

## Prof. MEHMET BARAN

### Personal Information

**Office Phone:** [+90 352 207 6666](tel:+903522076666) Extension: 33206

**Email:** [baran@erciyes.edu.tr](mailto:baran@erciyes.edu.tr)

**Web:** <http://aves.erciyes.edu.tr/baran/>

**Address:** Erciyes Universitesi, fen fakültesi, matematik Bölümü

### Education Information

Doctorate, University of Miami, Arts And Sciences, Mathematics, United States Of America 1985 - 1990

Postgraduate, University of Miami, Arts And Sciences, Mathematics, United States Of America 1984 - 1985

Undergraduate, Inonu University, Fen Edebiyat, Matematik, Turkey 1978 - 1982

Undergraduate, Inonu University, Fen Edebiyat, Matematik, Turkey 1978 - 1982

### Foreign Languages

English, C1 Advanced

### Research Areas

Mathematics, Algebraic Topology, General Topology, Natural Sciences

### Academic Titles / Tasks

Professor, Erciyes University, Fen Fakültesi, Matematik, 1990 - Continues

### Courses

Topos Teorisi, Doctorate, 2014 - 2015

### Advising Theses

BARAN M., Predüzgün Yakınsak Uzaylar Kategorisinde Kapalılık ve  $T_0$  ,  $T_1$  Nesneler, Doctorate, S.Kula(Student), 2014

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

#### I. Sober spaces

BARAN M., Abughalwa H.

TURKISH JOURNAL OF MATHEMATICS, vol.46, no.1, pp.299-310, 2022 (Journal Indexed in SCI)

#### II. Closure operators in convergence approach spaces

QASIM M., BARAN M., ABUGHALWA H.

TURKISH JOURNAL OF MATHEMATICS, vol.45, no.1, pp.139-152, 2021 (Journal Indexed in SCI)

- III. **Closure Operators in Semiuniform Convergence Spaces**  
BARAN M., KULA S., BARAN T. M. , QASIM M.  
FILOMAT, vol.30, no.1, pp.131-140, 2016 (Journal Indexed in SCI)
- IV. **The effects of adriamycin on E-cadherin mediated cell-cell adhesion and apoptosis during early kidney development**  
Yay A. H. , Özdamar S., Balcioğlu E., Baran M., Akkus D., Sonmez M. F.  
BIOTECHNIC & HISTOCHEMISTRY, vol.90, no.5, pp.375-383, 2015 (Journal Indexed in SCI)
- V. **T-0 and T-1 semiuniform convergence spaces**  
BARAN M., Kula S., Erciyes A.  
FILOMAT, vol.27, no.4, pp.537-546, 2013 (Journal Indexed in SCI)
- VI. **Quotient-reflective and bireflective subcategories of the category of preordered sets**  
BARAN M., AL-SAFAR J.  
TOPOLOGY AND ITS APPLICATIONS, vol.158, no.15, pp.2076-2084, 2011 (Journal Indexed in SCI)
- VII. **CONNECTEDNESS AND SEPARATION IN THE CATEGORY OF CLOSURE SPACES**  
Baran M., Tokat D., KULA M.  
FILOMAT, vol.24, no.2, pp.67-79, 2010 (Journal Indexed in SCI)
- VIII. **PreT (2) Objects in Topological Categories**  
BARAN M.  
APPLIED CATEGORICAL STRUCTURES, vol.17, no.6, pp.591-602, 2009 (Journal Indexed in SCI)
- IX. **CONDITIONS IMPLYING CONTINUITY OF MAPS**  
Baran M., KULA M., Erciyes A.  
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.46, no.4, pp.813-826, 2009 (Journal Indexed in SCI)
- X. **A note on connectedness**  
Baran M., Kula M.  
PUBLICATIONES MATHEMATICAE-DEBRECEN, vol.68, pp.489-501, 2006 (Journal Indexed in SCI)
- XI. **A note on Separation and Compactness in Categories of Convergence Spaces**  
Baran M., KULA M.  
APPLIED GENERAL TOPOLOGY, vol.4, pp.1-13, 2003 (Journal Indexed in SCI Expanded)
- XII. **Compactness, perfectness, separation, minimality and closedness with respect to closure operators**  
Baran M.  
APPLIED CATEGORICAL STRUCTURES, vol.10, no.4, pp.403-415, 2002 (Journal Indexed in SCI)
- XIII. **Closure operators in convergence spaces**  
Baran M.  
ACTA MATHEMATICA HUNGARICA, vol.87, pp.33-45, 2000 (Journal Indexed in SCI)
- XIV. **Completely regular objects and normal objects in topological categories**  
Baran M.  
ACTA MATHEMATICA HUNGARICA, vol.80, no.3, pp.211-224, 1998 (Journal Indexed in SCI)
- XV. **T-3 and T-4-objects in topological categories**  
Baran M.  
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.29, no.1, pp.59-69, 1998 (Journal Indexed in SCI)
- XVI. **A notion of compactness in topological categories**  
Baran M.  
PUBLICATIONES MATHEMATICAE-DEBRECEN, vol.50, pp.221-234, 1997 (Journal Indexed in SCI)
- XVII. **T Objects in Topological Categories, Acta Math**  
Baran M., ALTINDİŞ H.  
ACTA MATHEMATICA HUNGARICA, vol.71, pp.41-48, 1996 (Journal Indexed in SCI Expanded)
- XVIII. **T Objects in Topological Categories**  
Baran M., ALTINDİŞ H.  
KUWAIT JOURNAL OF SCIENCE, vol.22, pp.123-127, 1995 (Journal Indexed in SCI)
- XIX. **T-0-objects in topological categories**

Baran M., Altindis H.

JOURNAL OF THE UNIVERSITY OF KUWAIT-SCIENCE, vol.22, no.2, pp.123-127, 1995 (Journal Indexed in SCI)

**XX. GENERALIZED LOCAL SEPARATION PROPERTIES**

BARAN M.

INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.25, no.6, pp.615-620, 1994 (Journal Indexed in SCI)

**XXI. SEPARATION PROPERTIES**

BARAN M.

INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.23, no.5, pp.333-341, 1992 (Journal Indexed in SCI)

## Articles Published in Other Journals

**I. T-0 CONVERGENCE APPROACH SPACES**

Qasim M., BARAN M.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.69, no.1, pp.603-612, 2020 (Journal Indexed in ESCI)

**II.  $T_1$  Approach Spaces**

BARAN M., Qasim M.

Communications Faculty Of Science University of Ankara Series A1 Mathematics and Statistics, vol.68, no.1, pp.784-800, 2019 (Journal Indexed in ESCI)

**III. Local  $T_1$  Preordred spaces**

BARAN M.

Turkish Journal of Mathematics and Computer Science, vol.10, pp.169-172, 2018 (Refereed Journals of Other Institutions)

**IV. Local Pre-Hausdorff Constant filter convergence spaces**

ERCİYES A., BARAN M.

Turkish Journal of Mathematics Computer Science, 2018 (Refereed Journals of Other Institutions)

**V. Local  $T_0$  Filter Convergence Spaces**

BARAN M.

Turkish Journal of Mathematics Computer Science, no.10, 2018 (Refereed Journals of Other Institutions)

**VI. Local  $T_0$  Approach Spaces**

BARAN M., QASIM M.

Mathematical Sciences and Applications E-Notes (MSAEN), vol.5, no.1, pp.46-56, 2017 (Refereed Journals of Other Institutions)

**VII. Separation Properties in Topological Categories**

BARAN M.

Math. Balkanica, 1996 (Refereed Journals of Other Institutions)

**VIII. Separation Properties in Category of Filter Convergence Spaces**

BARAN M.

Bull. Calcutta Math, 1993 (Refereed Journals of Other Institutions)

**IX. The Notion of Closedness in Topological Categories**

BARAN M.

Comment. Math. Unic. Carolinae, 1993 (Refereed Journals of Other Institutions)

**X. Separation Properties at  $p$  for The Topological Categories of Reflexive Relation Spaces and Preordered Spaces**

BARAN M.

Math. Balkanica, 1992 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **LOCAL PRE-HAUSDORFF CONSTANT LIMIT SPACES**  
BARAN M., ERCİYES A.  
III. International Scientific and Vocational Studies Congress Science and Health, 27 June 2019
- II. **Lokal T<sub>0</sub> Semiuniform Limit Convergence Spaces**  
ERCİYES A., BARAN M.  
II. International Scientific and Vocational Studies Congress – Science and Mathematics(BILMES SCI 2018), Nevşehir, Turkey, 5 - 08 July 2018, pp.127-131
- III. **Closure Operators in Preordered Spaces**  
BARAN M.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- IV. **T<sub>0</sub> Preordered Spaces**  
BARAN M.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- V. **Closedness in Local Filter Convergence Spaces**  
BARAN M.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- VI. **T<sub>0</sub> LİMİT PRE-APPROACH SPACES**  
BARAN M., Qasım M.  
ICAT 2018, Antalya, Turkey, 28 April - 01 May 2018, pp.71
- VII. **Zero Dimensional Constant Filter Convergence Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Harran University, Şanlıurfa, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.829-830
- VIII. **Local Pre-Hausdorff Relation Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Harran University, Şanlıurfa, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.719-721
- IX. **Local T<sub>0</sub> Approach Spaces**  
BARAN M., Qasım M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), 11 - 13 May 2017
- X. **Zero-Dimensional Kent Convergence Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Harran University, Şanlıurfa, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.831-832
- XI. **Local T<sub>1</sub> Approach Spaces**  
BARAN M., Qasım M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), 11 - 13 May 2017
- XII. **Closedness in Reflexive Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Harran University, Şanlıurfa, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.680-681
- XIII. **Zero Dimensional Filter Convergence Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Engineering (ICOME-2017), Yıldız Teknik University, İstanbul, İstanbul, Turkey, 10 - 12 May 2017, pp.324
- XIV. **T<sub>0</sub> Approach Spaces**  
BARAN M., Qasım M.  
Baran M., "T<sub>0</sub> Approach Spaces", International Conference on Mathematics and Mathematics Engineering (ICOME-2017), Yıldız Teknik University, İstanbul, 10 - 12 May 2017
- XV. **Local T<sub>1</sub> Distance-Approach Spaces**  
BARAN M.

5th International Conference on Advanced Technology & Sciences (ICAT17) Proceedings, İstanbul, Turkey, 9 - 12 May 2017, pp.112-116

- XVI. **T1 Approach Spaces**  
BARAN M.  
", International Conference on Mathematics and Mathematics Engineering (ICOME-2017), Yıldız Teknik University, İstanbul, İstanbul, Turkey, 10 - 12 May 2017, pp.393
- XVII. **Zero Dimensional and Pre-Hausdorff Family Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Engineering (ICOME-2017), Yıldız Teknik University, İstanbul, İstanbul, Turkey, 10 - 12 May 2017, pp.325
- XVIII. **Local Separations in Reflexive Spaces**  
BARAN M.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016
- XIX. **Pre-Hausdorff Relation Spaces**  
BARAN M.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.280-285
- XX. **1st International Mediterranean Science and Engineering Congress (IMSEC 2016), October 26-28, 2016, Adana/Turkey Local Separations in Reflexive Spaces**  
BARAN M.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.274-279
- XXI. **T0 REFLEXIVE SPACES**  
BARAN M.  
International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.1452-1454
- XXII. **Closure Operators in Filter Convergence Spaces**  
BARAN M.  
International Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 - 14 May 2016, pp.464-465
- XXIII. **On the Zero-Dimensional Objects in The Category of Local Filter convergence Spaces**  
BARAN M., Erciyes A.  
International Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 - 14 May 2016, pp.514-515
- XXIV. **ON THE ZERO DIMENSIONAL OBJECTS IN CATEGORY OF LOCAL FILTER CONVERGENCE SPACES**  
ERCİYES A., BARAN M.  
International Conference on Mathematics and Mathematics Education(ICMME-2016), 12 - 14 May 2016
- XXV. **Pre-Hausdorff Constant Filter Convergence Spaces**  
BARAN M., Erciyes A.  
International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016, pp.389-396
- XXVI. **Closure Operators in Reflexive Spaces**  
BARAN M., Baran T. M.  
International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016, pp.140-149

## Supported Projects

BARAN M., QASIM M., Project Supported by Higher Education Institutions, T0 ve T1 Yaklaşım Uzayları, 2017 - 2018

BARAN M., BARAN T. M. , Project Supported by Higher Education Institutions, YARIDÜZGÜN UZAYLARDA KAPANIŞ

OPERATÖRLERİ, 2015 - 2016

## Citations

Total Citations (WOS):137

h-index (WOS):9