ADCS development for student CubeSat satellites - TalTech case study
Rassõlkin, Anton; **Vaimann, Toomas**; **Org, Peeter**; **Leibak, Alar**; **Gordon, Rauno**; **Priidel, Eiko** Proceedings of the Estonian Academy of Sciences 2021 / p. 268-285 : ill https://doi.org/10.3176/proc.2021.3.06 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An explicit construction of initial perfect quadratic forms over some families of totally real number fields
Leibak, Alar Algorithmic number theory : 8th International Symposium : ANTS-VIII " Banff, Canada, May 17-22, 2008 : proceedings 2008 / p. 240-252

Application of volume bounding box decomposition for surgeon's hand gestures recognition
Nõmm, Sven; **Leibak, Alar**; **Vain, Jüri**; Miyawaki, Fujio IECON 2010 : 36th Annual Conference on IEEE Industrial Electronics Society : Glendale, Arizona, USA, 07 - 10 November, 2010 : proceedings 2010 / p. 1076-1080 : ill https://ieeexplore.ieee.org/document/5675518

Application of volume bounding box decomposition for surgeon's hand gestures recognition
Nõmm, Sven; **Leibak, Alar**; **Vain, Jüri**; Miyawaki, Fujio Abstracts IECON 2010 - ICELIE 2010 : 36th Annual Conference of the IEEE Industrial Electronics Society, 4th International Conference on E-Learning in Industrial Electronics, IES Industry Forum 2010 : Arizona, USA, 7-10 November 2010 2010 / p. 102 https://ieeexplore.ieee.org/document/5675518

Automatic linguistic inversion of a fuzzy model for fed-batch fermentation control
Riid, Andri; **Leibak, Alar**; **Rüstern, Ennu** Proc. 2006 International Conference on Intelligent Engineering Systems : INES, London, 26-28 June 2006 2006 / p. 129-134
https://www.researchgate.net/publication/224646300_Automatic_Linguistic_Inversion_of_a_Fuzzy_Model_for_Fed-Batch_Fermentation_Control

Degree of Dieudonne determinant defines the order of nonlinear system
Kotta, Ülle; **Belikov, Juri**; Halas, Miroslav; **Leibak, Alar** International journal of control 2019 / p. 518-527
https://doi.org/10.1080/00207179.2017.1361042 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Evalution method of coating thickness of coating thickness standard
Laaneots, Rein; **Riim, Jürgen**; **Leibak, Alar** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [I] 2010 / p. 245-250

Farey jadad ja Minkowski ?-funktsioon
Leibak, Alar Aastaraamat 2017 / Eesti Matemaatika Selts 2018 / lk. 31-37 https://www.ester.ee/record=b1226018*est

5th Junior European Meeting on Control & Information Technology : September 20-22, 2006, Tallinn, Estonia : book of abstracts
2006 http://www.ester.ee/record=b2227133*est

Kompleksmuutuja funktsioonid : õpik kõrgkoolidele
Leibak, Alar 2015 https://www.ester.ee/record=b4493592*est

„Kuidas nad on teinud ära riigieksami?" Aukliku taseme tagamaad
Raudla, Heiki Õpetajate Leht 2025 / lk. 10-11 „Kuidas nad on teinud ära riigieksami?" Aukliku taseme tagamaad

Michailichenko group of matrices over skew-fields
Leibak, Alar Математицки весник = Matematički Vesnik 2019 / p. 155–161 http://www.vesnik.math.rs/vol/mv191210.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Non-commutative determinants in nonlinear control theory : preliminary ideas
Kotta, Ülle; **Leibak, Alar**; Halas, Miroslav ICARCV 2008 : 10th International Conference on Control, Automation, Robotics & Vision : 17-20 December 2008, Hanoi, Vietnam 2008 / p. 815-820 https://ieeexplore.ieee.org/document/4795622

On a hierarchical approach to the generation of pareto points for complex systems
Leibak, Alar; **Šeletski, Anna**; **Vaarmann, Otu** MCDA-75 : 75th Meeting of the European Working Group on Multiple Criteria Decision Aiding : Tarragona, Catalonia, Spain, April 12th-14th, 2012 : book of abstracts 2012 / p. 43

On a multi-level approach to the generation of Pareto points for complex systems
Leibak, Alar; **Šeletski, Anna**; **Vaarmann, Otu** Параллельные Вычисления и Задачи Управления - PACO'2012 : труды шестой Международной Конференции, Москва, 24-26 октября 2012 г.; Том 2 2012 / p. 11-20

On additive generalisation of Voronoi's theory of perfect forms over algebraic number fields
Leibak, Alar 2006 https://www.ester.ee/record=b2208763*est

On additive generalization of Voronoi's theory to algebraic number fields

Leibak, Alar Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2005 / 4, p. 195-211

On decomposition-coordination methods for complex multi-objective optimization problems
Leibak, Alar; **Šeletski, Anna**; **Vaarmann, Otu** 17th International conference on "Mathematical Modelling and Analysis" : June 6-9, 2012, Tallinn, Estonia : abstracts 2012 / p. 133

On decomposition-coordination methods for multi-objective optimization
Leibak, Alar; **Vaarmann, Otu** M.C.D.A.'71' Meeting of the Euro. Working Group 'Multiple Criteria Decision Aiding' : Turin, 25-27.III.2010 2010 / [12] p

On determinability of idempotent medial commutative quasigroups by their endomorphism semigroups
Leibak, Alar; **Puusemp, Peeter** Proceedings of the Estonian Academy of Sciences 2011 / 2, p. 81-87

On determinability of some classes of medial quasigroups by their endomorphisms
Leibak, Alar; **Puusemp, Peeter** 3Quantum : Algebra Geometry Information (QQQ Conference 2012) : 10-13 July 2012, Tallinn, Estonia : dedicated to memory of Professor Jean-Louis Loday (1936-2012) 2014 / p. 1-9 https://doi.org/10.1088/1742-6596/532/1/012014 Conference proceedings at Scopus Article at Scopus Article at WOS

On endomorphisms of groups of order 36
Leibak, Alar; **Puusemp, Peeter** Proceedings of the Estonian Academy of Sciences 2016 / p. 237-254
https://doi.org/10.3176/proc.2016.3.06 https://artiklid.elnet.ee/record=b2798395*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On endomorphisms of groups of orders 37-47
Leibak, Alar; **Puusemp, Peeter** Proceedings of the Estonian Academy of Sciences 2017 / p. 137-150
https://doi.org/10.3176/proc.2017.2.04 http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2820926*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On Pisot units and the fundamental domain of Galois extensions of Q
Porter, Christian; **Leibak, Alar** Journal of algebra 2025 / p. 288-306 https://doi.org/10.1016/j.jalgebra.2024.07.041

On the number of factorizations of t mod N and the probability distribution of Diffie-Hellman secret keys for many users
Leibak, Alar Advances in mathematics of communications 2023 / p. 920-927 https://doi.org/10.3934/amc.2021029 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Some decomposition - coordination methods for multi-objective optimization
Leibak, Alar; **Vaarmann, Otu** 23rd European Conference on Operational Research : July 5-8, 2009, Bonn, Universität Siegen : book of abstracts 2009 / p. 263

Some remarks of the lower bound of the additive Hermite constant for number fields
Leibak, Alar International Conference on Operational Research : Simulation and Optimisation in Business and Industry : May 17-20, 2006, Tallinn, Estonia 2006 / p. 105-108

Some remarks on lower bound of the additive Hermite constant for number fields
Leibak, Alar 5th International Conference on Optimal Research "Simulation and Optimization in Business and Industry" : May 17-20, 2006, Tallinn, Estonia : programme and abstracts 2006 / p. 47

Some results on reduction of unary positive quadratic forms over totally real cyclic number fields
Leibak, Alar Analytic and Probabilistic Methods in Number Theory : proceedings of the Third Internatioanl Conference in Honour of J. Kubilius, Palanga, Lithuania, 24-28 September 2001 2002 / p. 162-168

Subdividing the positive cone (R+)γ by Voronoi perfect polyhedras and totally positive algebraic integers
Leibak, Alar 17th International conference on "Mathematical Modelling and Analysis" : June 6-9, 2012, Tallinn, Estonia : abstracts 2012 / p. 78

The coating thickness and its definition
Abiline, Indrek; **Laaneots, Rein**; **Leibak, Alar**; **Riim, Jürgen** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [1] 2008 / p. 13-18 : ill
http://innomet.ttu.ee/daaam08/online/Design%20Engineering/Abiline.pdf

The complete enumeration of binary perfect forms over the algebraic number field Q([ruutjuur]6)
Leibak, Alar Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2005 / 4, p. 212-234

5th International Conference on Optimal [i.e. Operational] Research "Simulation and Optimization in Business and Industry" : May 17-20, 2006, Tallinn, Estonia : programme and abstracts
2006 http://www.ester.ee/record=b2146103*est

Towards hierarchical approach for large nonlinear multi-objective optimization problems
Leibak, Alar; **Vaarmann, Otu** 14th International Conference "Mathematical Modelling and Analysis" : May 27-30, 2009, Daugavpils, Latvia : abstracts 2009 / p. 46 https://de.du.lv/mma2009/abstracts/VaarO.pdf

Transfer matrix and its Jacobson form for nonlinear systems on time scales : mathematica implementation
Belikov, Juri; **Kotta, Ülle**; **Leibak, Alar** Full Papers : 18th International Conference on Process Control '11 : June 14-17, 2011, Tatransk Lomnica, Slovakia 2011 / p. 141-146

Transformation of the transfer matrix of the nonlinear system into the Jacobson form
Belikov, Juri; **Kotta, Ülle**; **Leibak, Alar** Proceedings of the 2010 IRAST International Congress on Computer Applications and Computational Science (CACS 2010) : 4-6 December 2010, Singapore 2010 / p. 495-498

TTÜ aastal 2020 : töögrupi vahearuanne
Ernits, Juhan-Peep; **Goi, Anna**; **Jervan, Gert**; **Leibak, Alar**; **Randma-Liiv, Tiina**; **Otto, Tauno**; **Rosin, Argo**; **Sarmiento Guerin, Maria Cecilia** Mente et Manu 2009 / 16. veebr., lk. 4 : fot https://www.ester.ee/record=b1242496*est

Unit reducible fields and perfect unary forms
Leibak, Alar; Porter, Christian; Ling, Cong Journal de Theorie des Nombres de Bordeaux 2023 / p. 867-895
https://doi.org/10.5802/jtnb.1267 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ühissalastuse skeemid
Buldas, Ahto; **Leibak, Alar** Arvutimaailm 1997 / 2, lk. 30-31