

**Assoc. Prof. Seher Melike
Aydoğan**

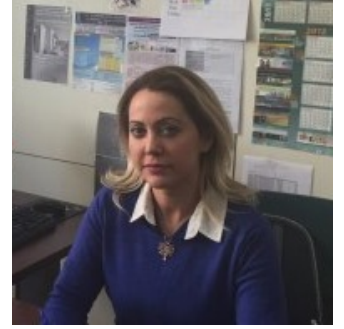


Personal Information

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Maslak İstanbul



Education Information

Doctorate, İstanbul Kültür Üniversitesi, Fen Edebiyat Fakültesi, Matematik, Turkey 2006 - 2009

Postgraduate, İstanbul Kültür Üniversitesi, Fen Edebiyat Fakültesi, Matematik Bilgisayar, Turkey 2004 - 2006

Undergraduate, İstanbul Üniversitesi, Fen Fakültesi, Matematik, Turkey 1997 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Kompleks Mertebeden Janowski Yıldızlı Log- Harmonik Fonksiyonların Uygulamaları, İstanbul Kültür University, Matematik, 2009

Research Areas

Mathematics, Differential Equations, Sequences, Series, Summability, Integral Transformations, Computational Calculation, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, 2017 - Continues

Associate Professor, Işık Üniversitesi, Fen Edebiyat, Matematik, 2016 - 2017

Associate Professor, State University Of New York College At Brockport, Science And Letters, Mathematics, 2015 - 2016

Assistant Professor, Işık Üniversitesi, Fen Edebiyat, Matematik, 2011 - 2015

Assistant Professor, Yeni Yüzyıl Üniversitesi, Mühendislik, Bilgisayar Mühendisliği, 2010 - 2011

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, 2020 - Continues

Head of Department, Istanbul Aydın University, Anadolu Bil Vocational School, 2008 - 2010

Advising Theses

Aydođan S. M. , Yavuz Duman E., Bazileviç Fonksiyonlar, Doctorate, T.Daymaz(Student), Continues
Aydođan S. M. , Yavuz Duman E., Univalent Functions, Doctorate, Z.Karahüseyin(Student), Continues
Aydođan S. M. , Multivalent Harmonic Mappings, Postgraduate, D.Varol(Student), 2015

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

- I. **Two hybrid and non-hybrid k-dimensional inclusion systems via sequential fractional derivatives**
Aydođan S. M. , Sakar F. M. , Fatehi M., Rezapour S., Masiha H. P.
ADVANCES IN DIFFERENCE EQUATIONS, vol.2021, no.1, 2021 (Journal Indexed in SCI)
- II. **Coefficient Estimates for Bi-Univalent Functions in Connection with Symmetric Conjugate Points Related to Horadam Polynomial**
Aydođan S. M. , Karahuseyin Z.
MATHEMATICS, vol.8, no.11, 2020 (Journal Indexed in SCI)
- III. **Some results on a system of multi-term fractional integro-differential equations**
Aydođan S. M. , Ravash E., Rezapour S., Sakar F. M.
Turkish Journal Of Mathematics, vol.45, no.22, pp.1-15, 2020 (Journal Indexed in SCI)
- IV. **On the mathematical model of Rabies by using the fractional Caputo-Fabrizio derivative**
Aydođan S. M. , Baleanu D., Mohammadi H., Rezapour S.
ADVANCES IN DIFFERENCE EQUATIONS, vol.2020, no.1, 2020 (Journal Indexed in SCI)
- V. **On modelling of epidemic childhood diseases with the Caputo-Fabrizio derivative by using the Laplace Adomian decomposition method**
Aydođan S. M. , Baleanu D., Mohammadi H., Rezapour S.
ALEXANDRIA ENGINEERING JOURNAL, vol.2, no.1, pp.1-22, 2020 (Journal Indexed in SCI Expanded)
- VI. **Approximate endpoint solutions for a class of fractional q-differential inclusions by computational results**
Aydođan S. M. , Gomez Aguilar J. F. , Baleanu D., Rezapour S., Samei M.
Fractals-Complex Geometry Patterns And Scaling In Nature And Society, vol.3, pp.1-22, 2020 (Journal Indexed in SCI Expanded)
- VII. **Coefficient estimates for the class of quasi q-convex functions**
Aydođan S. M. , Altıntaş O.
Turkish Journal Of Mathematics, vol.44, no.3, pp.1-7, 2020 (Journal Indexed in SCI)
- VIII. **Radius of starlikeness of p-valent lambda-fractional operator**
AYDOĐAN S. M. , SAKAR F. M.
APPLIED MATHEMATICS AND COMPUTATION, vol.357, pp.374-378, 2019 (Journal Indexed in SCI)
- IX. **Subclass of m-quasiconformal harmonic functions in association with Janowski starlike functions**
Sakar F. M. , Aydogan M.
APPLIED MATHEMATICS AND COMPUTATION, vol.319, pp.461-468, 2018 (Journal Indexed in SCI)
- X. **On the Shears of Univalent Harmonic Mappings**
AYDOĐAN S. M. , Bshouty D., Lyzzaik A., SAKAR F. M.
Complex Analysis And Operator Theory, 2018 (Journal Indexed in SCI)
- XI. **On high order fractional integro-differential equations including the Caputo-Fabrizio derivative**
AYDOĐAN S. M. , BALEANU D., mouselou a., Rezapour S.
Boundary Value Problems, pp.1-15, 2018 (Journal Indexed in SCI)
- XII. **Positive Solutions for a sum-type Singular Fractional Integro-Differential Equation with m-point Boundary Conditions**
AYDOĐAN S. M. , Nazemi S., Rezapour S.
University Politehnica of Bucharest Scientific Bulletin-series A-Applied Mathematics and Physics, pp.89-98, 2017 (Journal Indexed in SCI)

- XIII. **On approximate solutions for two higher-order Caputo-Fabrizio fractional integro-differential equations**
 AYDOĞAN S. M. , BALEANU D., mousalou s., Rezapour s.
 Advances in Difference Equations, vol.221, 2017 (Journal Indexed in SCI)
- XIV. **An Investigation of the Certain Class of Multivalent Harmonic Mappings**
 Özkan Uçar H. E. , POLATOĞLU Y., AYDOĞAN S. M.
 Journal of Computational Analysis and Applications, no.1, pp.480-487, 2016 (Journal Indexed in SCI)
- XV. **Harmonic mappings related to the m-fold starlike functions**
 Aydogan M., Polatoglu Y., Kahramaner Y.
 APPLIED MATHEMATICS AND COMPUTATION, vol.267, pp.805-809, 2015 (Journal Indexed in SCI)
- XVI. **On the class of harmonic mappings which is related to the class of bounded boundary rotation**
 Polatoglu Y., Aydogan M., Kahramaner Y.
 APPLIED MATHEMATICS AND COMPUTATION, vol.267, pp.790-794, 2015 (Journal Indexed in SCI)
- XVII. **Notes on Harmonic Functions for which the second Dilatation is alpha - spiral**
 Aydogan M.
 JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.18, no.6, pp.1111-1121, 2015 (Journal Indexed in SCI)
- XVIII. **Harmonic mappings for which co-analytic part is a close-to-convex function of order b**
 Polatoglu Y., Kahramaner Y., Aydogan M.
 JOURNAL OF INEQUALITIES AND APPLICATIONS, 2015 (Journal Indexed in SCI)
- XIX. **A certain class of starlike log-harmonic mappings**
 Aydogan M., Polatoglu Y.
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.270, pp.506-509, 2014 (Journal Indexed in SCI)
- XX. **Harmonic mappings related to Janowski starlike functions**
 Kahramaner Y., Polatoglu Y., Aydogan M.
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.270, pp.564-570, 2014 (Journal Indexed in SCI)
- XXI. **QUASICONFORMAL HARMONIC MAPPINGS RELATED TO STARLIKE FUNCTIONS**
 Polatoglu Y., Duman E. Y. , Kahramaner Y., Aydogan M.
 JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.16, no.5, pp.955-963, 2014 (Journal Indexed in SCI)
- XXII. **A Certain Class of Harmonic Mappings Related to Functions of Bounded Boundary Rotation**
 Polatoglu Y., Duman E. Y. , Aydogan M.
 JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.16, no.4, pp.678-686, 2014 (Journal Indexed in SCI)
- XXIII. **SOME INEQUALITIES WHICH HOLD FOR STARLIKE LOG-HARMONIC MAPPINGS OF ORDER alpha**
 Ozkan H. E. , Aydogan M.
 JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.16, no.3, pp.478-485, 2014 (Journal Indexed in SCI)
- XXIV. **Some results on a starlike log-harmonic mapping of order alpha**
 Aydogan M.
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.256, pp.77-82, 2014 (Journal Indexed in SCI)
- XXV. **Some Properties Concerned with Close-to-Convexity of Certain Analytic Functions**
 Nunokawa M., Aydoğan S. M. , Kuroki K., Yıldız i., Owa S.
 JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.245, pp.11-21, 2012 (Journal Indexed in SCI Expanded)
- XXVI. **Some properties of starlike harmonic mappings**
 Aydogan M., Yemisci A., Polatoglu Y.
 JOURNAL OF INEQUALITIES AND APPLICATIONS, 2012 (Journal Indexed in SCI)
- XXVII. **Integral means and arclength inequalities for typically real log-harmonic mappings**
 Abdulhadi Z., Aydoğan S. M.
 APPLIED MATHEMATICS LETTERS, vol.25, pp.27-32, 2012 (Journal Indexed in SCI)
- XXVIII. **Harmonic function for which the second dilatation is alpha-spiral**

Aydoğan M., Duman E. Y., Polatoglu Y., Kahramaner Y.

JOURNAL OF INEQUALITIES AND APPLICATIONS, 2012 (Journal Indexed in SCI)

XXIX. Extensions of sufficient conditions for starlikeness and convexity of order alpha

Uyanik N., Aydoğan M., OWA S.

APPLIED MATHEMATICS LETTERS, vol.24, no.8, pp.1393-1399, 2011 (Journal Indexed in SCI)

XXX. Some Properties for Analytic Functions Concerning with Miller and Mocanu Result

Nunokova M., Y. Duman E., Owa S., Aydoğan S. M.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.61, pp.1291-1295, 2011 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **Investigation of a Class of the Singular Fractional Integro-differential Quantum Equations with Multi-Step Methods**
Samei M. E., H. Zanganeh H., Aydoğan S. M.
J. Math. Ext, no.15, pp.1-54, 2021 (Journal Indexed in ESCI)
- II. **The extension Chebyshev polynomial bounds for general subclasses of bi-univalent functions involving subordination**
Altınkaya Ş., Sakar F. M., Aydoğan S. M.
Tbilisi Mathematical Journal, vol.1, pp.187-194, 2021 (Journal Indexed in ESCI)
- III. **On a K-Dimensional System of Hybrid Fractional Differential Equations with Multi-Point Boundary Conditions**
Aydoğan S. M.
JOURNAL OF MATHEMATICAL EXTENSION, vol.15, 2021 (Journal Indexed in ESCI)
- IV. **On a Nonlinear Fractional-Order Model of COVID-19 Under AB-Fractional Derivative**
Aydoğan S. M., Hussain A., Sakar F. M.
JOURNAL OF MATHEMATICAL EXTENSION, vol.15, 2021 (Journal Indexed in ESCI)
- V. **Pascal distribution series for subclasses of analytic functions associated with conic domains**
Frasin B. A., Aydoğan S. M.
AFRIKA MATEMATIKA, 2020 (Journal Indexed in ESCI)
- VI. **Initial Bounds for Certain Subclasses of Generalized Salagean Type Bi-univalent Functions Associated with the Horadam Polynomials**
SAKAR F. M., AYDOĞAN S. M.
Journal of Quality Measurement and Analysis, 2019 (Refereed Journals of Other Institutions)
- VII. **Notes on some p-valent functions**
Aydoğan S. M., Karahüseyin Z., Owa S.
Communication in Mathematical Modeling and Applications, vol.4, no.2, pp.65-70, 2019 (Refereed Journals of Other Institutions)
- VIII. **On Convex Functions with Complex Order Through Bounded Boundary Rotation**
Aydoğan S. M., Sakar F. M.
Mathematics in Computer Science, vol.13, no.3, pp.433-439, 2019 (Refereed Journals of Other Institutions)
- IX. **Bounds on Initial Coefficients for a Certain New Subclass of Bi-univalent Functions by Means of Faber Polynomial Expansions**
SAKAR F. M., AYDOĞAN S. M.
Mathematics in Computer Science, vol.13, no.3, pp.441-447, 2019 (Refereed Journals of Other Institutions)
- X. **Coefficient Bounds for Certain Subclasses of m-fold Symmetric Bi-univalent Functions Defined by Convolution**
SAKAR F. M., AYDOĞAN S. M.
Acta Universitatis Apulensis, vol.55, pp.11-21, 2018 (Refereed Journals of Other Institutions)
- XI. **Some Results on an Equivalence Relation on the Set of Closed and Bounded Valued Multifunctions**

AYDOĞAN S. M. , SHAHRAM R., SAKAR F. M.

Acta Universitatis Apulensis, pp.39-43, 2018 (Refereed Journals of Other Institutions)

XII. SOME PROPERTIES OF q -CONVEX FUNCTIONS OF COMPLEX ORDER

POLATOĞLU Y., AYDOĞAN S. M. , MERT O.

SARAJEVO JOURNAL OF MATHEMATICS, no.2, 2017 (Refereed Journals of Other Institutions)

XIII. New Subclass of p - valent Harmonic Meromorphic Functions

Joshi S., Aydoğan S. M.

Theory and Applications of Mathematics & Computer Science, vol.6, no.1, pp.51-59, 2016 (Refereed Journals of Other Institutions)

XIV. Quasi-conformal Harmonic Mappings Related To The Janowski Starlike Functions

Aydoğan S. M. , Polatoglu Y., Ozkan Ucar H. E. , Yemsici A., Kahramaner Y.

New Developments in Pure and Applied Mathematics, vol.1, pp.135-139, 2015 (Refereed Journals of Other Institutions)

XV. On a Subclass of p -valent Starlike Functions Associated with a Generalized Hypergeometric Differential operator

Yagubi E., Darus M., Aydoğan S. M.

New Developments in Pure and Applied Mathematics, vol.159, pp.159-162, 2015 (Refereed Journals of Other Institutions)

XVI. Multivalent Harmonic Functions For Which Analytic Part is Multivalent Convex Functions

Polatoglu Y., Kahramaner Y., Ozkan Ucar H. E. , Aydoğan S. M.

Recent Advances in Computational Mathematics, vol.2, pp.62-66, 2015 (Refereed Journals of Other Institutions)

XVII. Some New Distortion Theorems for Starlike Harmonic Functions of Order α

Ozkan Ucar H. E. , Aydoğan S. M. , Polatoglu Y.

Acta Universitatis Apulensis, vol.42, pp.171-180, 2015 (Refereed Journals of Other Institutions)

XVIII. Notes on Generalization of Close-to-Star Functions

Aydoğan S. M. , Yemsici A., Polatoglu Y.

Recent Advances in Computational Mathematics, vol.5, pp.18-22, 2015 (Refereed Journals of Other Institutions)

XIX. Some Results on Harmonic Mappings Related to Janowski α Spirallike Functions

Aydoğan S. M.

Mathematical Methods in Engineering and Economics, vol.6, pp.39-44, 2014 (Refereed Journals of Other Institutions)

XX. Notes on Bounded Harmonic Mappings Related to Starlike Functions

Varol Ozturk D., Aydoğan S. M. , Polatoglu Y.

Computers, Automatic Control, Signal Processing and Systems Science, vol.5, pp.17-22, 2014 (Refereed Journals of Other Institutions)

XXI. Harmonic Mappings Related to the Bounded Boundary Rotation

Aydoğan S. M. , Ozkan Ucar H. E. , Polatoglu Y.

Mathematical Methods in Science and Engineering, vol.37, pp.34-36, 2014 (Refereed Journals of Other Institutions)

XXII. Some Results on Janowski Convex and Janowski Close-to-Convex Functions

Aydoğan S. M.

Advances in Applied and Pure Mathematics, vol.2, pp.133-136, 2014 (Refereed Journals of Other Institutions)

XXIII. Multivalent Harmonic Mappings

Aydoğan S. M. , Varol Ozturk D.

Mathematics and Computers in Science and Industry, vol.2, pp.114-117, 2014 (Refereed Journals of Other Institutions)

XXIV. Harmonic Mappings Related to Starlike Function of Complex Order α

Aydoğan S. M.

TWMS. J. App. Eng. Math, vol.4, no.1, pp.7-15, 2014 (Refereed Journals of Other Institutions)

XXV. Some Properties of Certain Non-analytic Functions

Owa S., Aydoğan S. M. , Varol Ozturk D.

Advances in Mathematics Sci Journal, vol.3, pp.109-115, 2014 (Refereed Journals of Other Institutions)

- XXVI. **Some results on a Subclass of Harmonic Mappings of order α**
 Varol Ozturk D., Aydoğan S. M. , Owa S.
 TWMS. J. App. Eng. Math, vol.4, no.1, pp.104-109, 2014 (International Refereed University Journal)
- XXVII. **Close-to-Convex Functions Defined by Fractional Operator**
 Aydoğan S. M. , Kahramaner Y., Polatoglu Y.
 Applied Mathematical Sciences, vol.7, no.56, pp.2769-2775, 2013 (Refereed Journals of Other Institutions)
- XXVIII. **Harmonic Mappings Related to Janowski Convex Functions of Complex order b**
 Aydoğan S. M. , Polatoglu Y., Kahramaner Y.
 International Journal of Mathematical Analysis, vol.7, no.30, pp.1451-1459, 2013 (Refereed Journals of Other Institutions)
- XXIX. **Harmonic Functions for which second dilatation has positive real part**
 Ozkan Ucar H. E. , Yemsici A., Aydoğan S. M. , Polatoglu Y.
 Advances in Mathematics, Sci. Journal, vol.4, pp.59-63, 2012 (Refereed Journals of Other Institutions)
- XXX. **Some Results on a Subclass of α -quasi Spirallike Mappings**
 Aydoğan S. M.
 Mathematica Aeterna, vol.4, pp.669-674, 2012 (Refereed Journals of Other Institutions)
- XXXI. **Generalization of close-to-star functions**
 Aydoğan S. M. , Yemsici A., Polatoglu Y.
 General Mathematics, vol.2, pp.1-7, 2012 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **New Directions in Function Theory: From Complex to Hypercomplex to Non-Commutative**
 Aydoğan S. M. , Bshouty D., Miller S., Sakar F. M.
 Springer, London/Berlin , Massachusetts, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Neighborhoods of a class of quasi-convex functions of complex order**
 ALTINTAŞ O., AYDOĞAN S. M.
 II International Ankara Conference of Scientific Research, Ankara, Turkey, 6 - 08 March 2020
- II. **On the Coefficients of the Class of Quasi-Convex Multivalent Functions**
 Aydoğan S. M. , Altıntaş O.
 7th International Symposium on Academic Studies in Science, Engineering and Architecture Sciences , ISMS 2019, Ankara, Turkey, 15 - 17 November 2019, pp.149
- III. **On the Coefficients of quasi-convex Functions**
 ALTINTAŞ O., AYDOĞAN S. M.
 15th International Symposium on Geometric Function Theory and Applications (GFTA 2019), Malang, Indonesia, 4 - 06 November 2019
- IV. **Coefficient Bounds for a Subclass of m -fold Symmetric Bi-univalent Functions Involving Hadamard Product and Differential Operator**
 Aydoğan S. M. , Sakar F. M. , Altinkaya Ş.
 Conference Proceeding of 2nd International Conference on Mathematical Advances and Applications (ICOMAA-2019), İstanbul, Turkey, 3 - 05 May 2019, pp.87
- V. **Some Results on a System of Multi-Term Fractional Integro-Differential Equations**
 Aydoğan S. M. , E R., Shahram R., Sakar F. M.
 14 th. International Symposium on Geometric Function Theory and Applications, Selayang-Baru, Malaysia, 3 - 05 December 2018, pp.40-41
- VI. **On Two Fractional q -Derivative Inclusions**

Aydođan S. M.

38th Southeastern-Atlantic Regional Conference on Differential Equations (SEARCDE), Georgia, United States Of America, 6 - 10 October 2018, pp.1

Supported Projects

Aydođan S. M. , BALEANU D., SAKAR F. M. , REZAPOUR S., Bekçi Z., Project Supported by Higher Education Institutions, Tekil Fraksiyonel Diferansiyel Denklemlerin Kararlılıđı, 2018 - 2021

Aydođan S. M. , Project Supported by Other Private Institutions, Univalent Functions and Generalized Hypergeometric Functions in Nano and Micro Structures, 2015 - 2016

Activities in Scientific Journals

TÜRK MATEMATİK DERGİSİ, Editor, 2018 - Continues

Edit Congress and Symposium Activities

International Workshop on Applied Analysis and Optimization, Invited Speaker, Taichung, Taiwan, 2019

14th International Symposium on Geometric Function Theory and Applications, Attendee, Kuala-Lumpur, Malaysia, 2018

38th Southeastern-Atlantic Regional Conference on Differential Equations (SEARCDE 2018), Attendee, Georgia, United States Of America, 2018

ESCO 2018 6 th European Seminar on Computing, Attendee, Plzen, Czech Republic, 2018

XIX Conference on Analytic Functions and Related Topics, AF & RT '18, Attendee, Rzeszow, Poland, 2018

International Workshop on Applied Analysis and Optimization, Invited Speaker, Taichung, Taiwan, 2018

Ejons International Congress on Mathematics, Engineering and Natural Sciences III, Attendee, Mardin, Turkey, 2018

Ejons International Congress on Mathematics, Engineering and Natural Sciences III, Attendee, Mardin, Turkey, 2018

Geometric Function Theory and Applications 17, Invited Speaker, Arad, Romania, 2017

Citations

Total Citations (WOS):242

h-index (WOS):6