of Other Institutions)
- XX. Approximation by generalized Balasz type rational functions**  
İSPİR N., ATAKUT Ç.  
International Journal of Computational and Numerical Analysis and Applications, vol.4, no.3, pp.297-316, 2003 (Refereed Journals of Other Institutions)
- XXI. Approximation by Balasz type rational functions in weighted spaces.**  
İSPİR N., ATAKUT Ç.  
Hadronic Journal, vol.24, no.3, pp.301-316, 2001 (Refereed Journals of Other Institutions)
- XXII. The order of approximation by certain linear positive operators.**  
ATAKUT Ç., İSPİR N.  
Mathematica Balkanica, vol.15, pp.25-34, 2001 (Refereed Journals of Other Institutions)
- XXIII. Approximation by modified Bernstein- Balasz type rational functions**  
İSPİR N.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.49, pp.87-93, 2000 (Refereed Journals of Other Institutions)
- XXIV. On a sequence of linear positive operators in weighted spaces**  
Gadjiev A., İSPİR N.  
Proc. Inst. Math. Mech.(Proceedings of the Institute of Mathematics and Mechanics ), vol.11, no.12, pp.46-56, 1999 (Refereed Journals of Other Institutions)
- XXV. Some subrings properties of the ring of holomorphic functions of a bicomplex variable.**  
İSPİR N.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.132, no.3, pp.641-653, 1999 (Refereed Journals of Other Institutions)
- XXVI. On rings of holomorphic functions of a bicomplex variables**  
İSPİR N.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.10, no.4, pp.601-609, 1997 (Refereed Journals of Other Institutions)
- XXVII. Holomorfik fonksiyonlar halkasının spektrumları üzerine**  
İSPİR N., ÖZKIN İ. K.  
Jour. Sci. Eng. Erciyes Univ, vol.16, no.1, pp.965-975, 1990 (Other Refereed National Journals)
- XXVIII. Some subring properties of the ring of holomorphic functions on a non-empty subset of an open Riemann surface.**  
İSPİR N., ÖZKIN İ. K.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.39, pp.1-4, 1990 (Refereed Journals of Other Institutions)
- XXIX. Some properties which a ring of holomorphic functions on non-empty subset of an open Riemann surface might have..**  
İSPİR N., ÖZKIN İ. K.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.38, pp.47-52, 1989 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Rate of Convergence by Phillips Operators Involving Appell Polynomials**  
Güngör Ş. Y. , İSPİR N.  
THIRD INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES (ICMS 2019), İstanbul, Turkey, 4 - 08 September 2019, pp.59
- II. **Genelleştirilmiş Szasz-Sheffer Operatörleri ile Integrellenebilir Fonksiyonlara Yaklaşım**  
Koç T., İSPİR N.  
14. Ankara Matematik Günleri (AMG 2019), Ankara, Turkey, 28 - 29 June 2019
- III. **İki Değişkenli Cholodowsky-Szasz-Sheffer Operatörleri ile Yaklaşım Derecesi**  
İSPİR N.  
13. Ankara Matematik Günleri ", Ankara, Turkey, 27 - 28 April 2018
- IV. **Approximation by Bivariate Lupa and Szasz-Brenke type Operators**  
İSPİR N.  
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Kyiv, Ukraine, 28 - 31 August 2018, vol.2037
- V. **Approximation by Generalized Bleimann-Butzer-Hahn Operators of Max-Product Kind**  
GÜNGÖR Ş. Y. , İSPİR N.  
The 11th Congress of International Society for Analysis, its Applications and Computations, Vaxjö, Sweden, 14 - 18 August 2017
- VI. **Shape Preserving Properties of Generalized Szász Operators of Max Product Kind**  
GÜNGÖR Ş. Y. , İSPİR N.  
The 12th International Conference on Approximation Theory and its Applications, Sibiu, Romania, 26 - 29 May 2016, vol.24, pp.71-79
- VII. **Shape Preserving Properties of Generalized Sz aszOperators of Max Product Kind**  
Güngör Ş. Y. , İSPİR N.  
The 12th International Conference on Approximation Theory and its Applications, Sibiu, Romania, 26 - 29 May 2016
- VIII. **APPROXIMATION BLENDING TYPE OPERATORS BASED ON LUPAS SZASZ FUNCTIONS**  
Manav N., İSPİR N.  
The 12th International Conference on Approximation Theory and its Applications, Sibiu, Romania, 26 - 29 May 2016
- IX. **Maksimum-Çarpım Tip Bernstein-Chlodowsky Operatörleri ile Yaklaşım**  
GÜNGÖR Ş. Y. , İSPİR N.  
10. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 11 - 12 June 2015
- X. **Maksimum-Carpm Tip Bernstein-ChlodowskyOperatörlerinin Yaklaşım Özellikleri**  
Güngör Ş. Y. , İSPİR N.  
10. Ankara Matematik Günleri Ulusal Sempozyumu, Ankara, Turkey, 11 - 12 June 2015
- XI. **Polya Dağılımlı Lupas-Kantorovich tip GBS operatörleri ile Yaklaşım**  
İSPİR N.  
10. Ankara Matematik Günleri Ulusal Sempozyumu, Ankara, Turkey, 11 - 12 June 2015
- XII. **Approximation by Modified Complex Szasz-Mirakjan Operators**  
İSPİR N.  
Actual Problems of Mathematics and Informatics, 29 - 31 May 2013
- XIII. **Approximation by complex genuine Szasz Durrmeyer operators in compact disks**  
çetin n., İSPİR N.  
International Conference on Actual Problems of Mathematics and Informatics, Dedicated to the 90th Anniversary of Haydar Aliyev, Baku, Azerbaijan, 29 - 31 May 2013
- XIV. **Rate of Convergence of Mastroianni Kantorovich-Type Operators for Absolutely Continuous Functions**  
İSPİR N.

XX. Ulusal Matematik Sempozyumu, Atatürk Üniversitesi, Erzurum, Erzurum, Turkey, 3 - 06 September 2007, pp.375-383

XV. **Szasz Tipi Operatörlerle Polinom Ağırlıklı uzaylarda Yaklaşım**  
İSPİR N.

XIV. Ulusal Matematik Sempozyumu, Eskişehir, Turkey, 14 - 17 September 2001, vol.3, pp.421-425

XVI. **m-kat diziler Uzayında Lineer pozitif operatör Dizilerinin yakınsaklık Koşulları**  
İSPİR N.

XI. Ulusal Matematik Sempozyumu, Isparta, Turkey, 7 - 11 September 1998

XVII. **Analitik Fonksiyonların Ar altuzaylarında Lineer k-pozitif Operatör Dizilerinin Yakınsaklığı**  
İSPİR N.

II.Kızılırmak Uluslararası Fen Bilimleri Kongresi, Kırıkkale, Turkey, 20 - 22 May 1998

XVIII. **Holomorfik Fonksiyonları Spektrumları ve Riemann Yüzeylerinin bir Karakterizasyonu**  
İSPİR N.

VI. Ulusal Matematik Sempozyumu, Magosa, Cyprus (Kktc), 8 - 12 September 1993

## Citations

Total Citations (WOS):174

h-index (WOS):9