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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 2003 - 2008

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 2001 - 2003

Undergraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 1996 - 2000

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Mathematics, Differential Geometry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2020 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2018 - 2020

Assistant Professor, Yildiz Technical University, Fen Edebiyat Fakültesi, Matematik, 2010 - 2018

Research Assistant, Yildiz Technical University, Fen Edebiyat Fakültesi, Matematik, 2001 - 2010

Courses

Doctorate, 2019 - 2020

İleri Diferensiyel Geometri, Doctorate, 2014 - 2015

Yüzeyle Teorisi, Undergraduate, 2014 - 2015

Advising Theses

Alagöz Y., KUATERNİYONLAR, Doctorate, M.Arıkan(Student), Continues

Alagöz Y., GENELLEŞTİRİLMİŞ KUATERNİYONLAR, Doctorate, G.Özyurt(Student), 2024

ALAGÖZ Y., Kompleks Katsayılı Split ve Yarı Kuarterniyonların Matris Temsilleri, Postgraduate, G.Özyurt(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hyper-Number Generalized Quaternions**
ALAGÖZ Y., Özyurt G.
Computational Mathematics and Mathematical Physics, vol.64, no.5, pp.908-917, 2024 (SCI-Expanded)
- II. **Similarity and consimilarity of hyper-dual generalized quaternions**
ALAGÖZ Y., Özyurt G.
Mathematical Methods in the Applied Sciences, 2024 (SCI-Expanded)
- III. **Linear Equations Systems of Real and Complex Semi-Quaternions**
ALAGÖZ Y., Özyurt G.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.44, no.5, pp.1483-1493, 2020 (SCI-Expanded)
- IV. **Dual quaternion algebra and its derivations**
Kızıl E., Alagöz Y.
TURKISH JOURNAL OF MATHEMATICS, vol.44, pp.2113-2122, 2020 (SCI-Expanded)
- V. **Real and Hyperbolic Matrices of Split Semi Quaternions**
ALAGÖZ Y., Özyurt G.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.29, no.3, 2019 (SCI-Expanded)
- VI. **Derivations of generalized quaternion algebra**
Kızıl E., Alagöz Y.
TURKISH JOURNAL OF MATHEMATICS, vol.43, pp.2649-2657, 2019 (SCI-Expanded)
- VII. **SOME PROPERTIES OF COMPLEX QUATERNION AND COMPLEX SPLIT QUATERNION MATRICES**
ALAGÖZ Y., Özyurt G.
MISKOLC MATHEMATICAL NOTES, vol.20, no.1, pp.45-58, 2019 (SCI-Expanded)
- VIII. **On Hyperbolic Split Quaternions and Hyperbolic Split Quaternion Matrices**
Özyurt G., ALAGÖZ Y.
ADVANCES IN APPLIED CLIFFORD ALGEBRAS, vol.28, no.5, 2018 (SCI-Expanded)
- IX. **A characterization of the projective transformation in Minkowski 3-space**
ALAGÖZ Y.
TURKISH JOURNAL OF MATHEMATICS, vol.38, no.5, pp.896-904, 2014 (SCI-Expanded)
- X. **SPLIT QUATERNION MATRICES**
ALAGÖZ Y., Oral K. H., Yüce S.
MISKOLC MATHEMATICAL NOTES, vol.13, no.2, pp.223-232, 2012 (SCI-Expanded)
- XI. **A characterization of the projective transformation**
ALAGÖZ Y., Soyuçok Z.
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, vol.5, no.1, pp.1-5, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **On the transformations preserving asymptotic directions of hypersurfaces in the Euclidean space**
ALAGÖZ Y., Soyuçok Z.
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.2, pp.564-573, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Coneigenvalues and coneigenvectors of quaternion and split quaternion matrices**
Alagöz Y., Özyurt G.
7th International Conference of Mathematical Sciences (ICMS 2023), İstanbul, Turkey, 5 - 09 July 2023, pp.82
- II. **A Study on Real Split Semi Quaternion Matrices**
Alagöz Y., Özyurt G.
3. International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 3 -

05 July 2019, pp.45

III. Properties of Hyperbolic Split Semi Quaternions and Their Matrices

Alagöz Y., Özyurt G.

3. International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 3 - 05 July 2019, pp.153

IV. Some Properties of 2x2 Complex Semi Quaternion Matrices

Alagöz Y., Özyurt G.

International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.467

V. Some Properties of Hyperbolic Split Quaternion Matrices

Alagöz Y., Özyurt G.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 13 May 2018, pp.65

VI. On Complex Quaternion and Complex Split Quaternion Matrices

Alagöz Y., Özyurt G.

International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.198

VII. A New Property of the Projective Transformations

Alagöz Y., Soyuçok Z.

UKRAINIAN MATHEMATICAL CONGRESS, Kyiv, Ukraine, 27 - 29 August 2009, pp.1

VIII. On the transformations preserving asymptotic lines of hypersurfaces in the euclidean space

Alagöz Y., Soyuçok Z.

IV CONGRESS OF THE MATHEMATICIANS OF REPUBLIC OF MACEDONIA, Struga, Macedonia, 19 - 22 October 2008, pp.18

Supported Projects

ALAGÖZ Y., KIZILBUDAK ÇALIŞKAN S., Özyurt G., Project Supported by Higher Education Institutions, Hiper Dual Tam Dejenere Kuaterniyonlar ve Hiper Dual Kuaterniyonik ve Hiper Dual Tam Dejenere Kuaterniyonik Denklemlerinin Çözümü, 2023 - 2023

ALAGÖZ Y., Özyurt G., Project Supported by Higher Education Institutions, Dual Split Yarı Kuaterniyonların Matris Temsilleri, 2020 - 2021

Metrics

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