

Vasile Ursu. List of Publications

I give my List of Publications in chronological order below.

Among them my theses

- V.I. Ursu, *Quasivarieties of commutative loops Lup Moufang*, PhD Thesis, Novosibirsk, 1992
- V.I. Ursu, *Algebraic theory of quasivarieties of commutative Moufang loop*, Habilitation Thesis, Novosibirsk, 2000

and two books

- V. Ursu, E. Ursu, *Calculul matricial și aplicații în rezolvarea sistemelor de ecuații liniare*, Editura „TEHNICA-INFO”, Chișinău-2014, ISBN 948-9975-63-359-8
- V. Ursu, E. Ursu, *Calculul vectorial și aplicații în geometria analitică*, Editura „TEHNICA-INFO”, Chișinău-2014, ISBN 948-9975-63-358-1.

Some of my results have been published in *Algebra i Logica*, *Sibirskii Matematicheskii Zhurnal* in Russian, but these journals are translated entirely into English by Plenum Publishing Corporation.

Refereed Journals

- V. I. Ursu. On quasi-identities of the commutative Moufang loop. –Sb. “ A study on the theory of binary and n-ary quasigroups and loops”, Kishinev: Știința, 1985, p.110-122.
- V. I. Ursu. On quasi-identities finitely generated of the commutative Moufang loop. – *Algebra and Logic*, 1991, 30,N6, s. 726-724.
- V. I. Ursu. On a criterion of independent axiomatizability of quasivarieties of Moufang Loops. – În the book ”International Conference of Group Theory”, Timișoara, 1992, p. 90-95.
- V. I. Ursu. On equations algorithmically solvable of commutative Moufang’s Loops. - *Revue Roumaine de mathématiques pures et appliquées*, XLI (1996), N7-8, p. 531-534.
- V. I. Ursu. On some lattices of quasivarieties of commutative Moufang’s Loops. - *Buletinul Academiei de Științe a Republicii Moldova – Matematica*, 1997, N1(23), p.106-112.
- V. I. Ursu. The variety of commutative Moufang’s loops has an independent basis of identities.- *Bull. Math. Soc. Sci. Math. Roum., Nouv. Sér.*,1997, 40, No.3-4, 193-202.
- V. I. Ursu. Quasivarieties of commutative Moufang loops without independent basis of quasi-identities. - *Buletinul Academiei de Științe a Republicii Moldova – Matematica*, 1998, N2(27), p.3-15.
- V. I. Ursu. On the lattice of a quasivarieties of commutative Moufang loops. – *Algebra and Logic*, 1998, T 37, N6, s.700-720.
- V. I. Ursu. Recursive inseparability of the set of identically true and finitely refutable formulas of some elementary variety theories.- *Siberian Mathematical Journal*, 2000, T 41, Nr3, s. 696-711.
- V. I. Ursu, On identities of nilpotent Moufang loops. - *Revue Roumaine de mathématiques pures et appliquées*, XLV, 2000, Nr 3, 537-548.

- V. I. Ursu, A.V. Kovalschi, Quasivarieties of Commutative Solvable Moufang Loops. – Buletinul Academiei de Științe a Republicii Moldova – Matematica, N2(54), 2007, p.118-124.
- V. I. Ursu, On the lattice of quasivarieties of commutative Moufang loops with nilpotency class ≤ 2 . I. - Revue Roumane de mathematiques pures et appliquees, LIV (2009), N1, p. 33-51.
- V. I. Ursu, On the lattice of quasivarieties of commutative Moufang loops with nilpotency class ≤ 2 . II. - Revue Roumane de mathematiques pures et appliquees, LIV (2009), N2, p. 161-169.
- V. I. Ursu, Product of quasivarieties of algebraic systems. - Buletinul Academiei de Științe a Republicii Moldova – Matematica, 2010. N2.
- V. I. Ursu, A.V. Kovalschi, Equation theory of the A-loop nilpotente. – Algebra and Logic (Novosibirsk), 2010, N4.
- V. I. Ursu, *On quasivarieties of nilpotent Moufang loops.I*, Commentationes mathematicas Universitatis Carolinae, 53,3(2012), 476-489, ISSN 1213-7243.
- V. I. Ursu, *On quasivarieties of nilpotent Moufang loops.I*, Commentationes mathematicas Universitatis Carolinae, 53,3(2012), 491-499, ISSN 1213-7243.
- V. I. Ursu, *Soluble finitely separable Moufang loops*, Bulletin of the Transilvania University of Brașov, Series III: Mathematics, Informatics, Physics, Vol 5(54) 2012, 275-285 (Special Issue: Proceedings of the Seventh Congress of Romanian Mathematicians), published by Transilvania University Press, Brașov and Publishing House of the Romanian Academy), ISSN 2065-2151, Brașov, România.
- Vasile I. Ursu, A. Kovalschi, *Quasiniidentities of finitely generated nilpotent A-loop*, Revue Roumane de mathematiques pures et appliquees, LX (2015), N1,45-58.
- V. I. Ursu, *On quasiidentities of the finit algebraic system*, Revue Roumane de mathematiques pures et appliquees, 2015, Tome LXI (2016), №1, 149-155.
- V. I. Ursu, *About one correspondence between commutative rings and Jordan loops, I* (submitted).
- V. I. Ursu, *About one correspondence between commutative rings and Jordan loops, II* (submitted).
- V. I. Ursu, *Undecidability of the elementary theory of finite commutative loops* (submitted).

Conference and Workshop abstracts

- V.I. Ursu, *Product of Classes of Algebraic Systems*, The 6th Congress Romanian Mathematicians, June 28 – July 4, 2009, p.170-171, Bucharest, Romania.
- V.I. Ursu, *An observation of the derivation of the function in Euclidean space*, Conferința națională *Didactica Matematicii*, 19 Aprilie 2008, Cluj Napoca.
- V.I.Ursu, *About the abstract ordered loops*, The 17th Conference on Applied and Industrial Mathematics, Constanza, September 17-20,2009, Editura Academiei Navale „Mircea cel Bătrân”,2009,p. 88-89.
- V. I. Ursu, A.V. Covalski, *The equation theory of the A-loop nilpotente*, International Conference „Maltsev Meeting 2009”, Institute of Mathematics of the Siberian Section of the Russian Academy, Novosibirsk, 24-28 August 2009.
- V. I. Ursu, *About the orderly loops*, Conferința Internațională „Maltsev Meeting 2009”, Institutul de matematică al Secției Siberiene a Academiei Ruse,or. Novosibirsk,24-28 august 2009.

- V.I.Ursu, Moufang theory generalized for A-loops, Scientific Conference „Actual problems of mathematics and informatics”, Tiraspol State University, Chisinau, September 24-25, 2010, p. 151-153.
- V.I.Ursu, Axiomatization of some classes of loops and the local Theorem for them, The 18th Conference on Applied and Industrial Mathematics, Iasi, October 14-17, 2010, Editura Universitatii „A.I.Cuza” din Iasi, 2010, p. 96.
- V. Ursu. *Soluble finitely separable Moufang loops*. The 7th Congress Romanian Mathematicians, June 29 – July 5, 2011, Braşov, Romania.
- V. Ursu. *Quasiidentities of finitely generated nilpotent Moufang loop*. International Conference: LOOP’S, July 25-27, 2011, Trest, Czech Republic.
- V. Ursu. *On some properties of quasivarieties of loops*. International Conference: Mathematics and Information Technologies; Research and Education (MITRE-2011), August 22-25, 2011, Chişinău, R. Moldova.
- V. Ursu, E. Ursu. *Aplicaţii ale produsului vectorial şi produsului mixt în spaţiul euclidian*. International Conference: Mathematics and Information Technologies; Research and Education (MITRE-2011), August 22-25, 2011, Chişinău, R. Moldova.
- V. Ursu. *Free orderable A-loops*. International Conference: The 19th Edition the Annual Conference on Applied and Industrial Mathematics -- CAIM 2011, September 22-25, 2011, Iaşi, Romania.
- V.I. Ursu, *On A-Loupe homomorphisms on finite loops* Book of abstracts of the International algebraic Conference in Ukraine, July 5-12, 2011, Lugansc, Taras Shevchenko National University Ukraine, UDC- 519(063).
- V.I. Ursu, *Classes of Kurosh-Chernikov loops and local theorem for them*, Book of abstracts of the International Conference on Algebra dedicated to 100th anniversary S.M. Chernicov, August 20-26, 2012, Kyiv, Ukraine.
- V.I. Ursu, *A note on topological solvable Moufang loops*, The 20th Conference on Applied and Industrial Mathematics dedicated to academician Mitrofan M. Ciobanu, Communications, August 22-25, 2012, Chişinău.
- V.I. Ursu, *Contribuţii în predarea teoriei derivabilităţii funcţiilor între spaţii euclidiene*, The 20th Conference on Applied and Industrial Mathematics dedicated to academician Mitrofan M. Ciobanu, Communications in education, August 22-25, 2012, Chişinău.
- V.I. Ursu, *About nilpotent Moufang loops*, International Conference on dedicated to the 120th anniversary of Stefan Banach, Abstract of Reports, September 17-21, 2012. Lviv, Ukraine.
- V. Ursu, *About nilpotent Moufang loops*, International Conference on dedicated to the 120th anniversary of Stefan Banach, Abstract of Reports, September 17-21, 2012. Lviv, Ukraine.
- V. Ursu. *Algebraic Characteristic of Quasivarieties of loops*. International Conference: Mathematics and Information Technologies: Research and Education (MITRE-2013), August 18-22, 2013, Abstract, p.91, Chişinău, R. Moldova.
- V. Ursu, A. Covalschi, *Quasiidentities of nilpotent free A-loop and nilpotent free Moufang loop*, 9th International Algebraic Conference in Ukraine, Book of Abstracts (p.202), July 8-13, 2013, Lviv, Ukraine.
- V. Ursu. *On the lattice of quasivarieties of quasigroups*. International Conference: The 21th Edition the Annual Conference on Applied and Industrial Mathematics --- CAIM- 2013, September 22-25, 2013, Iaşi, Romania.
- V. Ursu, E. Ursu. *Un concept asupra derivabilităţii funcţiilor de*

variabilă hipercomplexă. International Conference: Mathematics and Information Technologies; Research and Education (MITRE-2013), August 18-22, 2013, p.144, Chişinău, R. Moldova.

- V. Ursu, A. Covalschi, *Teoria cvasiecuatională a A-buclei nilpotente*. Şedinţa specială a seminarului V.D. Belousov. Institutul de Matematică şi Informatică al Academiei de Ştiinţe a Moldovei, 22 februarie 2013, p. 1- 12 (publicaţie electronică, <http://www.math.mat.md>)
- V. Ursu, *On Quasi-Ecuational Teory of finite Algebraic system*, The 22nd Conference on Applied and Industrial Mathematics --- CAIM 2014, September 18-21, 2014, Bacău, România.
- V. Ursu, *About ordonable free nilpotent A-loops (Moufang loops)*, Conferinţa naţională a societăţii de ştiinţe matematice din România, 24-26 octombrie, Iaşi, România.
- V. Ursu, E. Ursu, *Subbucle consolidate şi relaţii induse de ele I*, Conferinţa tehnic-ştiinţifică a colaboratorilor, doctoranzilor şi studenţilor UTM, 15-23 noiembrie 2013, Chişinău, editura "Tehnica-UTM" (2014), p.234-241.
- V. Ursu, E. Ursu, *Subbucle consolidate şi relaţii induse de ele I*, Conferinţa tehnic-ştiinţifică a colaboratorilor, doctoranzilor şi studenţilor UTM, 15-23 noiembrie 2013, Chişinău, editura "Tehnica-UTM" (2014), p.242-245.
- V. I. Ursu, International Conference *Mal'tsev Meeting* dedicated to 75-th anniversary Yuri L. Ershov (Sobolev Institute of Mathematics, Novosibirsk State University, May 3-7, 2014), Collection of Abstracts, p.201.
- V. I. Ursu, *On Quasi-Ecuational Theory of Finite Algebraic Systems*. Conference on Applied and Industrial Mathematics --- CAIM 2014 (September 18-21, 2014, Bacău, România.), Book of Abstracts, p. 59-60.
- A.Covalschi şi V. Ursu, *Subbucle caracteristice şi subbucle pe deplin invariante I*. Conferinţa Tehnico-Ştiinţifică a Colaboratorilor, Doctoranzilor şi Studenţilor dedicată celei de-a 50-a Aniversare a UTM (20-21 octombrie 2015), Vol. III, p.130-134, ISBN 978-9975-0078-45-249-6
- V. I. Ursu, *Commutators theory in language congruences for modular algebraic system*, The Eighth Congress of Romanian Mathematicians (26 June – July 1, 2015, Iaşi), Programe and Abstract Book, p.52.
- V. I. Ursu, *Some remarks about A-loops*. The International Mathematical Conference on Quasigroups and Loops (28 June – 04 July 2015 Ohrid, Macedonia), Book of extended abstracts, p. 110.
- V. I. Ursu, *About congruence and commutators modular model*. The 22rd Conference on Applied and Industrial Mathematics --- CAIM 2015 (September 17-20, 2015, Suceava, România.), Book of Abstracts, p. 61.
- V. I. Ursu, *On some class of ordered loop*. International Conference: Mathematics and Information Technologies; Research and Education (MITRE-2015, August 22-25, 2015, Chişinău, R. Moldova), Abstracts, p. 85.
- V.I. Ursu, *On partially ordered nilpotent A-loops*. The 24rd Conference on Applied and Industrial Mathematics --- CAIM 2016 (September 15-18, 2016, Craiova, România.), Book of Abstracts, p. 71-72.
- V. I. Ursu, *About free ordonable nilpotent A-loop*. International Conference: Mathematics and Information Technologies; Research and Education (MITRE-2016, June 23-26, 2016, Chişinău, R. Moldova), Abstracts, p. 68-69.

- V. I. Ursu, *A correspondence between the commutative rings and Jordan loops*. International Conference *Mal'tsev Meeting*. (Sobolev Institute of Mathematics, Novosibirsk State University, November 21-25, 2016), Collection of Abstracts, p. 201.
- V. Ursu, *On remarks of about some classes of generalized solvable loops*. The 25th Conference on Applied and Industrial Mathematics --- CAIM 2017 (September 14-17, 2017, Iași, România.), Book of Abstracts, p. 94.
- V.I. Ursu, *Quasi-identities of nilpotent Jordan loops*, 11th International Conference in Ukraine dedicated to the 75th anniversary of V.V. Kirichenko, July 3-7, 2017, Taras Shevchenko National University of Kyiv, Ukraine, Abstracts, p. 152,
- V.I. Ursu, *Undecidability of the elementary theory of finite commutative loops*. Four Mile Hills on Nonassociative Mathematics, July 30-August 5, 2017, University of Denver, Colorado, USA, Abstracts of Talks, p. 16-17.
- V.I. Ursu, *An observation on commutative Moufang loops with minimal condition*. International Conference on Mathematics, Informatics and Information Technologies dedicated to the illustrious scientist Valentin Belousov, April 19-21, 2018, Alecu Russo State University, Balti, R. Moldova, Communications, p. 98-99.

IMAR Preprints

- V.I. Ursu, *Axiomatization and local theorem for certain classes of loops*, Preprint nr. 8/2014 series of the Institute of Mathematics of the Romanian Academy, ISSN 0250 3638.
- V.I. Ursu. *On the pre-ordering of automorphic loops and Moufang loops*, Preprint nr. 2/2017 series of the Institutes of Mathematics of the Romanian Academy (ISSN 0250 3638).
- V.I. Ursu. *Undecidability of the elementary theory of finite commutative loops*, Preprint nr. 1/2018 series of the Institutes of Mathematics of the Romanian Academy (ISSN 0250 3638).