

Prof. OSMAN MUCUK

Personal Information

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Address: Erciyes Üniversitesi, Fen Fakültesi, Matematik Bölümü, Kat:3 Melikgazi /KAYSERİ

Education Information

Doctorate, University of Wales, Bangor, School Of Mathematics, Mathematics, United Kingdom 1989 - 1993

Post Graduate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik Bölümü, Turkey 1985 - 1988

Under Graduate, Inonu University, Fen-Edebiyat Fakültesi, Matematik, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Monodromy groupoid of a topological groupoid and covering groups of non-connected topological groups, University Of Wales, Bangor, School Of Mathematics, Mathematics, 1993

Post Graduate, Hausdorff Toplanabilme, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Bölümü, 1988

Research Areas

Mathematics, Algebraic Topology, Sequences, Series, Summability, Natural Sciences

Academic Titles / Tasks

Professor, Erciyes University, Fen Fakültesi, Matematik, 2002 - Continues

Associate Professor, Erciyes University, Fen Fakültesi, Matematik, 1996 - 2002

Assistant Professor, Erciyes University, Fen Fakültesi, Matematik, 1994 - 1996

Academic and Administrative Experience

Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2009 - 2010

Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2003 - 2009

Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2000 - 2006

Erciyes Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2002 - 2005

Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 1998 - 2000

Courses

Genel Matematik, Under Graduate, 2013 - 2014
GENEL TOPOLOJİ , Under Graduate, 2013 - 2014
Cebirsel Topoloji, Post Graduate, 2013 - 2014

Advising Theses

MUCUK O., Çok işlemlerli gruplarda bölüm crossed modülleri ve grupoidleri, Doctorate, T.Şahan(Student), 2014
MUCUK O., Çapraz modül ve katlı grupoidlerde normallik ve bölüm objeleri, Post Graduate, S.Demir(Student), 2014
MUCUK O., Dizisel Anlamda Süreklilik, Kompaktlık ve İrtibatlılık, Post Graduate, F.Gençoğlu(Student), 2013
MUCUK O., İç (İnternal) groupoidler ve örtü morfizmleri, Doctorate, H.Fulya(Student), 2013
MUCUK O., Kategorik grupların örtüleri üzerine, Post Graduate, T.ŞAHAN(Student), 2010
MUCUK O., Çok işlemlerli topolojik grupların örtü morfizmleri ve Local topolojik gruplar, Doctorate, H.Yeşim(Student), 2010
MUCUK O., Internal (İç) Kategoriler ve Crossed Modüller, Post Graduate, Ö.BALKANLI(Student), 2009
MUCUK O., Genelleştirilmiş monodromy groupoidi ve H-grup groupoid, Doctorate, B.BAĞRIYANIK(Student), 2009
MUCUK O., Topolojik grupların evrensel örtüleri üzerine, Post Graduate, H.Fulya(Student), 2007
MUCUK O., Topolojik R-modül örtüleri ve internal groupoid örtü morfizmleri, Doctorate, N.ALEMDAR(Student), 2007
MUCUK O., Temel groupoidler ve örtü morfizmleri, Post Graduate, H.Yeşim(Student), 2003
MUCUK O., Topolojik groupoidler ve morfizmleri, Post Graduate, B.BAĞRIYANIK(Student), 2003
MUCUK O., Topolojik grupların örtü uzayları", Post Graduate, O.Alp(Student), 2002

Jury Memberships

Appointment Academic Staff, Profesörlük Atamaları, Profesörlük Ataması , January, 2014
Associate Professor Exam, Doçentlik sınavı, Doçentlik Jurisi, October, 2013
Doctorate, Doktora Tez savunması, Doktora Sınavı, July, 2012
Appointment Academic Staff, Doçentlik Ataması, Doçentlik Ataması, June, 2012

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

- I. **Liftings and covering morphisms of crossed modules in group-group oids**
Demir Karakas S., MUCUK O.
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.3, pp.1407-1417, 2021 (Journal Indexed in SCI)
- II. **Groups up to congruence relation and from categorical groups to c-crossed modules**
Datuashvili T., MUCUK O., ŞAHAN T.
JOURNAL OF HOMOTOPY AND RELATED STRUCTURES, vol.15, pp.625-640, 2020 (Journal Indexed in SCI)
- III. **Crossed Modules, Double Group-Groupoids and Crossed Squares**
Temel S., Şahan T., Mucuk O.
Filomat, vol.34, no.6, pp.1755-1769, 2020 (Journal Indexed in SCI Expanded)
- IV. **Covering morphisms of topological internal groupoids**
MUCUK O., Akiz H. F.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.3, pp.1020-1029, 2020 (Journal Indexed in SCI)
- V. **Group-groupoid actions and liftings of crossed modules**
MUCUK O., Sahan T.
GEORGIAN MATHEMATICAL JOURNAL, vol.26, no.3, pp.437-447, 2019 (Journal Indexed in SCI)
- VI. **Topological Aspect of Monodromy Groupoid for a Group-Groupoid**

- MUCUK O., Demir S.
 FILOMAT, vol.33, no.2, pp.393-401, 2019 (Journal Indexed in SCI)
- VII. **Normality and quotient in crossed modules over groupoids and double groupoids**
 MUCUK O., DEMIR S.
 TURKISH JOURNAL OF MATHEMATICS, vol.42, no.5, pp.2336-2347, 2018 (Journal Indexed in SCI)
- VIII. **G-Connectedness in Topological Groups with Operations**
 MUCUK O., Cakalli H.
 FILOMAT, vol.32, no.3, pp.1079-1089, 2018 (Journal Indexed in SCI)
- IX. **Normality and Quotients in Crossed Modules and Group-groupoids**
 MUCUK O., ŞAHAN T., ALEMDAR N.
 APPLIED CATEGORICAL STRUCTURES, vol.23, no.3, pp.415-428, 2015 (Journal Indexed in SCI)
- X. **Monodromy Groupoid of an Internal Groupoid in Topological Groups with Operations**
 MUCUK O., Akiz H. F.
 FILOMAT, vol.29, no.10, pp.2355-2366, 2015 (Journal Indexed in SCI)
- XI. **Covering Groupoids of Categorical Rings**
 MUCUK O., DEMIR S.
 FILOMAT, vol.29, no.1, pp.39-49, 2015 (Journal Indexed in SCI)
- XII. **On G-Sequential Continuity**
 MUCUK O., Sahan T.
 FILOMAT, vol.28, no.6, pp.1181-1189, 2014 (Journal Indexed in SCI)
- XIII. **Coverings and crossed modules of topological groups with operations**
 MUCUK O., Sahan T.
 TURKISH JOURNAL OF MATHEMATICS, vol.38, no.5, pp.833-845, 2014 (Journal Indexed in SCI)
- XIV. **COVERING GROUPOIDS OF CATEGORICAL GROUPS**
 MUCUK O., Şahan T.
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.42, no.4, pp.419-430, 2013 (Journal Indexed in SCI)
- XV. **Existence of covering topological R-modules**
 ALEMDAR N., MUCUK O.
 FILOMAT, vol.27, no.6, pp.1121-1126, 2013 (Journal Indexed in SCI)
- XVI. **ON CONNECTEDNESS VIA A SEQUENTIAL METHOD**
 Cakalli H., MUCUK O.
 REVISTA DE LA UNION MATEMATICA ARGENTINA, vol.54, no.2, pp.101-109, 2013 (Journal Indexed in SCI)
- XVII. **Coverings of internal groupoids and crossed modules in the category of groups with operations**
 Akiz H. F., ALEMDAR N., MUCUK O., Şahan T.
 GEORGIAN MATHEMATICAL JOURNAL, vol.20, no.2, pp.223-238, 2013 (Journal Indexed in SCI)
- XVIII. **THE LIFTINGS OF R-MODULES TO COVERING GROUPOIDS**
 ALEMDAR N., MUCUK O.
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.41, no.6, pp.813-822, 2012 (Journal Indexed in SCI)
- XIX. **Group-groupoids and monodromy groupoids**
 MUCUK O., Kilicarslan B., Sahan T., ALEMDAR N.
 TOPOLOGY AND ITS APPLICATIONS, vol.158, no.15, pp.2034-2042, 2011 (Journal Indexed in SCI)
- XX. **Local subgroupoids II: Examples and properties**
 BROWN R., İÇEN İ., Mucuk O.
 TOPOLOGY AND ITS APPLICATIONS, vol.127, no.3, pp.393-408, 2003 (Journal Indexed in SCI)
- XXI. **A monodromy principle for universal coverings of topological rings**
 Mucuk O., OZDEMIR M.
 INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.31, no.12, pp.1531-1535, 2000 (Journal Indexed in SCI)
- XXII. **COVERING GROUPS OF NON-CONNECTED TOPOLOGICAL-GROUPS REVISITED**
 BROWN R., MUCUK O.
 MATHEMATICAL PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY, vol.115, pp.97-110, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Liftings of Crossed Modules in the Category of Groups with Operations**
Akiz H. F. , MUCUK O., Sahan T.
BOLETIM SOCIEDADE PARANAENSE DE MATEMATICA, vol.38, no.7, pp.181-193, 2020 (Journal Indexed in ESCI)
- II. **Normality and Quotient in the Category of Crossed Modules Within the Category of Groups with Operations**
Sahan T., MUCUK O.
BOLETIM SOCIEDADE PARANAENSE DE MATEMATICA, vol.38, no.7, pp.169-179, 2020 (Journal Indexed in ESCI)
- III. **Actions of Double Group-Groupoids and Covering Morphism**
Mucuk O., Demir S.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, no.4, pp.810-819, 2020 (Journal Indexed in ESCI)
- IV. **LACUNARY STATISTICALLY UPWARD AND DOWNWARD HALF QUASI-CAUCHY SEQUENCES**
Cakalli H., MUCUK O.
JOURNAL OF MATHEMATICAL ANALYSIS, vol.7, no.2, pp.12-23, 2016 (Journal Indexed in ESCI)
- V. **Local group-groupoids**
MUCUK O., AY H. Y. , BAĞRIYANIK B.
İstanbul Univ. Fen Fak. Dergisi, no.3, pp.97-108, 2008 (National Refreed University Journal)
- VI. **C MANFOLD GRUPLARININ ÖRTÜ GRUPLARI**
ALEMDAR N., MUCUK O., ÖZDEMİR M.
C. B. Ü. Fen Bilimleri Dergisi, vol.4, no.1, pp.9-18, 2008 (Other Refereed National Journals)
- VII. **Universal Covers of Topological Vector Spaces**
ALEMDAR N., MUCUK O.
AlgebrasGroups and Geometries, no.24, pp.119-128, 2007 (Refereed Journals of Other Institutions)
- VIII. **Some results on Local subgroupoids**
İÇEN İ., MUCUK O.
Italian Journal of Pure and Applied Mathematics, no.13, pp.9-20, 2003 (Refereed Journals of Other Institutions)
- IX. **Holonomy, extendibility, and the star universal cover of a topological groupoid**
MUCUK O., İÇEN İ.
APPLIED GENERAL TOPOLOGY, vol.1, no.1, pp.79-89, 2003 (Refereed Journals of Other Institutions)
- X. **Holonomy and Monodromy Groupoids, Lie Algebroids**
MUCUK O.
Banach Center Publications, Institute of Mathematics, Polish Academy of Science, vol.54, pp.9-20, 2001 (Refereed Journals of Other Institutions)
- XI. **Extendibility, monodromy and local triviality for topological groupoids**
MUCUK O., İÇEN İ.
International Journal of Mathematics and Mathematical Science, vol.27, no.3, pp.131-140, 2001 (Refereed Journals of Other Institutions)
- XII. **Coverings and ring-groupoids**
MUCUK O.
GEORGIAN MATHEMATICAL JOURNAL, vol.5, no.5, pp.475-482, 1998 (Refereed Journals of Other Institutions)
- XIII. **Locally topological groupoids**
MUCUK O.
TURKISH JOURNAL OF MATHEMATICS, vol.21, no.2, pp.235-243, 1997 (Refereed Journals of Other Institutions)
- XIV. **An application of the monodromy groupoid**
MUCUK O.
TURKISH JOURNAL OF MATHEMATICS, vol.21, no.2, pp.227-0, 1997 (Refereed Journals of Other Institutions)
- XV. **Star topological groupoids**
MUCUK O.
TURKISH JOURNAL OF MATHEMATICS, vol.20, no.2, pp.227-232, 1996 (Refereed Journals of Other Institutions)
- XVI. **Foliations locally Lie groupoids and holonomy**

RONALD B., MUCUK O.

Cah. Top. Geom. Diff. Cat., vol.37, no.1, pp.61-71, 1996 (Refereed Journals of Other Institutions)

XVII. **Monodromy groupoid of a Lie groupoid**

MUCUK O.

Cah. Top. Geom. Diff. Cat., pp.345-370, 1995 (Refereed Journals of Other Institutions)

XVIII. **Foliations locally topological groupoids, and holonomy**

MUCUK O.

Cah. Top. Geom. Diff. Cat., vol.37, pp.61-71, 1995 (International Refereed University Journal)

Books & Book Chapters

I. **Topoloji ve Kategori**

MUCUK O.

Nobel Yayınları, Ankara, 2010

II. **Topoloji (1. Basım)**

MUCUK O.

Nobel Yayınları Ankara, Ankara, 2009

III. **Lineer Dönüşümler ve Matrisler**

MUCUK O.

in: Uygulamalı Lineer Cebir, Prof Dr. Akın Ö., Editor, Palme Yayıncılık, Ankara, pp.253-290, 2002

Refereed Congress / Symposium Publications in Proceedings

I. **G-Connectedness of product topological spaces**

Mucuk O., Behram S., Çakallı H.

5 th International Conference of Mathematical Sciences (ICMS 2021), İstanbul, Turkey, 23 - 27 June 2021, pp.1-4

II. **G-Sequential methods in product spaces**

Behram S., Mucuk O.

5 th International Conference of Mathematical Sciences (ICMS 2021), İstanbul, Turkey, 23 - 27 June 2021, pp.1-4

III. **Normality and quotients in local crossed modules and local group-groupoids**

Akız H. F. , Mucuk O.

5 th International Conference of Mathematical Sciences (ICMS 2021), İstanbul, Turkey, 23 - 27 June 2021, pp.1-4

IV. **Internal Categories in the Category of Semi Abelian Algebras**

Mucuk O., Demir S.

Fourth International Conference of Mathematical Sciences (ICMS 2020)) , İstanbul, Turkey, 17 June 2020 - 21 January 2021, vol.2334, no.20008, pp.1-4

V. **Local Group-Groupoids and Local Crossed Modules**

Akız H. F. , Mucuk O.

Fourth International Conference of Mathematical Sciences (ICMS 2020)) , İstanbul, Turkey, 17 June 2020 - 21 January 2021, vol.2334, no.20004, pp.1-4

VI. **Topolojik Çaprazlanms Modüllerin Yükselmeleri**

ŞAHAN T., MUCUK O.

14. Ankara Matematik Günleri (AMG 2019), Ankara, Turkey, 28 - 29 June 2019, pp.119

VII. **Group-groupoids and crossed module aspects of monodromy groupoids**

Mucuk O., Demir S., Sahan T.

International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 31 July - 06 August 2018, vol.2086

VIII. **Internal groupoid actions and liftings of crossed modules within groups with operations**

Akız H. F. , MUCUK O., Sahan T.

International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 31 July - 06 August 2018, vol.2086

- IX. Quotients of monodromy groupoids**
MUCUK O., Sahan T.
International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 31 July - 06 August 2018, vol.2086
- X. Normality and Quotient of Crossed Modules within Group with Operations**
Sahan T., MUCUK O.
International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 31 July - 06 August 2018, vol.2086
- XI. Crossed module aspects of monodromy groupoids for topological internal groupoids**
Mucuk O., Demir S., Sahan T.
3rd International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 4 - 08 September 2019, vol.2183
- XII. Topological aspect of monodromy groupoid for a topological internal groupoid**
Akiz H. F. , MUCUK O.
3rd International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 4 - 08 September 2019, vol.2183
- XIII. Crossed modules of group-groupoids and double group-groupoids**
TEMEL S., ŞAHAN T., MUCUK O.
II. International Conference on Pure and Applied Mathematics (ICPAM 2018), Van, Turkey, 11 - 13 September 2018
- XIV. On Liftings of Crossed Modules**
MUCUK O., ŞAHAN T.
International Conference on Mathematics and Mathematics Education (ICMME-2017), Harran University, Şanlıurfa, Turkey, 11 - 13 May 2017
- XV. G-sequentially connectedness for topological groups with operations**
MUCUK O., Cakalli H.
3rd International Conference on Analysis and Applied Mathematics (ICAAM), Almaty, Kazakhstan, 7 - 10 September 2016, vol.1759
- XVI. Coverings of topological semi-abelian algebras**
MUCUK O., DEMİR S.
3rd International Conference on Analysis and Applied Mathematics (ICAAM), Almaty, Kazakhstan, 7 - 10 September 2016, vol.1759
- XVII. Lacunary statistically upward half quasi-Cauchy sequences**
Cakalli H., MUCUK O.
International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Turkey, 5 - 07 November 2015, vol.1676
- XVIII. Normality and quotient in crossed modules and some related categories**
MUCUK O.
Workshop on Applications of Topology in Mathematics and Computer Science, Ankara, Turkey, 7 - 08 September 2015
- XIX. Çapraz Modüller ve Katlı Grupoidlerde Normallik ve Bölüm**
MUCUK O., DEMİR S.
10. Ankara Matematik Günleri, Ankara, Turkey, 11 - 12 June 2015
- XX. Topological Internal Groupoids and Their Coverings**
AKIZ H. F. , ALEMDAR N., ŞAHAN T., MUCUK O.
IECMSA 2012, 3 - 07 September 2012
- XXI. Topolojik Modüllerin Evrensel Örtüleri**
ALEMDAR N., MUCUK O.
AMG-2012, Turkey, 31 May - 01 June 2012
- XXII. İnternal Grupoids, Topological Group with Operations And Crossed Modules**
AKIZ H. F. , ALEMDAR N., MUCUK O.
23. Ulusal Matematik Sempozyumu, Kayseri, Turkey, 4 - 07 August 2010
- XXIII. Çok İşlemli Grupların Kategorisinde İç (İnternal) Grupoidlerin Örtü Grupoidleri**
ALEMDAR N., MUCUK O.
23. Ulusal Matematik Sempozyumu, Turkey, 4 - 07 August 2010

XXIV. R-Modüllerin Örtü Grupoidlerine Yükselmesi

ALEMDAR N., MUCUK O.

AMG-2010, Turkey, 3 - 04 June 2010

XXV. Covering Groupoids and Fundamental Groupoids

ALEMDAR N., MUCUK O.

ICTA-2009, 6 - 11 July 2009

Supported Projects

MUCUK O., KILIÇARSLAN B. B. , Project Supported by Higher Education Institutions, TOPOLOJİK GRUPLARIN ÖRTÜLERİ VE GENELLEŞTİRİLMİŞ MONODROMY GROUPOİDİ, 2007 - 2009

Edit Congress and Symposium Activities

13th Serbian Mathematical Congress, May 22nd-25th, Attendee, Vrnjacka Banja, Serbia And Montenegro, 2014

Topology and Applications (ATA 2014), May 26-29, 2014 Vrnjacka Banja, Serbia,, Attendee, Vrnjacka Banja, Serbia And Montenegro, 2014

International Conference of Mathematical Sciences, Maltepe Üniversitesi, İstanbul 4-10 August, Attendee, İstanbul, Turkey, 2009

2 nd International Conference on Topology and its Applications, Hacettepe University, Attendee, Ankara, Turkey, 2009

International Topology Conference, Hacettepe University, 12-18 August, Attendee, Ankara, Turkey, 2001

Workshop on Orbifolds groupoids and their applications University of Wales, Bangor, U.K 11-15 September., Attendee, Bangor, Turkey, 2000

Citations

Total Citations (WOS):201

h-index (WOS):9

Scholarships

Bilimsel ziyaretçi desteği, University, 2004 - Continues

Doktora sonrası araştırma bursu, TÜBİTAK, 2004 - Continues

Araştırma destek bursu, University, 2000 - Continues

Yurtdışı doktora bursu, Ministry of Education, 1989 - Continues