## HASAN KELEŞ LECT. PHD

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## Biography

He was born in 1966 in Gümüşhane's KELKİT district.

### Certificates, Courses and Trainings

Other, Yeni Anaysa Perspektifinde Sendikal Haklar Projesi, ÇSGB, 2016 Education Management and Planning, X th INTERNATIONAL STATISTICS DAYS CONFERENCE, GİRESUN UNIVERSITY, 2016

### Articles Published in Other Journals

### 1. Multiplication of Matrices

KELEŞ H.

Indonesian Journal of Mathematics and Application, vol.2, no.1, pp.1-8, 2024 (Peer-Reviewed Journal)

### 2. ON THE DIGITS OF NUMBERS IN THE SYSTEM LOGIC B3

KELEŞ H.

Journal of Applied and Pure Mathematics, vol.6, pp.97-103, 2024 (Peer-Reviewed Journal)

### 3. Similarity and equivalence in poloid

KELEŞ H.

The Aligarh Bulletin of Mathematics, vol.42, no.2, pp.59-67, 2024 (Peer-Reviewed Journal)

## 4. POLOID AND MONOID

Keleş H.

The Aligarh Bulletin of Mathematics, vol.41, no.1, pp.15-21, 2023 (Peer-Reviewed Journal)

## 5. SPIN HALF-ADDER IN B3

Keleş H.

Journal of Applied and Pure Mathematics, vol.5, no.3, pp.187-196, 2023 (Peer-Reviewed Journal)

## 6. ON GENERALIZED LATTICE B2

Keleş H.

Journal of Applied and Pure Mathematics, vol.5, no.1, pp.1-8, 2023 (Peer-Reviewed Journal)

7. On Some Reflections of Profit and Loss Functions Keles H.

Al-Salam Journal for Engineering and Technology, vol.2, no.2, pp.30-36, 2023 (Peer-Reviewed Journal)

## 8. On the Involutive Matrices of the k th Degree

## Keleş H.

Iraqi Journal for Computer Science and Mathematics, vol.4, no.1, pp.10-14, 2022 (Scopus)

#### 9. POLOIDS AND MATRICES

Keleş H.

The Aligarh Bulletin of Mathematics, vol.41, no.1, pp.41-52, 2022 (Peer-Reviewed Journal)

## 10. On Results Between Matrix Division and Some other Matrix Operations

KELEŞ H.

Al-Salam Journal for Engineering and Technology, vol.1, no.2, pp.5-8, 2022 (Peer-Reviewed Journal)

### 11. ON TYPES OF AVERAGE ACCORDING TO THE CHANGING AVERAGE

KELEŞ H.

Journal of Scientific and Engineering Research, vol.5, no.12, pp.184-186, 2018 (Peer-Reviewed Journal) 12. ON TEST STATISTICS ACCORDING TO THE CHANGING AVERAGE

KELEŞ H.

Journal of Scientific and Engineering Research, vol.5, no.12, pp.53-55, 2018 (Peer-Reviewed Journal)

## 13. On Reflection of Conic Sections According to Basic Functions

KELEŞ H.

Journal of Scientific and Engineering Research, vol.5, no.9, pp.133-136, 2018 (Peer-Reviewed Journal)

## 14. On the Symmetric Conditions of Simple Functions

### KELEŞ H.

Journal of Scientific and Engineering Research, vol.5, no.8, pp.69-74, 2018 (Peer-Reviewed Journal)

## 15. On Matrix Division And Rational Matrices

KELEŞ H.

Journal of Scientific and Engineering Research, vol.5, no.8, pp.279-286, 2018 (Peer-Reviewed Journal)

16. On a generalized theorem of de Bruijn and Erdös in d-dimensional Fuzzy Linear Spaces KELEŞ H.

Journal of Scientific and Engineering Research, vol.5, no.1, pp.102-105, 2018 (Peer-Reviewed Journal)

## 17. On General Construction of d-dimensional Linear Spaces

#### KELEŞ H.

Journal of Scientific and Engineering Research, vol.4, no.8, pp.365-368, 2017 (Peer-Reviewed Journal)

## 18. Interpretation of Conic Sections with Side Conditional Extremes

### KELEŞ H.

Journal of Scientific and Engineering Research, vol.4, no.6, pp.84-88, 2017 (Peer-Reviewed Journal)

## 19. Different Approaches on the Matrix Division and Generalization of Cramer's Rule KELEŞ H.

Journal of Scientific and Engineering Research, vol.4, no.3, pp.105-108, 2017 (Peer-Reviewed Journal)

## 20. On some properties combinatorics of Graphs in the d-dimensional FLS KELEŞ H.

Journal of Scientific and Engineering Research, vol.4, no.2, pp.93-97, 2017 (Peer-Reviewed Journal)

## 21. ON MEASUREMENT ASSESSMENT AND DIVISION MATRICES

KELEŞ H.

Journal of Scientific and Engineering Research, vol.3, no.6, pp.233-237, 2016 (Peer-Reviewed Journal)

## 22. On The Linear Transformation of Division Matrices

## KELEŞ H.

Journal of Scientific and Engineering Research, vol.3, no.5, pp.101-104, 2016 (Peer-Reviewed Journal)

## 23. SİYANUR BOZUNMA HIZININ FUZZY LİNEER UZAYLARINDAKİ FLU BİR BOZUNMASI KELEŞ H., YAZICI E. Y., DEVECİ H., ALP İ., KESİMAL A.

DOĞU KARADENİZ BÖLGESİ MADEN KAYNAKLARININ DEĞERLENDİRİLMESİ, no.115, pp.341-343, 2006 (Peer-**Reviewed** Journal)

## **Books & Book Chapters**

1. On Some Properties of Poloids and Mappings

Keleş H.

in: Current Debates on Natural and Engineering Sciences 9, ÇOĞUN Hikmet Y.,PARLAR İshak,ÜZMUŞ Hasan, Editor, Bilgin Kültür Sanat Yayınları Certificate No: 20193, Ankara, pp.616-624, 2023

### 2. New Approaches To Some Matrix Equation Solutions

Keleş H.

in: Current Debates on Natural and Engineering Sciences 9, ÇOĞUN Hikmet Y., PARLAR İshak, ÜZMUŞ Hasan, Editor, Bilgin Kültür Sanat Yayınları Certificate No: 20193, Ankara, pp.347-356, 2023

## 3. Comparison of Equivalent, Similar Matrices and Regular Matrices

KELEŞ H.

in: Current Debates on Natural and Engineering Sciences 5, ÇOĞUN Hikmet Y., PARLAR İshak,, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.728-745, 2022

### 4. Potent Matrices

KELEŞ H.

in: Current Debates on Natural and Engineering Sciences 5, ÇOĞUN Hikmet Y., PARLAR İshak, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.28-35, 2022

### 5. Çözümlü Genel Matematik, Matematik - I-

KELEŞ H.

Akademi, Trabzon, Umuttepe Yayınları, Kocaeli, Trabzon, 2018

#### 6. ΜΑΤΕΜΑΤΙΚ-Ι-ΜΑΤΕΜΑΤΙΚ-Ι

KELEŞ H. BİLAL OFSET, Denizli, 2018

- ÇÖZÜMLÜ GENEL MATEMATİK-II-KELEŞ H. Akademi Kitabevi Yayınları, Trabzon, 2016
- Çözümlü Genel Matematik II KELEŞ H. Yazara Ait, Trabzon, 2016
- 9. LİNEER CEBİRE GİRİŞ-I-
- KELEŞ H. Bordo Trabzon, Denizli, 2015
- 10. **GENEL VE ÇÖZÜMLÜ MATEMATİK-I**-KELEŞ H. Seçkin Kitapçılar, Trabzon, 2015

## Genel ve Çözümlü Matematik I KELEŞ H. Seçkin Kitapçılar, Akademi, Bordo, Altaş, Trabzon, 2015

12. Lineer Cebire Giriş I KELEŞ H. Bordro (Dağıtım), Trabzon, 2015

Refereed Congress / Symposium Publications in Proceedings

- ON THE BASICS OF LOGICS B3 AND BOOLEAN KELEŞ H. AFRICA 4TH INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Casablanca, Morocco, 19 - 21 January 2024, pp.213-221
- ON NEW DEVELOPMENTS IN MULTIPLICATION MATRIX Keleş H. AFRICA 4TH INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Casablanca, Morocco, 19 - 21 January 2024, pp.207-212

## 3. ON THE CONCEPT OF CENTROID FOR ELEMENT **X** IN **ℝ**

KELES H.

AFRICA 4TH INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Casablanca, Morocco, 19 - 21 January 2024, pp.200-206

## 4. ON FRACTION MATRICES (A/B) AND EIGENVALUES-EIGENVECTORS

Keles H.

10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Kırklareli, Turkey, 6 - 08 January 2024, pp.58-62 5. IDEALS AND REGULAR MATRICES

Keles H.

10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Kırklareli, Turkey, 6 - 08 January 2024, pp.54-57

## 6. ON COMPLEMENT OF BASE IN B3

Keles H.

10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Kırklareli, Turkey, 6 - 08 January 2024, pp.47-53

## 7. ON THE OPERATION OF DIVISION AND LINEAR MAPPING

Keles H. 7th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Budapest, Hungary, 10 March 2023, pp.155-159

## 8. ON ROW CO-DIVISORS IN REGULAR MATRICES

Keles H.

7th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Budapest, Hungary, 10 March 2023, pp.150-154 9. ON EIGENVALUES AND EIGENVECTORS IN  $Mn(\mathbb{R})$ 

Keles H.

ICHEAS 3RD INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Cape-Town, South Africa, 25 - 29 January 2023, pp.98-103

## 10. ON THE ESCORT ELEMENT PROPERTY OF (P4) POLOID AND MATRICES

Keleş H.

ICHEAS 3RD INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Cape-Town, South Africa, 25 - 29 January 2023, pp.93-97

## 11. ON MAIN PROPERTIES OF THE POLOID AND THE GROUP

Keles H.

AICNHS 1st INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Cairo, Egypt, 12 January 2023, pp.61-65

## 12. ON SUBPOLOID

Keleş H.

AICNHS 1st INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Cairo, Egypt, 12 January 2023, pp.67-75

#### 13. ON SOME CONCLUSIONS OPERATIONAL PROPERTIES OF RATIONAL MATRIXES KELEŞ H.

4. INTERNATIONAL PALANDOKEN SCIENTIFIC STUDIES CONGRESS, Erzurum, Turkey, 28 - 30 April 2022

## 14. ON SOME RESULTS ROW CO-DIVISION IN REGULAR SQUARE MATRICES

KELES H.

4. INTERNATIONAL PALANDOKEN SCIENTIFIC STUDIES CONGRESS, Erzurum, Turkey, 28 - 30 April 2022, pp.243-249

## 15. On Some Conclusions the Relationship between Demand and Supply

KELEŞ H.

2.International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 7 - 09 May 2022, pp.581-588

#### 16. On Some Conclusions the Relationship between Profit and Loss Functions KELEŞ H.

2.International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 7 - 09 May 2022, pp.574-580

## 17. On Row Co-divisors and Column Co-divisors in Regular Square Matrices

KELEŞ H.

2.International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 7 - 09 May 2022, pp.568-573

# 18. ON RESULTS DIVISIBILITY AND MULTIPLIERS OF REGULAR MATRICES OF ORDER nth KELEŞ H.

8TH INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 12 - 15 March 2022, pp.712-718

## 19. ON THE RELATIONSHIP BETWEEN TRANSPOSE AND DIVISION

KELEŞ H.

8TH INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS , İstanbul, Turkey, 12 - 15 March 2022, pp.719-722

- 20. On Reflections of Profit and Loss Functions
  - KELEŞ H.

INTERNATIONAL CURRENT RESEARCH SYMPOSIUM 2022 (ICRS'22), Yozgat, Turkey, 7 - 09 March 2022, pp.223-228

## 21. On Reflections of Demand and Supply Functions

KELEŞ H.

INTERNATIONAL CURRENT RESEARCH SYMPOSIUM 2022 (ICRS'22), Yozgat, Turkey, 7 - 09 March 2022, pp.217-222

22. ON CHANGING AVERAGES AND RESULTS IN SYSTEMS

KELEŞ H.

İKSAD – INSTITUTE OF ECONOMIC DEVELOPMENT AND SOCIAL RESEARCHES, Erzurum, Turkey, 7 - 09 December 2018, vol.1, pp.188

# 23. ON MAIN AXES OF CONIC SECTIONS REFLECTION ACCORDING TO SIMPLE FUNCTIONS KELES H.

İKSAD – INSTITUTE OF ECONOMIC DEVELOPMENT AND SOCIAL RESEARCHES, Erzurum, Turkey, 7 - 09 December 2018, vol.1, pp.1006-1011

## 24. ON THE GENERAL REFLECTION OF SIMPLE FUNCTIONS

KELEŞ H.

İKSAD – INSTITUTE OF ECONOMIC DEVELOPMENT AND SOCIAL RESEARCHES, Erzurum, Turkey, 7 - 09 December 2018, vol.1, pp.1016-1021

## 25. Matris Bölmesi Keşifinin Öğretim ve Eğitime Katkısı Üzerine

KELEŞ H.

VI. INTERNATIONAL CONGRESS ON RESEARCH IN EDUCATION, Rize, Turkey, 13 - 15 October 2016, vol.1, pp.150-160

## 26. Matrislerde Bölme İşlemi ve Graph Teory

KELEŞ H.

Xth International Statistics Days Conference 2016 (ISDC'2016), Giresun, Turkey, 7 October - 09 December 2016, pp.837-844

# 27. On Division Operation of Matrices and Some Special Matrices KELEŞ H.

Caucasian Mathematics Conference (CMC-II), 25 August 2016

#### 28. **Matris Bölmesi ve Bazı Uygulamaları** RECEP HAKAN D.

28. ULUSAL MATEMATİK SEMPOZYUMU, Antalya, Turkey, 7 - 09 September 2015, pp.170

## 29. The Rational Matrices

KELEŞ H.

Mathematical Modelsi in Engineering, Ankara, Turkey, 28 - 31 July 2010, pp.3

## 30. On Some Properties Combinatorics of Graphs in the d-dimensional FLS KELES H., YAZICIOĞLU R. A., İNCESU M.

International Workshop II On Applications Of Wavelets To Real World Problems, İstanbul, Turkey, 07 June 2007

#### **Other Publications**

 A note on r -circulant matrices involving generalized Narayana numbers. , Keleş H. Technical Report, pp.1-2, 2024

#### **Visual Activities**

KELEŞ H., Radio Program, 2010 - 2010 KELEŞ H., Newspaper Publishing, 1989 - 1992

#### Courses

Matematik - II, Undergraduate, 2024 - 2025 SOSYAL BİLİMLER İÇİN MATEMATİK-II-, Undergraduate, 2024 - 2025 Matematik - I-, Undergraduate, 2016 - 2017 Genel Matematik, Undergraduate, 2016 - 2017 Genel Matematik, Undergraduate, 2016 - 2017 Genel Matematik, Undergraduate, 2016 - 2017 Genel Matematik, Undergraduate, 2016 - 2017 Genel Matematik, Undergraduate, 2015 - 2016 Sosyal Bilimler İçin Matematik - I, Undergraduate, 2015 - 2016 Genel Matematik, Undergraduate, 2015 - 2016 MATEMATİK-I-,-II-, Undergraduate, 2000 - 2001

#### Activities in Scientific Journals

Journal of Scientific and Engineering Research, Committee Member, 2017 - Continues

#### Scientific Refereeing

Two Intrinsic Formulae Generated by the Jones Polynomial, Other journals, April 2024 ASIAN JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, March 2024 JOURNAL OF MATHEMATICAL INEQUALITIES, Journal Indexed in SCI-E, March 2024 Iraqi Journal for Computer Science and Mathematics , Other journals, November 2023 Iraqi Journal for Computer Science and Mathematics , Other journals, December 2022 Project Supported by Higher Education Institutions, BAP Infrastructure, Ege University, Turkey, July 2021 New Trends in Mathematical Sciences, Other journals, August 2016

#### Scientific Research / Working Group Memberships

Group Of International World Logical Current Developments Monitoring And Management, Karadeniz Technical University, Turkey, GIWOCDEP, 2023 - Continues

#### **Congress and Symposium Activities**

AFRICA 4TH INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Moderator, Casablanca, Morocco, 2024 BALKAN 10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Attendee, Kırklareli, Turkey, 2024 Moderator, Kırklareli, Turkey, 2024 ICMSA2018, International Conference on Mathematical Studies and Applications 2018, Invited Speaker, Karaman, Turkey, 2018 ICMSA2018, International Conference on Mathematical Studies and Applications 2018, Invited Speaker, Karaman, Turkey, 2018 INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIDE MATHEMATICS (ICRAPAM2018), Invited Speaker, Trabzon, Turkey, 2018 Xth International Statistics Days Conference 2016, Invited Speaker, Giresun, Turkey, 2016 VI. INTERNATIONAL CONGRESS ON RESEACH IN EDUCATION, Invited Speaker, Rize, Turkey, 2016 MATRIS BÖLMESİ VE UYGULAMALARI, Attendee, Balıkesir, Turkey, 2015 MATRIS BÖLMESİ VE UYGULAMALARI, Invited Speaker, Balıkesir, Turkey, 2015

#### **Research Areas**

Social Sciences and Humanities, Mathematics, Multivariate Complex Functions and Analytic Spaces, Linear and Multilinear Algebra: Matrix Theory, Functional Analysis, General Mathematics, Geometry, Combinatorics, Mathematics Education, Natural Sciences, Engineering and Technology

Non Academic Experience

Sakarya Üniversitesi Milli Eğitim Bakanlığı