

ОБЩ СПИСЪК НА ЦИТИРАНИЯТА

на доц. д-р. Йорг Копиц

1. Koppitz J., T. Musunthia. The rank of the inverse semigroup of partial automorphisms on a finite fence. Semigroup Forum, 102, 2, Springer, 2021, ISSN:0037-1912, DOI:<https://doi.org/10.1007/s00233-020-10150-1>, 437-455.

1.1 Li, De Biao; Zhang, Wen Ting; Luo, Yan Feng The monoid of orientation-preserving k-extensive transformations. Semigroup Forum 104, No. 2, 376-397 (2022).

1.2 Thanakorn Prinyasart, Ratana Srithus and Jirapa Nuntharatkul, Various regularities for semigroups of transformations on a finite set determined by a zig-zag order, Asian-European Journal of Mathematics Vol. 15, No. 04, 2250208 (2022).

2. Dimitrova I., V. H. Fernandes, J. Koppitz, T. M Quinteiro. Ranks of Monoids of Endomorphisms of a Finite Undirected Path. Bulletin of the Malaysian Mathematical Sciences Society, 43, 2, Springer, 2020, ISSN:0126-6705, DOI:<https://doi.org/10.1007/s40840-019-00762-4>, 1623-1645

2.1 Laddawan Lohapan, Algebraic Properties of the transformation semigroups on N preserving a Zig-Zag Order, Theses for the degree of Doctor of Philosophie Khon Kaen University (Thailand) 2020, 62 p.

2.2 Rui Cu and Hailong Ho, Unicyclic Graphs Whose Completely Regular Endomorphisms form a Monoid, Mathematics 2020, 8(2), DOI: 10.3390/math8020240

3. Zhuchok A.V., Yu.V. Zhuchok, J. Koppitz. Free rectangular doppelsemigroups. Journal of Algebra and Its Applications, 19, 11, World Scientific Publishing Company, 2020, ISSN:0219-4988, DOI:doi.org/10.1142/S0219498820502059

3.1 Movsisyan, Y.M., Yolchyan, M.A., A Generalization of the Artin Theorem, Journal of Contemporary Mathematical Analysis 56(2), pp. 104-111.

3.2 Movsisyan, Yu.; Gevorgyan, A. Invertible algebras satisfying associative identities with functional variables. Asian-Eur. J. Math. vol. 14(1), Article 2050155, 2021

3.3 Yu. M. Movsisyan and M. A. Yolchyan, Cayley-type theorems for g-dimonoids Armenian Journal of Mathematics Volume 12, Number 3, 2020, 1–14

4. Fernandes V., J. Koppitz, T. Musunthia. The Rank of the Semigroup of All Order Preserving Transformations on a Finite Fence. Bulletin of the Malaysian Mathematical Sciences Society, 42, 5, Springer, 2019, ISSN:0126-6705, DOI:10.1007/s40840-017-0598-1, 2191-2211

4.1 Thanakorn Prinyasart, Ratana Srithus and Jirapa Nuntharakul, Various regularities for semigroups of transformations on a finite set determined by a zig-zag order, Asian-European Journal of Mathematics Vol. 15, No. 04, 2250208 (2022)

4.2 Srithus, Ratana; Chinram, Ronnason; Khongthat, Chompunutch Regularity in the semigroup of transformations preserving a zig-zag order. Bull. Malays. Math. Sci. Soc. (2) 43, No. 2, 1761-1773 (2020).

5. Phusanga D., J. Koppitz. Some varieties of algebraic systems of type $((n), (m))$. Asian-European Journal of Mathematics, 12, 1, World Scientific Publishing Company, 2019, ISSN:1793-5571, DOI:10.1142/S1793557119500050, 1950005-1-1950005-7

5.1 Kunama, P.; Leeratanavalee, S. All unit-regular elements of relational hypersubstitutions for algebraic systems. J. Algebra Appl. Math. 20, No. 1, 57-74 (2022).

5.2 Leeratanavalee, Sorasak; Daengsaen, Jukkrit Green's relations on regular elements of semigroup of relational hypersubstitutions for algebraic systems of type $((m), (n))$ Tamkang J. Math. 53, No. 2, 127-146 (2022).

5.3 Kumduang, Thodsaporn; Leeratanavalee, Sorasak Full formulas induced by full terms. Thai J. Math. 19, No. 4, 1637-1649 (2021).

5.4 Daengsaen, Jukkrit; Leeratanavalee, Sorasak Regularity of relational hypersubstitutions for algebraic systems. JP J. Algebra Number Theory Appl. 44, No. 2, 229-250 (2019).

6. Phusanga, D., Koppitz, J.. The semigroup of linear terms. Asian-European Journal of Mathematics, 12, 7, World Scientific Publishing Company, 2019, ISSN:1793-5571, 2050005.

6.1 Pongsakorn Kitpratyakul, Bundit Pibaljomme, On substructures of semigroups of inductive terms, AIMS Mathematics 7(6) (2022), 9835-9845

6.2 Kumduang, T., Leeratanavalee, S., Semigroups of Terms, Tree Languages, Menger Algebra of n-Ary Functions and Their Embedding Theorems, Symmetry, Vol. 13(4), paper no. 558, 2021

6.3 Kumduang, T., Wattanatripop, K., Changphas, T., Tree languages with fixed variables and their algebraic structures, *International Journal of Mathematics and Computer Science*, 16(4), 1683–1696, 2021

6.4 Nareupanat Lekkoksung and Somsak Lekkoksung, ON PARTIAL CLONES OF k -TERMS, *Discussiones Mathematicae - General Algebra and Applications* 41 (2021), 361–379

6.5 Sarawut Phuapong and Thodsaporn Kumduang, Menger algebras of terms induced by transformations with restricted range, *Quasigroups and Related Systems* 29 (2021), 255 – 268,

6.6 Wattanatripop, K., Changphas, T., The length of terms and their measurement, *International Journal of Mathematics and Computer Science* 16(4), pp. 1103-1116

6.7 Wattanatripop, K., Kumduang, T., Leeratanavalee, S., Changphas, T., Power Menger algebra of terms induced by order-decreasing transformations and superpositions, *International Journal of Mathematics and Computer Science*, 16(4), 1697–1707, 2021

7. Worawiset S., Koppitz, J., S. Chotchaisthit. The Class Of All Semigroups Related to Semihypergroups of Order 2. *Mathematica Slovaca*, 69, 2, De Gruyter, 2019, ISSN:1337-2211, DOI:10.1515/ms-2017-0229, 371-380

7.1 A. Rezaei, F. Smarandache , and S. Mirvakili, Applications of (Neutro/Anti)sophications to Semihypergroups, *Hindawi, Journal of Mathematics*, Volume 2021, Article ID 6649349, 7 pages

8. Zhuchok Y., J. Koppitz. Representations of ordered doppelsemigroups by binary relations. *Algebra and Discrete Mathematics*, 27, 1, Institute of Applied Mathematics And Mechanics of the National Academy of Sciences of Ukraine, 2019, ISSN:1726-3255, 144-154

8.1 Interassociativity and three-element doppelsemigroups, Volodymyr Gavrylkiv and Diana Rendziak, *Algebra and Discrete Mathematics*, Volume 28 (2019). Number 2, pp. 224–247

9. Anantayasethi, A., Koppitz, J.. Relations on a Semigroup of Sets of Transformations with Restricted Range. *Comptes rendus de l'Acad'emie bulgare des Sciences*, 70, 12, Proceedings of BAS, 2017, ISSN:1310–1331, 1621-1626.

9.1 Nurten Urlu Özalan, A. Sinan Çevik and Eylem Güzel Karpuz, A new semigroup obtained via known ones, *Asian-European Journal of Mathematics* Vol. 12, No. 06, 2040008 (2019)

10. Dimitrova, I, Koppitz, J, Lohapan, L. Generating Sets of Semigroups of Partial Transformations Preserving a Zig-Zag Order on N. International Journal of Pure and Applied Mathematics, 117, 2, Sofia : Academic Publications, 2017, ISSN:1311-8080, DOI:10.12732/ijpam.v117i2.4, 279-289.

10.1 Prinyasart, Ratana Srithus and Jirapa Nuntharakul, Various regularities for semigroups of transformations on a finite set determined by a zig-zag order, Asian-European Journal of Mathematics Vol. 15, No. 04, 2250208 (2022)

11. Dimitrova, I, Koppitz, J. On the semigroup of all partial fence-preserving injections on a finite set. Journal of Algebra and Its Applications, 18, 12, World Scientific Publishing Company, 2017, ISSN:0219-4988, DOI:10.1142/S0219498817502231, 1750223-1750236

11.1 Thanakorn Prinyasart, Ratana Srithus and Jirapa Nuntharakul, Various regularities for semigroups of transformations on a finite set determined by a zig-zag order, Asian-European Journal of Mathematics Vol. 15, No. 04, 2250208 (2022)

11.2 Laddawan Lohapan, Algebraic Properties of the transformation semigroups on N preserving a Zig-Zag Order, Theses for the degree of Doctor of Philosophie Khon Kaen University (Thailand) 2020, 62 p.

11.3 Srithus, Ratana; Chinram, Ronnason; Khongthat, Chompunutch Regularity in the semigroup of transformations preserving a zig-zag order. (English) Zbl 07179247 Bull. Malays. Math. Sci. Soc. (2) 43, No. 2, 1761-1773 (2020).

12. Ilinka Dimitrova, Jörg Koppitz. A note on generators of the endomorphism semigroup of an infinite countable chain. Journal of Algebra and Its Applications, 16, 2, World Scientific, 2017, ISSN:0219-4988, 1750031.

12.1 Li, De Biao; Zhang, Wen Ting; Luo, Yan Feng The monoid of orientation-preserving k-extensive transformations. Semigroup Forum 104, No. 2, 376-397 (2022).

13. Lohapan, L., Koppitz, J.. Regular Semigroups of Partial Transformations Preserving a Fence. Novi Sad Journal of Mathematics (NSJOM), 47, 2, Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad, Serbia, 2017, ISSN:450-5444, 77-91

13.1 Thanakorn Prinyasart, Ratana Srithus and Jirapa Nuntharatkul, Various regularities for semigroups of transformations on a finite set determined by a zig-zag order, Asian-European Journal of Mathematics Vol. 15, No. 04, 2250208 (2022).

13.2 Srithus, Ratana; Chinram, Ronnason; Khongthat, Chompunutch, Regularity in the semigroup of transformations preserving a zig-zag order. Bull. Malays. Math. Sci. Soc. 43 (2020), no. 2, 1761–1773.

14. Koppitz, J., Tinpun, K.. Relative rank of the finite full transformation semigroup with restricted range. Acta Mathematica Universitatis Comenianae, 85, 2, 2016, ISSN:02316986, 347-356

14.1 Konieczny, Janusz Semigroups of transformations whose restrictions belong to a given semigroup. Semigroup Forum 104, No. 1, 109-124 (2022).

14.2 Sommanee, Worachead The regular part of a semigroup of full transformations with restricted range: maximal inverse subsemigroups and maximal regular subsemigroups of its ideals. Int. J. Math. Math. Sci. 2018, Article ID 2154745, 9 p. (2018).

15. Anantayasethi, Ananya, Koppitz, Jörg. On a semigroup of sets of transformations with restricted range.. Thai J. Math., 14, 3, 2016, ISSN:1686-0209, 667-676

15.1 Chinram, Ronnason; Baupradist, Samruam Magnifying elements in a semigroup of transformations with restricted range. Missouri J. Math. Sci. 30, No. 1, 54-58 (2018).

16. Slavcho Shtrakov, Jörg Koppitz. Stable varieties of semigroups and groupoids. Algebra Universalis, 75, 1, Springer International Publishing, 2016, ISSN:0002-5240, DOI:10.1007/s00012-015-0359-7, 85-106

16.1 Khwancheewa Wattanatripop, Thodsaporn Kumduang, Sorasak Leeratanavalee, Thawat Changphas, Power Menger algebra of terms induced by order-decreasing transformations and superpositions, International Journal of Mathematics and Computer Science, 16(2021), no. 4, 1697–1707

16.2 Sarawut Phuapong and Thodsaporn Kumduang, Menger algebras of terms induced by transformations with restricted range, Quasigroups and Related Systems 29 (2021), 255 – 268,

16.3 Damyanov, Ivo Canalyzing minors of Boolean functions. Asian-Eur. J. Math. 13, No. 8, Article ID 2050160, 10 p. (2020)

17. Tinpun, K., J. Koppitz. Generating sets of infinite full transformation semigroups with restricted range. Acta Sci. Math., 82, 1-2, Springer, 2016, ISSN:0001-6969, 55-63

17.1 Konieczny, Janusz Semigroups of transformations whose restrictions belong to a given semigroup. Semigroup Forum 104, No. 1, 109-124 (2022).

18. Koppitz, Jörg, Musunthia, Tiwadee. Maximal subsemigroups containing a particular semigroup. Mathematica Slovaca, 64, 6, 2014, ISSN:01399918, 1369-1380

18.1 Donovan, C. R., Mitchell, J. D.; Wilson, W. A. Computing maximal subsemigroups of a finite semigroup. J. Algebra 505, 559-596 (2018). Donovan, C. R., Mitchell, J. D.; Wilson, W. A. Computing maximal subsemigroups of a finite semigroup. J. Algebra 505, 559-596 (2018).

19. Dimitrova, Ilinka, Koppitz, Jörg, Fernandes, Vitor. The maximal subsemigroups of semigroups of transformations preserving or reversing the orientation on a finite chain. Publicationes Mathematicae Debrecen, 81, 1-2, 2012, ISSN:0033 - 3883, 11-29

19.1 De Biao Li, Wen Ting Zhang and Yan Feng Luo, The monoid of all orientation-preserving and extensive full transformations on a finite chain, Journal of Algebra and Its Applications Vol. 21, No. 05, 2250105 (2022)

19.2 Zhao, Ping; Hu, Huabi Locally maximal regular subsemibands of the finite transformation semigroups $T(n,r)$. Semigroup Forum 98 (2019), no. 1, 172–183

19.3 Donovan, C. R.; Mitchell, J. D.; Wilson, W. A. Computing maximal subsemigroups of a finite semigroup. J. Algebra 505, 559-596 (2018)

19.4 East, James; Kumar, Jitender; Mitchell, James D.; Wilson, Wilf A. Maximal subsemigroups of finite transformation and diagram monoids. J. Algebra 504, 176-216 (2018).

20. Dimitrova, Ilinka, Koppitz, Jörg. On the monoid of all partial order-preserving extensive transformations. Comm. Algebra, 40, 5, 2012, 1821-1826

20.1 De Biao Li, Wen Ting Zhang and Yan Feng Luo, The monoid of all orientation-preserving and extensive full transformations on a finite chain, Journal of Algebra and Its Applications Vol. 21, No. 05, 2250105 (2022) De Biao Li, Wen Ting Zhang and Yan Feng Luo

20.2 Li, De Biao; Zhang, Wen Ting; Luo, Yan Feng The monoid of orientation-preserving k -extensive transformations. Semigroup Forum 104, No. 2, 376-397 (2022).

20.3 Zhao, Ping; Hu, Huabi; Qu, Yunyun The ideals of the monoid of all partial order-preserving extensive transformations. Semigroup Forum 104, No. 2, 494-508 (2022).

20.4 Zhao, Ping; Hu, Huabi Locally maximal regular subsemibands of the finite transformation semigroups $T(n,r)$. Semigroup Forum 98 (2019), no. 1, 172–183

21. Dimitrova, I., Koppitz, J. On the maximal regular subsemigroups of ideals of order-preserving or order-reversing transformations. Semigroup Forum, 82, 1, Springer, 2011, 172-180.

21.1 Ping Zhao, Huabi Hu, Locally maximal regular subsemibands of the finite transformation semigroups $T(n,r)$ Semigroup Forum 98(1), (2019), 172-183.

21.2 Sommanee, Worachead The regular part of a semigroup of full transformations with restricted range: maximal inverse subsemigroups and maximal regular subsemigroups of its ideals. Int. J. Math. Math. Sci. 2018, Article ID 2154745, 9 p. (2018).

21.3 Garba, Goje Uba; Ibrahim, Muhammad Jamilu; Imam, Abdussamad Tanko On certain semigroups of full contraction maps of a finite chain. Turkish J. Math. 41 (2017), no. 3, 500–507.

21.4 Zhao, Ping; Hu, Huabi; You, Taijie Maximal regular subsemibands of the finite order-preserving partial transformation semigroups $PO(n,r)$. Bull. Malays. Math. Sci. Soc. 40 (2017), no. 3, 1175–1186

21.5 Laradji, A.; Umar, A. Combinatorial results for semigroups of order-preserving or order-reversing subpermutations. J. Difference Equ. Appl. 21, No. 3, 269-283 (2015).

21.6 Gomes, Gracinda M. S.; Ruškuc, Nik John Macintosh Howie: work and legacy. (Semigroup Forum 89, No. 1, 2-19 (2014).

21.7 Zhao, Ping Maximal regular subsemibands of finite order-preserving transformation semigroups $K(n,r)$. Semigroup Forum 84, No. 1, 97-115 (2012).

22. Dimitrova, Ilinka, Koppitz, Jörg. Coregular semigroups of full transformations. Demonstratio Mathematica, 44, 4, 2011, ISSN:04201213, 23914661, 739-753

22.1 Suha Ahmed Wazzan, Ahmet Sinan Cevik, Firat Ates, Some algebraic structures on the generalization general products of monoids and semigroups, *Arabian Journal of Mathematics*, (2020) 9:727–737 (SJR: 0.3; Q3)

22.2 Suha Ahmed Wazzan, New Properties over a New Type of Wreath Products on Monoids, *APM*, Vol.9 No.8, 2019, 629-636

22.3 Tanyawong, Rossarin; Srithus, Ratana; Chinram, Ronnason Regular subsemigroups of the semigroups of transformations preserving a fence. *Asian-Eur. J. Math.* 9, No. 1, Article ID 1650003, 8 p. (2016)

23. S. Shtrakov, Jörg Koppitz. On finite functions with non-trivial arity gap. *Discuss. Math., Gen. Algebra Appl*, 30, 2, 2010, ISSN:2084-0373, 217-245

23.1 Couceiro, Miguel; Lehtonen, Erkki; Waldhauser, Tamás Parametrized arity gap. *Order* 30, No. 2, 557-572 (2013).

23.2 Couceiro, Miguel; Lehtonen, Erkki; Waldhauser, Tamás Decompositions of functions based on arity gap. *Discrete Math.* 312, No. 2, 238-247 (2012).

24. Jörg Koppitz. All Reg-solid varieties of commutative semigroups. *Semigroup Forum*, 78, Springer, 2009, 148-156

24.1 Khwancheewa Wattanatripop, Thodsaporn Kumduang, Sorasak Leeratanavalee, Thawhat Changphas, Power Menger algebra of terms induced by order-decreasing transformations and superpositions, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1697–1707.

24.2 Semigroups of Terms, Tree Languages, Menger Algebra of n-Ary Functions and Their Embedding Theorems, Thodsaporn Kumduang and Sorasak Leeratanavalee, *Symmetry* 2021, 13(4), 558; <https://doi.org/10.3390/sym13040558>.

24.3 Thodsaporn Kumduang, Khwancheewa Wattanatripop, and Thawhat Changphas, Tree languages with fixed variables and their algebraic structures, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1683–1696.

25. Dimitrova, Ilinka, Koppitz, Jörg. The maximal subsemigroups of the ideals of some semigroups of partial injections. *Discussiones Mathematicae - General Algebra and Applications*, 29, 2, 2009, ISSN:1509-9415, 153-167

25.1 Fernandes, Vítor H.; Santos, Paulo G. Endomorphisms of semigroups of order-preserving partial transformations. *Semigroup Forum* 99, No. 2, 333-344 (2019).

25.2 Donovan, C. R.; Mitchell, J. D.; Wilson, W. A. Computing maximal subsemigroups of a finite semigroup. *J. Algebra* 505, 559-596 (2018).

25.3 Laradji, A.; Umar, A. Combinatorial results for semigroups of order-preserving or order-reversing subpermutations. *J. Difference Equ. Appl.* 21, No. 3, 269-283 (2015)

26. Dimitrova, Ilinka, Koppitz, Jörg. The maximal subsemigroups of the ideals of the semigroup of all isotone partial injections. Proceedings of the 3rd international scientific conference, FMNS, South-West University, Blagoevgrad, Bulgaria, June 3–7, 2009. Volume 1. Blagoevgrad: South-West University “Neofit Rilsky”. Mathematics and Natural Sciences, 2009, 45-49

26.1 V.H. Fernandes, Paulo Guilherme Santos, Endomorphisms of semigroups of order-preserving partial transformations, *Semigroup Forum*, 99, (2019), 333–344.

26.2 Donovan, C. R.; Mitchell, J. D.; Wilson, W. A. Computing maximal subsemigroups of a finite semigroup. *J. Algebra* 505, 559-596 (2018).

26.3 East, James; Kumar, Jitender; Mitchell, James D.; Wilson, Wilf A. Maximal subsemigroups of finite transformation and diagram monoids *J. Algebra* 504, 176-216 (2018).

27. Denecke, K., Glubudom, P., Koppitz, J.. Power clones and non-deterministic hypersubstitutions. *Asian-European Journal of Mathematics*, 1, 2, 2008, ISSN:17935571, 177-188

27.1 Khwancheewa Wattanatripop, Thodsaporn Kumduang, Sorasak Leeratanavalee, Thawhat Changphas, Power Menger algebra of terms induced by order-decreasing transformations and superpositions, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1697–1707

27.2 Semigroups of Terms, Tree Languages, Menger Algebra of n-Ary Functions and Their Embedding Theorems, Thodsaporn Kumduang and Sorasak Leeratanavalee, *Symmetry* 2021, 13(4), 558; <https://doi.org/10.3390/sym13040558>, JCR: Q2, SRJ: Q3

27.3 Thodsaporn Kumduang, Khwancheewa Wattanatripop, and Thawhat Changphas, Tree languages with fixed variables and their algebraic structures, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1683–1696,

27.4 Kitpratyakul, Pongsakor, Pibajommee, Bundit, A generalized superposition of linear tree languages and products of linear tree languages. *Asian-Eur. J. Math.* 11, No. 4, Article ID 1850048, 21 p. (2018).

27.5 Joomwong, Jintana; Phusanga, Dara Deterministic and non-deterministic hypersubstitutions for algebraic systems. *Asian-Eur. J. Math.* 9, No. 2, Article ID 1650047, 13 p. (2016)

27.6 Gałaszka, Jan Algebraic structure of TCI-groupoids: classes, clones, constructions. *Algebra Colloq.* 17, Spec. Iss. 1, 803-814 (2010).

28. Dimitrova, Ilinka, Koppitz, Jörg. On the maximal subsemigroups of some transformation semigroups. *Asian-European Journal of Mathematics*, 1, 2, 2008, ISSN:17935571, 189-202

28.1 Bugay, Leyla A general approach for generating sets of certain subsemigroups of monotone maps. *Asian-Eur. J. Math.* 13, No. 7, Article ID 2050132, 12 p. (2020).

28.2 Zhao, Ping; Hu, Huabi Locally maximal regular subsemibands of the finite transformation semigroups $T(n,r)$. *Semigroup Forum* 98 (2019), no. 1, 172–183

28.3 Zhao, Ping; Hu, Huabi Locally maximal regular subsemibands of the finite transformation semigroups $T(n,r)$. *Semigroup Forum* 98 (2019), no. 1, 172–183.

28.4 Donovan, C. R.; Mitchell, J. D.; Wilson, W. A. Computing maximal subsemigroups of a finite semigroup. *J. Algebra* 505, 559-596 (2018).

28.5 East, James; Kumar, Jitender; Mitchell, James D.; Wilson, Wilf A. Maximal subsemigroups of finite transformation and diagram monoids *J. Algebra* 504, 176-216 (2018).

28.6 Zhao, Ping; Fernandes, Vítor H. The ranks of ideals in various transformation monoids. *Commun. Algebra* 43, No. 2, 674-692 (2015).

28.7 Zhao, Ping Maximal regular subsemibands of finite order-preserving transformation semigroups $K(n,r)$. *Semigroup Forum* 84, No. 1, 97-115 (2012).

29. Koppitz, J., Denecke, K.. M -solid varieties of algebras. 10, *Advances in Mathematics* (Springer), 2006, ISBN:978-0387-30804-3, 341

29.1 Pongsakorn Kitpratyakul and Bundit Pibajjommee, On substructures of semigroups of inductive terms, *AIMS Mathematics*, 7(6) (2022), 9835-9845

29.2 Busaman, Saofee, Unitary Menger algebra of C-quantifier free formulas of type $(\tau n, (2))$., *Asian-Eur. J. Math.* 14, No. 4, Article ID 2150050, 20 p. SJR: 0.244

29.3 Khwancheeva Wattanatirpop, Thodsaporn Kumduang, Sorasak Leeratanavalee and Thawat Changphas, Power Menger algebra of terms induced by order-decreasing

transformations and superposition, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1697–1707

29.4 Movsisyan, Yu. M.; Yolchyan, M. A., A generalization of the Artin theorem. *J. Contemp. Math. Anal., Armen. Acad. Sci.* 56, No. 2, 104-111 (2021); SJR: Q4, 0.25

29.5 Movsisyan, Yu.; Gevorgyan, A., Invertible algebras satisfying associative identities with functional variables., *Asian-Eur. J. Math.* 14, No. 1, Article ID 2050155, 16 p. SJR: 0.294

29.6 Jukkrit Daengsaen Sorasak, Leeratanavalee, REGULARITY OF RELATIONAL HYPERSUBSTITUTIONS FOR ALGEBRAIC SYSTEMS, *JP Journal of Algebra, Number Theory and Applications* 44(2):229-250

29.7 Nagornchat Chansuriya, Sorasak Leeratanavalee, On Ternary Monoid of All Hypersubstitutions of Type $\tau=(2)$, *Communications in Mathematics and Applications*, Vol 10, No 4 (2019), 659–671.

29.8 Hakobyan, T. A.; Movsisyan, Yu. M. Artin theorem for semigroups. *J. Algebra Appl.* 16 (2017), no. 2,

30. K. Denecke, J. Koppitz, SI Shtrakov. Multi-Hypersubstitutions and Colored Solid Varieties. *International Journal of Algebra and Computation*, 16, 4, World Scientific, 2006, ISSN:0218-1967, DOI:<https://doi.org/10.1142/S0218196706003189>, 797-815

30.1 Khwancheewa Wattanatripop, Thodsaporn Kumduang, Sorasak Leeratanavalee, Thawhat Changphas, Power Menger algebra of terms induced by order-decreasing transformations and superpositions, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1697–1707

30.2 Sarawut Phuapong and Thodsaporn Kumduang, Menger algebras of terms induced by transformations with restricted range, *Quasigroups and Related Systems* 29 (2021), 255 – 268,

30.3 Thodsaporn Kumduang, Khwancheewa Wattanatripop, and Thawhat Changphas, Tree languages with fixed variables and their algebraic structures, *International Journal of Mathematics and Computer Science*, 16(2021), no. 4, 1683–1696,

31. K. Denecke, J. Koppitz, S. Shtrakov. The depth of a hypersubstitution, *J. Automata, Languages and Combinatorics*. *Journal of Automata, Languages and Combinatorics*, 6, 3, 2001, 253-262

31.1 Kitpratyakul, Pongsakorn; Pibajjommee, Bundit Semigroups of an inductive composition of terms. *Asian-Eur. J. Math.* 15, No. 2, Article ID 2250038, 16 p. (2022).

31.2 Sarawut Phuapong and Thodsaporn Kumduang, Menger algebras of terms induced by transformations with restricted range, *Quasigroups and Related Systems* 29 (2021), 255 – 268.

32 Koppitz, J.. All 2-solid varieties of semigroups. *Semigroup Forum*, 60, 3, Springer, 2000, 405-423

32.1 Hakobyan, T. A.; Movsisyan, Yu. M. Artin theorem for semigroups. *J. Algebra Appl.* 16 (2017), no. 2, 1750034, 16 pp

33. K. Denecke, J. Koppitz. Finite monoid of hypersubstitutions of type $\tau = (2)$. *Semigroup Forum*, 56, Springer, 1998, 265-275

33.1 Nagornchat Chansuriya, Green's Relations on a Ternary Monoid $\text{Hyp}(2)$, *Science & Technology Asia - ThaiJO*, Vol.27 No.2 April - June 2022, 58-68

33.2 Nagornchat Chansuriya, Sorasak Leeratanavalee, On Ternary Monoid of All Hypersubstitutions of Type $\tau = (2)$, *Communications in Mathematics and Applications* Vol. 10, No. 4, pp. 659–671, 2019

33.3 Changphas, Thawat The order of hypersubstitutions of type $\tau=(3)$ *Algebra Colloq.* 13, No. 2, 307-313 (2006).

34. Denecke, K., Koppitz, J.. Hyperassociative varieties of semigroups. *Semigroup Forum*, 41, 1, Springer, 1994, 41-48.

34.1 Yu. M. Movsisyan, Hyperidentities and Related Concepts, II, *Armenian Journal of Mathematics*, Vol 10 , Nr. 4, 2018, 1-85.

34.2 Hakobyan, T. A.; Movsisyan, Yu. M. Artin theorem for semigroups. *J. Algebra Appl.* 16 (2017), no. 2, 1750034, 16 pp.

34.3 Movsisyan, Yu. M. Hyperidentities and related concepts. I. *Armen. J. Math.* 9, No. 2, 146-222 (2017).

34.4 Full Text: 10.1142/S0219498817500347 Movsisyan, Yu. M.; Hakobyan, T. A.
Associative nontrivial hyperidentities in semigroups. J. Contemp. Math. Anal., Armen. Acad. Sci. 46, No. 3, 121-130 (2011);

34.5 Movsisyan, Yu. M.; Hakobyan, T. A. Distributive hyperidentities in semigroups.. J. Contemp. Math. Anal., Armen. Acad. Sci. 46, No. 6, 293-298 (2011); translation from Izv. Nats. Akad. Nauk Armen., Mat. 46, No. 6, 31-40 (2011).

34.6 Polák, L. On hyperassociativity. Algebra Univers. 36, No. 3, 363-378 (1996).