

Curriculum Vitae

I. Date personale :

Nume : Marius Tărnăuceanu

Data și locul nașterii : 22 octombrie 1974, Bârlad

Naționalitate : română

Statut social : necăsătorit

Adresă : Facultatea de Matematică

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II. Studii :

- absolvent al Colegiului "Gh. R. Codreanu" Bârlad (1994)
- licențiat în Matematică, Universitatea "Al. I. Cuza" Iași (1999)
- masterat în Matematică, Universitatea "Al. I. Cuza" Iași (1999-2001)
- doctorat în Matematică (Algebră), Universitatea "Ovidius" Constanța (1999-2003)
 - titlul tezei de doctorat : *Acțiuni ale grupurilor finite pe laticice*
 - conducător : prof. dr. M. Ștefănescu
 - referenți științifici :
 - acad. prof. dr. C. Năstăsescu
 - c.p. I dr. Ș. Basarab
 - prof. dr. I. Tofan
- program postdoctoral în Matematică, Universitatea "Al. I. Cuza" Iași (2005-2007)
 - director de proiect : prof. dr. E. Popa
- abilitare în Matematică (Algebră), Universitatea "Al. I. Cuza" Iași (2015)
 - titlul tezei de abilitare : *Contribuții la studiul laticelor de subgrupuri*

III. Limbi străine cunoscute :

- engleza
- franceza

IV. Poziția : profesor, Facultatea de Matematică, Universitatea "Al. I. Cuza" Iași

V. Experiență didactică :

- preparator (februarie 2001 – septembrie 2003), Catedra de Algebră, Facultatea de

Matematică, Universitatea "Al. I. Cuza" Iași

- asistent (octombrie 2003 – septembrie 2007), Catedra de Algebră / Matematici Fundamentale, Facultatea de Matematică, Universitatea "Al. I. Cuza" Iași
- lector (octombrie 2007 – septembrie 2013), Facultatea de Matematică, Universitatea "Al. I. Cuza" Iași
- conferențiar (octombrie 2013 – februarie 2019), Facultatea de Matematică, Universitatea "Al. I. Cuza" Iași
- profesor (februarie 2019 și până în prezent), Facultatea de Matematică, Universitatea "Al. I. Cuza" Iași

Am ținut următoarele cursuri :

- Algebră liniară (Facultatea de Matematică, an I)
- Aritmetică și combinatorică (Facultatea de Matematică, an I)
- Structuri algebrice fundamentale (Facultatea de Matematică, an I)
- Aritmetică în inele și teoria modulelor (Facultatea de Matematică, an II)
- Teoria grupurilor și aplicații (CO, Facultatea de Matematică, an II)
- Teoria grafurilor (Facultatea de Matematică, master, anii I și II)
- Complemente de algebră (Facultatea de Matematică, an III)
- Capitole speciale de algebră (Facultatea de Matematică, master, an II)
- Reprezentări liniare de grupuri finite (Facultatea de Matematică, școala doctorală, an I)

și seminarii / laboratoare aferente următoarelor cursuri :

- Logică și teoria mulțimilor (Facultatea de Matematică, an I)
- Algebră liniară (Facultatea de Matematică, an I)
- Aritmetică și combinatorică (Facultatea de Matematică, an I)
- Algebră I / Structuri algebrice fundamentale (Facultatea de Matematică, an I)
- Algebră II / Teoria divizibilității și ecuații algebrice (Facultatea de Matematică, an II)
- Algebră III / Teoria modulelor (Facultatea de Matematică, an III)
- Limbaje formale (Facultatea de Matematică, an III)
- Complemente de matematică (Facultatea de Matematică, an IV)
- Complemente de algebră (Facultatea de Matematică, anii III și IV)
- Teoria grupurilor și aplicații (SO, Facultatea de Matematică, an II)
- Aritmetică și teoria numerelor (SO, Facultatea de Matematică, an III)
- Teoria grafurilor (Facultatea de Matematică, master, anii I și II)
- Capitole speciale de algebră (Facultatea de Matematică, master, an II)
- Reprezentări liniare de grupuri finite (Facultatea de Matematică, școala doctorală, an I)
- Algebră (Facultatea și Colegiul de Informatică, an I)
- Matematică (Facultatea de Chimie, an I)
- Matematică pentru studenții străini (Facultatea de Litere, an I)
- Introducere în informatică (Facultatea de Educație Fizică și Sport, an I)

De asemenea, am ținut o serie de cursuri și seminarii / laboratoare pentru perfecționarea profesorilor din învățământul preuniversitar.

VI. Alte activități profesionale :

- recenzor pentru :
 - Mathematical Reviews (115 recenzii din 2004)
 - Zentralblatt Math (188 recenzii din 2004)

- referent ocazional pentru :
 - Algebra Colloquium
 - Analele Științifice ale Universității "Al. I. Cuza" Iași, seria Matematică
 - Analele Științifice ale Universității "Al. I. Cuza" Iași, seria Informatică
 - Analele Științifice ale Universității de Vest Timișoara
 - Applicable Analysis and Discrete Mathematics
 - Arabian Journal of Mathematics
 - Ars Combinatoria
 - Bulletin of the Iranian Mathematical Society
 - Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie (N.S.)
 - Communications in Algebra
 - Computers & Mathematics with Applications
 - Discrete Mathematics
 - European Journal of Combinatorics
 - Fuzzy Sets and Systems
 - Glasgow Mathematical Journal
 - Indian Journal of Mathematics
 - Information Sciences
 - International Journal of Open Problems in Computer Science and Mathematics
 - Iranian Journal of Fuzzy Systems
 - Italian Journal of Pure and Applied Mathematics
 - Journal of Algebraic Combinatorics
 - Journal of Inequalities and Applications
 - Journal of Intelligent and Fuzzy Systems
 - Journal of Number Theory
 - Mathematica (Cluj)
 - Mathematical Reports
 - Publicationes Mathematicae Debrecen
 - Tamkang Journal of Mathematics
 - Turkish Journal of Mathematics

- membru AMS

- membru SAGTA (structuri algebrice, geometrice, topologice și aplicații), centru de cercetare recunoscut de către CNEAA

- membru al Fundației Seminarului Matematic "Al. Myller" Iași

- membru al echipelor de cercetare ale următoarelor granturi :
 - *Clase remarcabile de structuri algebrice generalizate* (CNCSIS (A) / 2001, cod 971, director de proiect : prof. dr. I. Tofan)
 - *Studii postdoctorale de teoria axiomatică a potențialului și conexiuni cu : procese stochastice, sisteme semidinamice, analiză armonică necomutativă, ecuații cu derivate parțiale* (CEEEX / 2005, cod 17, director de proiect : prof. dr. E. Popa)
 - *Topologii slabe și topologii de ordine pe spații de măsuri cu aplicații în probleme neconvexe* (CNCSIS (A) / 2006, cod 1152, director de proiect : prof. dr. E. Popa)
 - *Noi aspecte asupra structurilor cuaternionice pe varietăți diferențiabile și subvarietățile acestora. Aplicații* (CEEEX / 2006, cod 68, director de proiect : lect. dr. M. Munteanu)
 - *Aplicații ale grupurilor în studiul unor structuri geometrice remarcabile pe varietăți diferențiabile. Reprezentare și modelare geometrică* (CNCSIS (AT) / 2006, cod 190, director de proiect : lect. dr. M. Munteanu)
 - *Hipergrupuri și grupuri abeliene. Aplicații* (GAR / 2007, cod 88, director de proiect : conf. dr. V. Fotea)
- editor (împreună cu prof. dr. I. Tofan și conf. dr. M. Gontineac) al volumului *Advances in Abstract Algebra*, Ed. Al. Myller, Iași, 2007, ISBN 973-86987-8-2
- editor al Analelor Științifice ale Universității "Al. I. Cuza" Iași, seria Matematică
- membru al comitetului de organizare al concursului "Gaudeamus", Facultatea de Matematică, Universitatea "Al. I. Cuza" Iași

VII. Domenii de interes :

- teoria grupurilor
- teoria laticelor

VIII. Premii obținute :

- premiu pentru activitatea științifică pe anul universitar 2014-2015, Universitatea "Al. I. Cuza" Iași

IX. Hobiuri :

- cititul
- poezia
- muzica
- expedițiile

Rezultate obținute în domeniul matematicii până la absolvirea facultății :

- Concursul interjudețean "Gh. Vrânceanu" :
 - premiul I în 1989, 1990
 - premiul II în 1991

- Olimpiada județeană de matematică :
 - premiul I din 1987 până în 1994
- Olimpiada națională de matematică :
 - premiul II în 1990
 - premiul III în 1988, 1994
 - mențiuni în 1993
 - premiul special pentru originalitate în 1988, 1990, 1993, 1994
 - selecționat în lotul lărgit pentru Olimpiada internațională de matematică în 1993, 1994
- Concursul studentesc "Traian Lalescu" :
 - premiul III în 1995
- Sesiunea de comunicări ale cercurilor științifice studentești :
 - premiul II în 2000
 - mențiuni în 1997

Activitate științifică :

Articole :

1. *A property of the functors Tor and Ext*, Analele Științifice ale Universității "Ovidius" Constanța, vol. VII (1999), seria Matematică, fasc. 2, pag. 69-79, MR 1979154 (2004a:16012), ZBL 1034.16500.
2. *Non-units ideals in algebraic function field*, Scripta Scientiarum Mathematicarum, vol. II, fasc. I, Chișinău, 2002, pag. 180-190.
3. *Some properties of the divisible rings*, Scripta Scientiarum Mathematicarum, vol. II, fasc. I, Chișinău, 2002, pag. 172-180.
4. *On the subgroup lattice of a semidirect product of finite cyclic groups*, Memoriile Secțiilor Științifice ale Academiei Române, tom XXV (2002), pag. 219-228, MR 2150333 (2006h:20037), citat de:
 - O.O. Oluwafunmilayo, M. Enioluwafe, *On counting subgroups for a class of finite non-abelian p-groups and related problems*, IMHOTEP – Math. Proc., vol. 4 (2017), nr. 1, pag. 34-43.
5. *Actions of groups on lattices*, Analele Științifice ale Universității "Ovidius" Constanța, vol. X (2002), seria Matematică, fasc. 1, pag. 135-148, MR 2070193 (2005b:05220), ZBL 1058.05069, citat de:
 - V. Leoreanu-Fotea, B. Davvaz, F. Feng, C. Chiper, *Join spaces, soft join spaces and lattices*, Analele Științifice ale Universității "Ovidius" Constanța, vol. XX (2014), seria Matematică, fasc. 1, pag. 155-167.
6. *Fundamental group lattices*, Current Research in Computer Science, Theory and Applications, F. Eugeni, H. Luchian eds., Ed. Panfilius, Iași, 2003, pag. 117-126, citat de:
 - W.O. Ali, *The number of subgroups of a finite abelian group*, Lucrare de disertație, University of Benghazi, Libia, 2013.

7. *Special classes of hypergroup representations*, Italian Journal of Pure and Applied Mathematics, vol. 14 (2003), pag. 213-218, MR 2073562, ZBL 1149.20305, citat de:
 - Y. Feng, *The L-fuzzy hyperstructures (X, \wedge', \vee) and (X, \vee', \wedge)* , Italian Journal of Pure and Applied Mathematics, vol. 26 (2009), pag. 159-170.
 - A. Mehrpooya, Y. Sayyari, M.R. Molaei, *Algebraic and Shannon entropies of commutative hypergroups and their connection with information and permutation entropies and with calculation of entropy for chemical algebras*, 2019.
8. *On the groups associated to genetic recombinations*, Analele Științifice ale USAMV Iași, tom XLVI (2003), vol. 2, pag. 165-170, MR 2149041, ZBL 1168.20311.
9. *Latticeal representations of groups*, Analele Științifice ale Universității "Al. I. Cuza" Iași, tom L (2004), seria Matematică, fasc. 1, pag. 19-31, MR 2129028 (2006e:20029), ZBL 1078.20027.
10. *Elementary non-CLT groups of order pq^n* , Current Topics in Computer Science, F. Eugeni, H. Luchian eds., Ed. Panfilius, Iași, 2004, pag. 105-108.
11. *A note on fundamental group lattices*, Current Topics in Computer Science, F. Eugeni, H. Luchian eds., Ed. Panfilius, Iași, 2004, pag. 109-114.
12. *On groups whose lattices of subgroups are pseudocomplemented*, Fuzzy Systems & Artificial Intelligence, vol. 10 (2004), nr. 2, pag. 45-49.
13. *U-decomposable groups*, Analele Științifice ale USAMV Iași, tom XLVII (2004), vol. 2, pag. 229-236, MR 2148117.
14. *On the group of autoprojectivities of an abelian p -group*, Current Research in Mathematics of Fuzzy Systems, E. Cortellini, H.N. Teodorescu, I. Tofan, A.C. Volf eds., Ed. Panfilius, Iași, 2005, pag. 93-96.
15. *Pseudocomplemented groups*, Analele Științifice ale Universității "Al. I. Cuza" Iași, tom LI (2005), seria Matematică, fasc. 1, pag. 201-206, MR 2187369 (2006i:20020), ZBL 1109.20018.
16. *A note on U-decomposable groups*, Analele Științifice ale USAMV Iași, tom XLVIII (2005), vol. 2, pag. 409-412, MR 2397193 (2009a:20035), ZBL 1168.20305.
17. *On finite groups without normal subgroups of the same order*, Memoriile Secțiilor Științifice ale Academiei Române, tom XXVIII (2005), pag. 17-20, MR 2360443 (2008i:20023).
18. *On the subgroup lattice of an abelian finite group*, Ratio Mathematica, nr. 15 (2006), pag. 65-74.
19. *Complementation in subgroup lattices*, Analele Științifice ale USAMV Iași, tom XLIX (2006), vol. 2, pag. 303-321, MR 2379317 (2008m:20038), ZBL 1167.20315.
20. *Complementation in normal subgroup lattices*, Analele Științifice ale USAMV Iași, tom XLIX (2006), vol. 2, pag. 285-302, MR 2379318 (2008m:20039), ZBL 1167.20316.

21. *On isomorphisms of canonical E-lattices*, Fixed Point Theory, vol. 8 (2007), nr. 1, pag. 131-139, MR 2309287 (2008a:08001), ZBL 1123.06004.
22. *On the poset of conjugacy classes of subgroups of groups*, Advances in Abstract Algebra, I. Tofan, M. Gontineac, M. Tărnăuceanu eds., Ed. Al. Myller, Iași, 2007, pag. 103-122.
23. *E-lattices*, Italian Journal of Pure and Applied Mathematics, vol. 22 (2007), pag. 27-38, MR 2360994 (2009a:06015), ZBL 1175.06001.
24. *A new method of proving some classical theorems of abelian groups*, Southeast Asian Bulletin of Mathematics, vol. 31 (2007), nr. 6, pag. 1191-1203, MR 2386997 (2009a:20090), ZBL 1145.20313, citat de:
 - M. Hampejs, L. Tóth, *On the subgroups of finite abelian groups of rank three*, Annales Universitatis Scientiarum Budapestinensis, Sect. Comp., vol. 39 (2013), pag. 111-124.
 - M.A. Bărăscu, *Graduări pe algebre de matrice*, Teză de doctorat, Facultatea de Matematică și Informatică, Universitatea București, 2013.
 - N. Holighaus, *Theory and implementation of adaptive time-frequency*, Teză de doctorat, University of Wien, Austria, 2013.
 - W.O. Ali, *The number of subgroups of a finite abelian group*, Lucrare de disertație, University of Benghazi, Libia, 2013.
 - W.G. Nowak, L. Tóth, *On the average number of subgroups of the group $Z_m \times Z_n$* , International Journal of Number Theory, vol. 10 (2014), pag. 363-374.
 - M. Hampejs, N. Holighaus, L. Tóth, C. Wiesmeyr, *Representing and counting the subgroups of the group $Z_m \times Z_n$* , Journal of Numbers, vol. 2014, article ID 491428.
 - C.Y. Chew, A.Y.M. Chin, C.S. Lim, *The number of subgroups of a direct product of cyclic p-groups*, 2015.
 - B. Davvaz, R.K. Ardekani, *Counting fuzzy normal subgroups of non-abelian finite groups*, Journal of Multiple-Valued Logic and Soft Computing, vol. 28 (2017), nr. 6, pag. 571-590.
 - L. Tóth, W. Zhai, *On the error term concerning the number of subgroups of the groups $Z_m \times Z_n$ with $m, n \leq x$* , Acta Arithmetica, vol. 183 (2018), nr. 3, pag. 285-299.
 - C.Y. Chew, A.Y.M. Chin, C.S. Lim, *The number of subgroups of finite abelian p-groups of rank 4 and higher*, 2019.
25. *On the number of fuzzy subgroups of finite abelian groups* (cu L. Bentea), Fuzzy Sets and Systems, vol. 159 (2008), nr. 9, pag. 1084-1096, MR 2418786 (2009c:20127), ZBL 1171.20043, citat de:
 - Ho. Naraghi, Ha. Naraghi, A. Iranmanesh, *On fuzzy subgroups of finite p-groups*, AAA76-76th. Workshop on General Algebra, Linz, Austria, 2008.
 - R. Sulaiman, Abd. G. Ahmad, *Counting fuzzy subgroups of symmetric groups S_2 , S_3 and alternating group A_4* , Journal of Quality Measurement and Analysis, vol. 6 (2010), nr. 1, pag. 57-63.

- Z. Wang, L. Shu, *Several equivalent conditions of fuzzy subgroups of some groups*, Fuzzy Information and Engineering, Advances in Soft Computing, Springer, vol. 78 (2010), pag. 41-47, doi: 10.1007/978-3-642-14880-4_5.
- R. Sulaiman, *Relasi ekuivalensi pada subgrup fuzzy*, Jurnal Mat. Stat., vol. 10 (2010), nr. 2, pag. 152-159.
- A. Jaballah, F.B. Saidi, *Length of maximal chains and number of fuzzy ideals in commutative rings*, Journal of Fuzzy Mathematics, vol. 18 (2010), nr. 3, pag. 743-750.
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- O. Ndiweni, B.B. Makamba, *Distinct fuzzy subgroups of some dihedral groups*, Advances in Fuzzy Sets and Systems, vol. 9 (2011), nr. 1, pag. 65-91.
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- J.M. Oh, *The number of chains of subgroups of a finite cyclic group*, European Journal of Combinatorics, vol. 33 (2012), nr. 2, pag. 259-266.
- R. Sulaiman, *Constructing fuzzy subgroups of symmetric groups S_4* , International Journal of Algebra, vol. 6 (2012), nr. 1, pag. 23-28.
- R. Sulaiman, *Subgroups lattice of symmetric group S_4* , International Journal of Algebra, vol. 6 (2012), nr. 1, pag. 29-35.
- R. Sulaiman, *Fuzzy subgroups computation of finite group by using their lattices*, International Journal of Pure and Applied Mathematics, vol. 78 (2012), nr. 4, pag. 479-489.
- Y. Chen, Y. Jiang, S. Jia, *On the number of fuzzy subgroups of finite abelian p -groups*, International Journal of Algebra, vol. 6 (2012), nr. 5, pag. 233-238.
- M.O. Massa'deh, *Some structure properties of anti L - Q -fuzzy and normal fuzzy subgroups*, Asian Journal of Algebra, vol. 5 (2012), nr. 1, pag. 21-27.
- B. Davvaz, R.K. Ardekani, *Counting fuzzy subgroups of a special class of non-abelian groups of order p^3* , Ars Combinatoria, vol.

- 103 (2012), pag. 175-179.
- Ha. Naraghi, Ho. Naraghi, *The determination of the number of distinct fuzzy subgroups of the group $Z_{\{p_1 p_2 \dots p_n\}}$ and the dihedral group $D_{\{2p_1 p_2 \dots p_n\}}$* , International Journal of Mathematical Archive, vol. 3 (2012), nr. 4, pag. 1712-1717.
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 - O. Ndiweni, B.B. Makamba, *Classification of fuzzy subgroups of a dihedral group of order $2pqr$ for distinct primes p, q and r* , International Journal of Mathematical Sciences and Engineering Applications, vol. 6 (2012), nr. 4, pag. 159-174.
 - B. Humera, Z. Raza, *On subgroups lattice of quasidihedral group*, International Journal of Algebra, vol. 6 (2012), nr. 25, pag. 1221-1225.
 - J.M. Oh, Y. Kim, K.W. Hwang, *The number of chains of subgroups in the lattice of subgroups of the dicyclic group*, Discrete Dynamics in Nature and Society, vol. 2012, article ID 760246, doi:10.1155/2012/760246.
 - N. Doda, P.K. Sharma, *Different possibilities of fuzzy subgroups of a cyclic group*, I, Advances in Fuzzy Sets and Systems, vol. 12 (2012), nr. 2, pag. 101-109.
 - M.O. Massa'deh, *On M-fuzzy cosets, M-conjugate of M-upper fuzzy subgroups over M-groups*, Global Journal of Pure and Applied Mathematics, vol. 8 (2012), nr. 3, pag. 295-303.
 - J.M. Oh, *The number of chains of subgroups of a finite dihedral group*, 2012.
 - J.M. Oh, *Enumeration of chains of subgroups in the lattice of subgroups of the dihedral group*, 2012.
 - F. Saeedi, T. Rezaiyan, *Counting fuzzy subgroups of some abelian p-groups of ranks 2, 3 and 4*, 2012.
 - B. Humera, Z. Raza, *On fuzzy subgroups of finite abelian groups*, International Mathematical Forum, vol. 8 (2013), nr. 4, pag. 181-190.
 - B. Davvaz, R.K. Ardekani, *Classifying fuzzy subgroups of dicyclic groups*, Journal of Multiple-Valued Logic and Soft Computing, vol. 20 (2013), nr. 5-6, pag. 507-525.
 - H. Darabi, M. Imanparast, *Counting number of fuzzy subgroups of some of dihedral groups*, International Journal of Pure and Applied Mathematics, vol. 85 (2013), nr. 3, pag. 563-575.
 - M.O. Massa'deh, *Structure properties of an intuitionistic anti fuzzy M-subgroups*, Journal of Applied Computer Science & Mathematics, vol. 14 (2013), nr. 7, pag. 42-44.
 - M. Imanparast, H. Darabi, *A recursive formula for the number of fuzzy subgroups of finite cyclic groups*, Journal of Advances in

- Computer Research, vol. 4 (2013), nr. 1, pag. 55-63.
- J.M. Oh, *Fuzzy subgroups of the direct product of a generalized quaternion group and a cyclic group of any odd order*, Iranian Journal of Fuzzy Systems, vol. 10 (2013), nr. 5, pag. 97-112.
 - B. Davvaz, R.K. Ardekani, *Counting fuzzy subgroups of non-abelian groups of order p^3 and 2^4* , Journal of Multiple-Valued Logic and Soft Computing, vol. 21 (2013), nr. 5-6, pag. 479-492.
 - H. Darabi, F. Saeedi, M. Farrokhi D.G., *The number of fuzzy subgroups of some non-abelian groups*, Iranian Journal of Fuzzy Systems, vol. 10 (2013), nr. 6, pag. 101-107.
 - J.M. Oh, *An explicit formula for the number of fuzzy subgroups of a finite abelian p -group of rank two*, Iranian Journal of Fuzzy Systems, vol. 10 (2013), nr. 6, pag. 125-135.
 - N. Doda, P.K. Sharma, *Counting the number of intuitionistic fuzzy subgroups of finite abelian groups of different order*, Notes on Intuitionistic Fuzzy Sets, vol. 19 (2013), nr. 4, pag. 42-47.
 - A. Sehgal, P.K. Sharma, *On the number of fuzzy subgroups of a finite cyclic group*, Proceeding of National Conference on Advances in Mathematics and its Applications, India, 2013, pag. 293-298.
 - E. Saltürk, *The number of fuzzy subgroups and codes with some applications*, Tezä de doctorat, Yildiz Technical University, Istanbul, Turkey, 2013.
 - R. Sulaiman, B.P. Prawoto, *The number of fuzzy subgroups of rectangle groups*, International Journal of Algebra, vol. 8 (2014), nr. 1, pag. 17-23.
 - P. Pandiammal, *A study on intuitionistic anti L -fuzzy M -subgroups*, International Journal of Computer & Organization Trends, vol. 5 (2014), pag. 43-52.
 - Y. Shabanpour, S. Sedghi, *Reconsider on the number of fuzzy subgroups of finite abelian p -groups*, MAGNT Research Report, vol. 2 (2014), nr. 7, pag. 50-56.
 - B.B. Makamba, O. Ndiweni, *Distinct fuzzy subgroups of a dihedral group of order $2pqrs$ for distinct primes p, q, r and s* , Iranian Journal of Fuzzy Systems, vol. 12 (2015), nr. 3, pag. 137-149.
 - A. Sehgal, S. Sehgal, P.K. Sharma, *The number of fuzzy subgroups of a finite dihedral $D_{\{p^m q^n\}}$* , International Journal of Fuzzy Mathematical Archive, vol. 8 (2015), nr. 1, pag. 51-57.
 - A. Sehgal, S. Sehgal, P.K. Sharma, *Fuzzy subgroups of a finite abelian group $Z_{\{p^m q^r\}} \times Z_{\{p^n q^s\}}$* , Proceedings of The 4th International Fuzzy Systems Symposium, Turcia, 2015.
 - S.A. Adebisi, *The classification of the fuzzy subgroups for a class of finite nilpotent groups*, 2015.
 - N. Kumar, A. Sehgal, S. Sehgal, P.K. Sharma, *Quadratic form of subgroups of a finite abelian p -group of rank two*, Annals of Pure and Applied Mathematics, vol. 10 (2015), nr. 2, pag. 165-167.

- R. Sulaiman, *The symmetry property for the number of fuzzy subgroups of rectangle groups*, International Mathematical Forum, vol. 11 (2016), nr. 2, pag. 55-60.
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