

Acyclic attribute evaluation in a dependently typed setting

Firsov, Denis; Uustalu, Tarmo Proceedings of the 27th Nordic Workshop on Programming Theory (NWPT 2015) 2016 / p. 124-126
: ill <http://icetcs.ru.is/nwpt2015/NWPT15Proceedings.pdf>

Additive cellular automata graded-monadically

Capobianco, Silvio; Uustalu, Tarmo PPDP '23 : proceedings of the 25th International Symposium on Principles and Practice of Declarative Programming 2023 / art. 13, 9 p <https://doi.org/10.1145/3610612>

Advanced Functional Programming : 5th International School, AFP 2004 : Tartu, Estonia, August 14-21, 2004 : revised lectures

Vene, Varmo; Uustalu, Tarmo 2005 https://www.ester.ee/record=b2083926*est

Algebraic and coalgebraic perspectives on interaction laws

Uustalu, Tarmo; Voorneveld, Niels Programming Languages and Systems : 18th Asian Symposium, APLAS 2020, Fukuoka, Japan, November 30 – December 2, 2020 : proceedings 2020 / p. 186-205 https://doi.org/10.1007/978-3-030-64437-6_10 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Alustab arvutiteaduse tippkeskus

Uustalu, Tarmo Postimees 2008 / 19. aug., Koolituse Extra, lk. 10 <https://tarbija.postimees.ee/1815409/alustab-arvutiteaduse-tippkeskus>

Arvutamine on loodusteadus : [intervjuu Tarmo Uustaluga]

Uustalu, Tarmo Teadusmõtte Küberneetika Instituudis 2010 / lk. 86-90 : portr

Arvutamine on loodusteadus : vastab Tarmo Uustalu

Uustalu, Tarmo Horisont 2006 / lk. 15-17 : portr https://artiklid.elnet.ee/record=b2039570*est

Arvutiteadlaste koolid ja seminarid

Uustalu, Tarmo Tallinna Tehnikaülikooli aastaraamat 2003 2004 / lk. 302-305

Arvutiteadus ja infotehnoloogia Eestis

Uustalu, Tarmo Eesti aastaraamat 2002-2003 2002 / lk. 255-259

Arvutiteadus uurib ka loodust : [kommenteerib TTÜ teadur Tarmo Uustalu]

Uustalu, Tarmo; Laurisaar, Riho Eesti Päevaleht 2009 / 24. sept., lk. 24 <https://epl.delfi.ee/artikkel/51178534/arvutiteadus-uurib-ka-loodust>

Arvutiteadus, suusad ja saun : [3.-5. veebr. Arulas toimunud arvutiteaduse teooriapäevadest, osalejad TTÜ Küberneetika Instituudist, TTÜst, TÜst, mujalt Eestist ja Leicesteri Ülikoolist]

Uustalu, Tarmo Mente et Manu 2003 / 11. veebr., lk. 1, 2 : fot https://www.ester.ee/record=b1242496*est

Arvutiteaduse teooria Rõuges : [10. Eesti arvutiteaduse teooriapäevadel oli esindatud ka TTÜ]

Uustalu, Tarmo A & A 2007 / 2, lk. 50-51 : fot

Arvutiteaduse teooriat Rõuges : [10. Eesti arvutiteaduse teooriapäevadest]

Uustalu, Tarmo Mente et Manu 2007 / 21. veebr., lk. 2 : fot https://www.ester.ee/record=b1242496*est

Arvutiteaduse tippkeskus

Uustalu, Tarmo Eesti Päevaleht 2012 / Eesti teaduse tippkeskused, lk. 4

Arvutiteaduse tippkeskus panustab väliskoostöösse : [intervjuu keskuse juhi Tarmo Uustaluga]

Uustalu, Tarmo Arvutimaailm 2008 / 9, lk. 12 : portr

Arvutiteaduse tippkeskuse EXCS avalöök : [TTÜ 90. aastapäeva raames 18.-19. sept. 2008 toimuvast seminarist]

Uustalu, Tarmo Mente et Manu 2008 / 12. sept., lk. 2 https://www.ester.ee/record=b1242496*est

Arvutiteaduslik ekstsellentsus

Uustalu, Tarmo Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 15-18

Bidirectional data-flow analyses compared to relational through Galois connections

McDermott, Dylan; Morita, Yasuaki; Uustalu, Tarmo NWPT 2023 - 34th Nordic Workshop on Programming Theory : Wed 22 - Thu 23 November 2023 Västerås 2023 <https://mdu.drive.sunet.se/index.php/s/pGqDeMWakx4dtmX>

Boris Tamm ja Eesti infotehnoloogia tulevikusuunad : [kõne mälestuskonverentsil "Boris Tamm haridus- ja teadusjuhina" 22. juunil 2005]

Build, augment and destroy, universally

Ghani, Neil; **Uustalu, Tarmo**; Vene, Varmo Programming Languages and Systems : Second Asian Symposium : APLAS 2004 : Taipei, Taiwan, November 4-6, 2004 : proceedings 2004 / p. 327-347
https://www.researchgate.net/publication/221323363_Build_Augment_and_Destroy_Universally

Calling paradigms and the box calculus

Santo, Jose Espirito; Pinto, Luis; **Uustalu, Tarmo** EUTYPES-TYPES 2020 : Abstracts 2020 / 2 p
<https://types2020.di.unito.it/abstracts/BookOfAbstractsTYPES2020.pdf>

Canonical gradings of monads

Breuvart, Flavien; McDermott, Dylan; **Uustalu, Tarmo** Proceedings of the 5th Annual International Applied Category Theory Conference (ACT 2022), Glasgow, United Kingdom, 18-22 July 2022 2023 / p. 1-21 <https://doi.org/10.4204/eptcs.380.1>
https://msp.cis.strath.ac.uk/act2022/papers/ACT2022_paper_4328.pdf [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Certification of context-free grammar algorithms = Kontekstivabade grammatikate algoritmitseerimine

Firsov, Denis 2016 <http://digi.lib.ttu.ee/i/?6213>

Certified CYK parsing of context-free languages

Firsov, Denis; Uustalu, Tarmo Journal of logical and algebraic methods in programming 2014 / p. 459-468

Certified Foata normalization for generalized traces

Maarand, Hendrik; Uustalu, Tarmo NASA Formal Methods Symposium : 10th International Symposium, NFM 2018, Newport News, VA, USA, April 17-19, 2018 : proceedings 2018 / p. 299-314 https://doi.org/10.1007/978-3-319-77935-5_21 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Certified normalization of generalized traces

Maarand, Hendrik; Uustalu, Tarmo Innovations in Systems and Software Engineering 2019 / p. 253-265
<https://doi.org/10.1007/s11334-019-00347-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Certified parsing of regular languages

Firsov, Denis; Uustalu, Tarmo Certified Programs and Proofs : Third International Conference, CPP 2013, Melbourne, VIC, Australia, December 11-13, 2013, Proceedings 2013 / p. 98 - 113 https://doi.org/10.1007/978-3-319-03545-1_7 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Coalgebraic update lenses

Ahman, Danel; **Uustalu, Tarmo** Electronic notes in theoretical computer science 2014 / p. 25-48 : ill
<https://doi.org/10.1016/j.entcs.2014.10.003> [Journal metrics at Scopus](#) [Article at Scopus](#)

A coalgebraic view of bar recursion and bar induction

Capretta, Venzio; **Uustalu, Tarmo** Foundations of Software Science and Computation Structures : 19th International Conference, FOSSACS 2016, held as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2016, Eindhoven, The Netherlands, April 2-8, 2016 : proceedings 2016 / p. 91-106 https://doi.org/10.1007/978-3-662-49630-5_6 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Codensity lifting of monads and its dual

Katsumata, Shin-ya; Sato, Tetsuya; **Uustalu, Tarmo** Logical methods in computer science 2018 / p. 1-31
[https://doi.org/10.23638/LMCS-14\(4:6\)2018](https://doi.org/10.23638/LMCS-14(4:6)2018) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Coherence for skew-monoidal categories

Uustalu, Tarmo Proceedings of the 5th Workshop on Mathematically Structured Functional Programming (MSFP 2014) : Grenoble, France, 12 April 2014 2014 / p. 68-77 <https://doi.org/10.4204/EPTCS.153.5> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Coinductive big-step semantics for concurrency

Uustalu, Tarmo Proceedings 5th Workshop on : Programming Language Approaches to Concurrency and Communication-cEntric Software, Rome, Italy, 23rd March 2013 2013 / p. 63-78 <https://doi.org/10.4204/EPTCS.137.6> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Combining effects and coefficients via grading

Gaboardi, Marco; Katsumata, Shin-ya; Orchard, Dominic; Breuvart, Flavien; **Uustalu, Tarmo** ICFP 2016 : proceedings of the 21st ACM SIGPLAN International Conference on Functional Programming : Nara, Japan, September 18-24, 2016 2016 / p. 476-489
<https://doi.org/10.1145/2951913.2951939>

Comonadic functional attribute evaluation

Uustalu, Tarmo; Vene, Varmo Sixth Symposium on Trends in Functional Programming : TFP 2005 : Tallinn, Estonia, 23-24 September 2005 : proceedings 2005 / p. 33-43 https://artiklid.elnet.ee/record=b1019505*est

Comonadic functional attribute evaluation

Uustalu, Tarmo; Vene, Varmo Trends in functional programming. Volume 6 2007 / p. 145-162

Concurrent monads for shared state

Rivas, Exequiel; Uustalu, Tarmo Proceedings of the 26th International Symposium on Principles and Practice of Declarative Programming 2024 / art. 17 <https://doi.org/10.1145/3678232.3678249> [Article at Scopus](#) [Article at WOS](#)

Consequences of the modal unification of the functional calling paradigms

Espírito Santo, José; McDermott, Dylan; Pinto, Luis; **Uustalu, Tarmo** 29th International Conference on Types for Proofs and Programs, TYPES 2023 : Valencia, Spain, 12-15 June 2023, Abstracts 2023 / p. 33-35 <https://types2023.webs.upv.es/TYPES2023.pdf>

Container combinatorics : monads and lax monoidal functors

Uustalu, Tarmo Topics in Theoretical Computer Science : Second IFIP WG 1.8 International Conference, TTCS 2017, Tehran, Iran, September 12-14, 2017 : proceedings 2017 / p. 91-105 : ill https://doi.org/10.1007/978-3-319-68953-1_8 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Decomposing comonad morphisms

Ahman, Danel; **Uustalu, Tarmo** 8th Conference on Algebra and Coalgebra in Computer Science : CALCO 2019, University College London, United Kingdom, 3-6 June 2019 / art. 14 ; 20 p <https://doi.org/10.4230/LIPIcs.CALCO.2019.14> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Deductive systems and coherence for skew prounital closed categories

Uustalu, Tarmo; Veltri, Niccolo; Zeilberger, Noam Proceedings of the 3rd Annual International Applied Category Theory Conference 2020 2021 / p. 1-19 <https://doi.org/10.48550/arXiv.2101.03809> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Degrading lists

McDermott, Dylan; Pirog, Maciej; **Uustalu, Tarmo** Proceedings of the 22nd International Symposium on Principles and Practice of Declarative Programming (PPDP 2020), Part of BOPL 2020 : The Bologna Federated Conference on Programming Languages, 8-10 September 2020 / art. 6, 14 p <https://doi.org/10.1145/3414080.3414084> [Conference proceedings at Scopus](#) [Article at Scopus](#)

The delay monad and restriction categories

Uustalu, Tarmo; Veltri, Niccolo Theoretical Aspects of Computing - ICTAC 2017 : 14th International Colloquium Hanoi, Vietnam, October 23-27, 2017 : proceedings 2017 / p. 32-50 https://doi.org/10.1007/978-3-319-67729-3_3 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Directed containers as categories

Ahman, Danel; **Uustalu, Tarmo** Proceedings 6th Workshop on Mathematically Structured Functional Programming (MSFP 2016) : Eindhoven, The Netherlands, 8 April 2016 / p. 89-98 <https://doi.org/10.4204/eptcs.207.5> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Distributive laws of directed containers

Ahman, Danel; **Uustalu, Tarmo** Progress in Informatics 2013 / p. 3-18 <https://doi.org/10.2201/NiPi.2013.10.2> [Journal metrics at Scopus](#) [Article at Scopus](#)

Distributive laws of directed containers : [extended abstract]

Ahman, Danel; **Uustalu, Tarmo** 11th International Workshop on Coalgebraic Methods in Computer Science : CMCS 2012 : Tallinn, Estonia, 31 March - 1 April 2012 : short contributions 2012 / [p. 1-3] <https://cs.ioc.ee/~danel/papers/cmcs12.pdf>

A divertimento on MonadPlus and nondeterminism

Uustalu, Tarmo Journal of logical and algebraic methods in programming 2016 / p. 1086-1094 : ill <https://doi.org/10.1016/j.jlamp.2016.06.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Doktoriõpe pole ülikoolide siseasi : [24. okt. TTÜs toimunud doktoriõpet käsitlevast konverentsist]

Mõttus, Anu; **Vaikmäe, Rein; Uustalu, Tarmo** Õpetajate Leht 2007 / 2. nov., lk. 3 https://artiklid.elnet.ee/record=b2374917*est

Eesti arvutiteadus Viinistul : [TTÜ küberneetika instituudi korraldatud arvutiteaduse teooriapäevadest Viinistul ja programmeerimise konverentsist Tallinnas]

Uustalu, Tarmo IT ja Side 2005 / 6, lk. 15

Eilenberg-Kelly reloaded

Uustalu, Tarmo; Veltri, Niccolo; Zeilberger, Noam Electronic notes in theoretical computer science 2020 / p. 233-256 <https://doi.org/10.1016/j.entcs.2020.09.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Esimene arvutiteaduse teooriapäev

Uustalu, Tarmo Universitas Tartuensis 2002 / 8. nov., lk. 2

Estonian code of conduct for research integrity

2017 http://www.ester.ee/record=b4761004*est

An Estonian Research Excellence Centre in Computer Science : [the Estonian Centre for Dependable Computing]

Uustalu, Tarmo Estonia : member state of NATO and the EU : international business handbook 2007-2008 2007 / p. 182-190 : portr https://www.ester.ee/record=b2288232*est

Euroopa rakendussemantika Mustpeade Majas : [14.-16. apr. 2004 toimus TTÜ Küberneetika Instituudi korraldatud rahvusvaheline workshop APPSEM'04 programmeerimise semantikast ja selle rakendustest]

Uustalu, Tarmo Mente et Manu 2004 / 13. mai, lk. 2 : fot https://www.ester.ee/record=b1242496*est

Experimenting with graded monads: certified grading-based program transformations

Talvik, Tõnn; **Uustalu, Tarmo** 24th International Conference on Types for Proofs and Programs : TYPES 2018, Braga, Portugal, 18-21 June, 2018 : abstracts 2018 / p. 82-83 <https://types2018.proj.eu/book-of-abstracts/>

Finiteness and rational sequences, constructively

Uustalu, Tarmo; Veltri, Niccolo Journal of functional programming 2017 / art. e13, p. 1-20 <https://doi.org/10.1017/S0956796817000041>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Flexible presentations of graded monads

Katsumata, Shin-ya; McDermott, Dylan; **Uustalu, Tarmo**; Wu, Nicolas Proceedings of the ACM on Programming Languages 2022 / art. 123, 28 p <https://doi.org/10.1145/3547654> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Flexibly graded monads and graded algebras

McDermott, Dylan; **Uustalu, Tarmo** Mathematics of Program Construction : 14th International Conference on Mathematics of Program Construction, MPC 2022, Tbilisi, September 26-28, 2022 : proceedings 2022 / p. 102-128 : ill https://doi.org/10.1007/978-3-031-16912-0_4 [Conference Proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#) [Conference proceeding at WOS](#)

Foreword

Vain, Jüri; Uustalu, Tarmo Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2003 / 4, p. 334
https://artiklid.elnet.ee/record=b1014450*est

Foreword

Uustalu, Tarmo ICFP'13 : proceedings of the 2013 ACM SIGPLAN International Conference on Functional Programming 2013 / p. iii
[Conference Proceedings at Scopus](#) [Article at Scopus](#)

Formalizing restriction categories

Chapman, James; Uustalu, Tarmo; Veltri, Niccolo Journal of formalized reasoning 2017 / p. 1-36 <https://doi.org/10.6092/issn.1972-5787/6237> [Journal metrics at Scopus](#) [Article at Scopus](#)

14th Nordic Workshop on Programming Theory : NWPT 2002, Tallinn, Estonia, 20-22 November 2002 : abstracts

Vain, Jüri; Uustalu, Tarmo 2002 https://www.ester.ee/record=b1710210*est

Generating representative executions : extended abstract

Maarand, Hendrik; Uustalu, Tarmo 10th Workshop on Programming Language Approaches to Concurrency- and Communication-cEntric Software : PLACES 2017 : Uppsala, Sweden, 29 April 2017 2017 / p. 39-48 : ill <https://doi.org/10.4204/EPTCS.246.8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Guest editors' foreword

Uustalu, Tarmo; Vain, Jüri Journal of logical and algebraic methods in programming 2016 / p. 1109
<https://doi.org/10.1016/j.jlamp.2016.10.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hea teadustava

2017 http://www.ester.ee/record=b4761000*est https://www.eetika.ee/sites/default/files/www_ut/hea_teadustava_trukis.pdf

A Hoare logic for the coinductive trace-based big-step semantics of While

Nakata, Keiko; Uustalu, Tarmo Logical methods in computer science 2015 / p. 1-32 [https://doi.org/10.2168/LMCS-11\(1:1\)2015](https://doi.org/10.2168/LMCS-11(1:1)2015) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interaction laws of monads and comonads

Katsumata, Shin-ya; Rivas, Exequiel; **Uustalu, Tarmo** arXiv.org 2019 / 28 p. : ill <https://arxiv.org/abs/1912.13477>

Interaction laws of monads and comonads

Katsumata, Shin-ya; Rivas, Exequiel; **Uustalu, Tarmo** Proceedings of the 35th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2020) : July 8-11, 2020 Saarbrücken, Germany 2020 / p. 604-618 <https://doi.org/10.1145/3373718.3394808> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Interaction morphisms [extended abstract]

Katsumata, Shin-ya; **Uustalu, Tarmo** CoALP-Ty16 : pre-proceedings of the Workshop on Coalgebra, Horn Clause Logic Programming and Types : November 28-29, 2016, Edinburgh, UK 2016 / p. 7-8 <https://arxiv.org/pdf/1612.03032.pdf>

Iteration and coiteration schemes for higher-order and nested datatypes

Abel, Andreas; Matthes, Ralph; **Uustalu, Tarmo** Theoretical computer science 2005 / 1/2, p. 3-66 <https://www.sciencedirect.com/science/article/pii/S0304397504007078>

Journal of logical and algebraic methods in programming. Vol. 85, iss. 6, NWPT 2013
2016

Kas tehismõistus peaks aru andma?

Uustalu, Tarmo Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2016 2017 / lk. 66-68 : portr http://www.ester.ee/record=b1218094*est

Kokelt Palmssesse - arvutiteaduse probleemid kaasas : [IV Eesti arvutiteaduse teooriapäevad 30. jaan.-1. veebr. 2004 Harjumaal Kokel ja 9. Eesti Arvutiteaduse Talvekool 29. veebr.-5. märts 2004 Palmsses]

Uustalu, Tarmo Mente et Manu 2004 / 30. märts, lk. 6 : fot https://www.ester.ee/record=b1242496*est

Käivitus mastaapne ITala europrojekt : [eVikings II projekt on Euroopa Liidu 5. raamprogrammi infoühiskonna tehnoloogiatega (IST) alaprogrammile esitatud kaasnevate meetmete projekt, projekti koordinaator on TTÜ Küberneetika Instituut, lepinguosaline ka TTÜ]

Uustalu, Tarmo Mente et Manu 2003 / 4. veebr., lk. 2 https://www.ester.ee/record=b1242496*est

Logics for low-level code and proof-preserving program transformations = Loogikad madala taseme koodile ja tõestusi säilitavad programmiteisendused

Saabas, Ando 2008 https://www.ester.ee/record=b2431341*est

Logics of skew categorical structures

Uustalu, Tarmo; Veltri, Niccolo; Wan, Cheng-Syuan Logic4Peace : fundraising online logic event for peace, April 22-23, 2022 : book of abstracts 2022 / p. 81-82 https://events.illc.uva.nl/Logic4Peace/uploaded_files/inlineitem/slides/Uustalu-et-al_L4P-slides.pdf

Machine assisted proofs in the theory of monads

Altenkirch, Thorsten; **Chapman, James; Uustalu, Tarmo** 21st Nordic Workshop on Programming Theory : NWPT 2009 : Lyngby, Denmark, 14-16 October 2009 : proceedings 2009 / p. 83-85 https://jmchapman.io/papers/Assisted_Monads.pdf

Matemaatiline tarkvaratehnoloogia Saaremaal : [rahvusvahelisest konverentsist]

Uustalu, Tarmo Aastaraamat 2006 / Eesti Matemaatika Selts 2007 / lk. 136-138

Mathematics of Program Construction : 8th International Conference, MPC 2006 : Kuressaare, Estonia, July 2006 : proceedings

Uustalu, Tarmo 2006 https://www.ester.ee/record=b2160527*est

Millised kogemused on teil õppimisest ja õpetamisest välismaal? : [küsimusele vastab ka Tarmo Uustalu]

Uustalu, Tarmo Õpetajate Leht 2009 / 13. nov., lk. 3 https://artiklid.elnet.ee/record=b1502235*est

MOBIUS: mobiilsus, ubikviteet, turvalisus! : [alates septembrist osaleb TTÜ Küberneetika Instituut EL 6. raamkava infoühiskonna tehnoloogiatega (IST) prioriteetse teemavaldkonna projekti MOBIUS konsortsiumis]

Uustalu, Tarmo Mente et Manu 2005 / 30. nov., lk. 4 https://artiklid.elnet.ee/record=b2351998*est

Modal embeddings and calling paradigms

Espírito Santo, Jose; Pinto, Luis; **Uustalu, Tarmo** 4th International Conference on Formal Structures for Computation and Deduction : FSCD 2019, Dortmund, Germany, 24-30 June 2019 2019 / art. 18 ; 20 p. : ill <https://doi.org/10.4230/LIPLcs.FSCD.2019.18> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Modal embeddings and calling paradigms

Santo, José Espírito; Pinto, Luís; **Uustalu, Tarmo** Days in Logic 2022 : Universidade do Algrave, June 30-July 2, 2022 2022 / 20 p <https://drops.dagstuhl.de/opus/volltexte/2019/10525/pdf/LIPLcs-FSCD-2019-18.pdf> <https://daysinlogic2022.ualg.pt/wp-content/uploads/2022/06/BookletDIL2022.pdf>

Monadic augment and generalised short cut fusion

Ghani, Neil; **Johan, Patricia; Uustalu, Tarmo; Vene, Varmo** ICFP'05 : Proceedings of the Tenth ACM SIGPLAN International Conference on Functional Programming : September 26-28, 2005, Tallinn, Estonia 2005 / p. 294-305

Monads need not be endofunctors

Altenkirch, Thorsten; **Chapman, James; Uustalu, Tarmo** Logical methods in computer science 2015 / p. 1-40

[https://doi.org/10.2168/LMCS-11\(1:3\)2015](https://doi.org/10.2168/LMCS-11(1:3)2015) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Normalization by evaluation for lambda 2

Altenkirch, Thorsten; **Uustalu, Tarmo** Functional and Logic Programming : 7th International Symposium, FLOPS 2004 : Nara, Japan, April 7-9, 2004 : proceedings 2004 / p. [260]-275

Näilik efektiivsus ja kvaliteet : projektipõhine teaduskorraldus taandab teadlased juhutöolisteks

Uustalu, Tarmo Sirp 2014 / lk. 34-35 <https://www.sirp.ee/s1-artiklid/c9-sotsiaalia/2014-01-09-14-40-08/>

On streams that are finitely red

Bezem, Marc; **Nakata, Keiko; Uustalu, Tarmo** Logical methods in computer science 2012 / p. 1-20

https://www.researchgate.net/publication/231582269_On_streams_that_are_finitely_red

Operational semantics of weak sequential composition = Nõrga jadakompositsiooni operatsioonsemantika

Maarand, Hendrik 2020 <https://digikogu.taltech.ee/et/Item/40485316-9724-464b-9428-5686ad3814eb>

Operational semantics with semicommutations

Maarand, Hendrik; Uustalu, Tarmo Journal of logical and algebraic methods in programming 2021 / art. 100677, 27 p

<https://doi.org/10.1016/j.jlamp.2021.100677> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Operational semantics with semicommutations

Maarand, Hendrik; Uustalu, Tarmo 31st Nordic Workshop on Programming Theory, NWPT 2019, Tallinn, Estonia, 13-15

November 2019 : abstracts 2019 / p. 40-43 <https://doi.org/10.23658/taltech.nwpt/2019>

<https://cs.ttu.ee/events/nwpt2019/abstracts/paper24.pdf>

Palmse, märts ja teoreetiline arvutiteadus

Uustalu, Tarmo Mente et Manu 2016 / lk. 7-9 : fot https://artiklid.elnet.ee/record=b2758759*est

Paneme masina aru andma

Uustalu, Tarmo Postimees 2016 / AK, lk. 9

Partiality and container monads

Uustalu, Tarmo; Veltri, Niccolo Programming Languages and Systems : 15th Asian Symposium, APLAS 2017, Suzhou, China,

November 27–29, 2017 : proceedings 2017 / p. 406-425 : ill https://doi.org/10.1007/978-3-319-71237-6_20 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Partiality and container monads

Uustalu, Tarmo; Veltri, Niccolo 23rd International Conference on Types for Proofs and Programs, TYPES 2017, Budapest,

Hungary, 29 May - 1 June 2017 : abstracts 2017 / p. 99-100 <https://types2017.elte.hu/proc.pdf#page=107> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Partiality via coinductive types (abstract)

Uustalu, Tarmo Oberwolfach reports / European Mathematical Society 2005 / p. 807

Plotkin's call-by-value λ -calculus as a modal calculus

Espírito Santo, José; Pinto, Luis; **Uustalu, Tarmo** Journal of Logical and Algebraic Methods in Programming 2022 / art. 100775, 17

p <https://doi.org/10.1016/j.jlamp.2022.100775> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preface

Uustalu, Tarmo; Vain, Jüri 31st Nordic Workshop on Programming Theory, NWPT 2019, Tallinn, Estonia, 13-15 November 2019 :

abstracts 2019 / p. iii <https://doi.org/10.23658/taltech.nwpt/2019>

Preface

Fischer, Bernd; **Uustalu, Tarmo** Theoretical Aspects of Computing - ICTAC 2018 : 15th International Colloquium, Stellenbosch,

South Africa, October 16-19, 2018 : proceedings 2018 / p. V-VI <https://link.springer.com/content/pdf/bfm%3A978-3-030-02508-3%2F1.pdf>

https://www.ester.ee/record=b5174218*est <https://doi.org/10.1007/978-3-030-02508-3> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Preface

Matthes, Ralph; **Uustalu, Tarmo** RAIRO - Theoretical Informatics and Applications 2013 / p. 1-2 <https://doi.org/10.1051/ita/2012026>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Programm PARROTilt Tehnikaülikoolile : [Eesti-Prantsuse teadus- ja tehnoloogiaalase koostööprogrammi raames rahastatakse 2003. a. 10 rahvusvahelise teadlastegrupi koostööd, sh teadlased TTÜst : Tarmo Uustalu kommentaariga]
Kurss, Helen; **Uustalu, Tarmo** Mente et Manu 2003 / 4. veebr., lk. 3 https://www.ester.ee/record=b1242496*est

Programmeerijad jäid rahule : [23. sept.-1. okt. peetud programmikeelte ja tarkvaratehnoloogia ühendkonverentsist ja sellele järgnenud seminarist Kalvi mõisas 1.-4. okt. : vastab üks konverentsi korraldajaist Tarmo Uustalu]
Uustalu, Tarmo Mente et Manu 2005 / 19. okt., lk. 2 https://www.ester.ee/record=b1242496*est

Programmikeelte suurkonverents : [ühendkonverents TFP/ICFP/GPCP 2005 Tallinnas]
Uustalu, Tarmo Tallinna Tehnikaülikooli aastaraamat 2005 2006 / lk. 391-393

Proof theory of partially normal skew monoidal categories

Uustalu, Tarmo; Veltri, Niccolo; Zeilberger, Noam Proceedings of the 3rd Annual International Applied Category Theory Conference 2020 2021 / p. 1-17 <https://doi.org/10.48550/arXiv.2101.10487> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Proof theory of semi-substructural logics = Pool-allstruktuursete loogikate tõestusteooria

Wan, Cheng-Syuan 2025 <https://digikogu.taltech.ee/et/item/34f5f36e-f48f-400b-bca1-2a59ac30c392>
https://www.ester.ee/record=b5752421*est <https://doi.org/10.23658/taltech.43/2025>

Proof theory of skew non-commutative MILL

Uustalu, Tarmo; Veltri, Niccolo; Wan, Cheng-Syuan Proceedings of 10th International Conference on Non-Classical Logics. Theory and Applications, NCL 2022, 14. March, 2022 2022 / p. 118-135 <https://doi.org/10.4204/EPTCS.358.9> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A proof-theoretic study of bi-intuitionistic propositional sequent calculus

Pinto, Luis; **Uustalu, Tarmo** Journal of logic and computation 2018 / p. 165-202 <https://doi.org/10.1093/logcom/exx044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quotienting the delay monad by weak bisimilarity

Chapman, James; **Uustalu, Tarmo; Veltri, Niccolo** Mathematical structures in computer science 2019 / p. 67-92
<https://doi.org/10.1017/s0960129517000184> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quotienting the delay monad by weak bisimilarity

Chapman, James; Uustalu, Tarmo; Veltri, Niccolo 21st International Conference on Types for Proofs and Programs, TYPES 2015 : Tallinn, Estonia, 18-21 May 2015 : abstracts 2015 / p. 38-39

Quotienting the delay monad by weak bisimilarity

Chapman, James; Uustalu, Tarmo; Veltri, Niccolò Theoretical Aspects of Computing - ICTAC 2015 : 12th International Colloquium, Cali, Colombia, October 29-31, 2015, Proceedings 2015 / p. 110 - 125 https://doi.org/10.1007/978-3-319-25150-9_8
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Rahvusvaheline Eesti arvutiteadus : [arvutiteaduse teooriapäevadest. Bergeni professori loengukursusest. Arvutiteaduse talvekoolist. Tulevatest suvesündmustest]

Uustalu, Tarmo Mente et Manu 2005 / 6. apr., lk. 9, 10 : fot https://www.ester.ee/record=b1242496*est

Reasoning about correctness of transactional memory with operational semantics

Saar, Andri; Uustalu, Tarmo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK neljanda aastakonverentsi artiklite kogumik : 26.-27. novembril 2010, Essu mõis 2010 / lk. 145-148

Relative monads formalised

Altenkirch, Thorsten; **Chapman, James; Uustalu, Tarmo** Journal of formalized reasoning 2014 / p. 1-43
<https://doi.org/10.6092/issn.1972-5787/4389> [Journal metrics at Scopus](#) [Article at Scopus](#)

Reordering derivatives of trace closures of regular languages [Online resource]

Maarand, Hendrik; Uustalu, Tarmo 30th International Conference on Concurrency Theory : (CONCUR 2019) 2019 / art. 40 ; 40:1–40:16 <https://doi.org/10.4230/LIPIcs.CONCUR.2019.40> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Seitse aastat soosingut

Uustalu, Tarmo Mente et Manu 2015 / lk. 9-11 : fot https://artiklid.elnet.ee/record=b2741003*est

The sequent calculus of skew monoidal categories

Uustalu, Tarmo; Veltri, Niccolo; Zeilberger, Noam The interplay of mathematics, logic, and linguistics 2021 / p. 377-406
https://doi.org/10.1007/978-3-030-66545-6_11

The sequent calculus of skew monoidal categories

Uustalu, Tarmo; Veltri, Niccolo; Zeilberger, Noam Electronic notes in theoretical computer science 2018 / p. 345-370

<https://doi.org/10.1016/j.entcs.2018.11.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Signals and comonads

Uustalu, Tarmo; Vene, Varmo Proceedings of 9th Brazilian Symposium on Programming Languages : SBLP'05 : Recife, Brazil, May 23-25, 2005 / p. 215-228

Signals and comonads

Uustalu, Tarmo; Vene, Varmo Journal of universal computer science 2005 / 7, p. 1310-1326

https://www.jucs.org/jucs_11_7/signals_and_comonads.html

Sisust ja mainest

Uustalu, Tarmo A & A 2008 / lk. 5-7 https://artiklid.elnet.ee/record=b1022326*est

6th Workshop on Fixed Points in Computer Science : FICS 2009 : Coimbra, Portugal, 12-13 September 2009 : proceedings

Matthes, Ralph; **Uustalu, Tarmo** 2009 https://www.ester.ee/record=b2506216*est

Stateful runners of effectful computations

Uustalu, Tarmo Electronic notes in theoretical computer science 2015 / p. 403-421 <https://doi.org/10.1016/j.entcs.2015.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#)

Structured general corecursion and coinductive graphs [extended abstract]

Uustalu, Tarmo EPTCS 77 : proceedings of the 8th Workshop on Fixed Points in Computer Science : Tallinn, Estonia, 24th March 2012 / p. 55-61 <https://arxiv.org/abs/1202.3502>

Sweedler theory of monads

McDermott, Dylan; **Rivas, Exequiel; Uustalu, Tarmo** Foundations of Software Science and Computation Structures : 25th International Conference, FOSSACS 2022, Held As Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2022, Munich, Germany, April 2-7, 2022 : proceedings 2022 / p. 428-448 https://doi.org/10.1007/978-3-030-99253-8_22 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Taking updates seriously

Ahman, Danel; **Uustalu, Tarmo** 6th International Workshop on Bidirectional Transformations, BX 2017 : Uppsala, Sweden, 29 April 2017 / p. 59-73 : ill <http://ceur-ws.org/Vol-1827/paper11.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

Talvise Palmse arvutiteaduse musti auke lappimas : [2.-7. märtsil Palmse toimunud kaheksandast Eesti arvutiteaduse talvekoolist EWSCS'03]

Uustalu, Tarmo Mente et Manu 2003 / 1. apr., lk. 2 : fot https://www.ester.ee/record=b1242496*est

Tarkvaratehnoloogias Saaremaal : [2.-8. juulini toimunud matemaatilise tarkvaratehnoloogia ühendkonverentsist MPC/AMAST 2006]

Uustalu, Tarmo Mente et Manu 2006 / 20. sept., lk. 3 https://www.ester.ee/record=b1242496*est

Tarmo Uustalu is creating a new computer language

Uustalu, Tarmo Estonian Centre of Excellence in ICT Research 2021 / p. 73-77 : ill <http://www.digar.ee/id/nlib-digar:634779> https://www.ester.ee/record=b5456158*est

Teadus ja väärtus

Uustalu, Tarmo Teadusmõtte Eestis (VIII). Teaduskultuur : [artiklikogumik] 2013 / lk. 10-15 : portr

Teaduse tippkeskus infotehnoloogia alal : [Töökindlate Arvutisüsteemide Uurimise Keskusest]

Uustalu, Tarmo Eesti aastaraamat 2006-2007 2006 / lk. 175-184 : fot

Teaduspreemia täppisteaduste alal tööde tsükli "Matemaatilised struktuurid funktsionaalprogrammeerimises" eest : Tarmo Uustalu

Uustalu, Tarmo Eesti Vabariigi preemiad : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2015 / lk. 52-62 : portr

Tehnikaülikoolis on uus akadeemik - Tarmo Uustalu : [intervjuu Tarmo Uustaluga]

Uustalu, Tarmo Mente et Manu 2011 / lk. 3, 4 : fot https://www.ester.ee/record=b1242496*est

The essence of dataflow programming (short version)

Uustalu, Tarmo; Vene, Varmo Programming Languages and Systems : Third Asian Symposium : APLAS 2005 : Tsukuba, Japan, November 2-5, 2005 : proceedings 2005 / p. 2-18

The journal of logic and algebraic programming

2010 https://www.ester.ee/record=b1200932*est

2nd APPSEM II Workshop : APPSEM 2004 : Tallinn, Estonia, 14-16 April 2004 : proceedings

Uustalu, Tarmo; Saabas, Ando 2004 https://www.ester.ee/record=b1893488*est

31st Nordic Workshop on Programming Theory, NWPT 2019, Tallinn, Estonia, 13-15 November 2019 : abstracts [Online resource]

2019 <https://doi.org/10.23658/taltech.nwpt/2019> https://www.ester.ee/record=b5292609*est

25th Nordic Workshop on Programming Theory NWPT 2013 : Tallinn, Estonia, 20-22 November 2013 : abstracts [Electronic resource]

2013 https://www.ester.ee/record=b3039924*est

Theoretical Aspects of Computing - ICTAC 2018 : 15th International Colloquium, Stellenbosch, South Africa, October 16-19, 2018 : proceedings

2018 https://www.ester.ee/record=b5174218*est <http://doi.org/10.1007/978-3-030-02508-3>

Tiipitaseme arvutiteaduse konverents Tallinnas : [23. sept.-1. okt. : korraldas TTÜ Küberneetika Instituut]

Uustalu, Tarmo Mente et Manu 2005 / 5. okt., lk. 3 https://www.ester.ee/record=b1242496*est

Toimus esimene arvutiteaduse teooriapäev : [16.-17. okt. Roosta puhkekülas Noarootsis : korraldas TTÜ Küberneetika Instituut]

Uustalu, Tarmo Mente et Manu 2002 / 29. okt., lk. 1, 4 https://www.ester.ee/record=b1242496*est

20th Nordic Workshop on Programming Theory : NWPT 2008 : Tallinn, Estonia, 19-21 November 2008 : abstracts

Uustalu, Tarmo; Vain, Jüri; Ernits, Juhan-Peep 2008 https://www.ester.ee/record=b2435749*est

21st International Conference on Types for Proofs and Programs : TYPES 2015, May 18-21, 2015, Tallinn, Estonia [Online resource]

2018 <http://doi.org/10.4230/lipics.types.2015.0> <http://www.dagstuhl.de/dagpub/978-3-95977-030-9>

21st International Conference on Types for Proofs and Programs, TYPES 2015 : Tallinn, Estonia, 18-21 May 2015 : abstracts

2015 http://www.ester.ee/record=b4473137*est

A type system with subtyping for Webassembly's stack polymorphism

McDermott, Dylan; Morita, Yasuaki; **Uustalu, Tarmo** Theoretical Aspects of Computing - ICTAC 2022 : 19th International Colloquium, Tbilisi, Georgia, September 27-30, 2022 : proceedings 2022 / p. 305-323 https://doi.org/10.1007/978-3-031-17715-6_20 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Type systems equivalent to dataflow analyses for imperative languages

Laud, Peeter; **Uustalu, Tarmo**; Vene, Varmo Proceedings of 3rd APPSEM II Workshop : APPSEM'05 : Frauenchiemsee, September 2005 / [12] p <https://www.sciencedirect.com/science/article/pii/S0304397506005524>

Type systems for optimizing stack-based code

Saabas, Ando; Uustalu, Tarmo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuuseum 2007 / lk. 97-100

A type-theoretical study of nontermination = Tüübiteoreetiline uurimus mittetermineeruvusest

Veltri, Niccolo 2017 <https://digi.lib.ttu.ee/i/?7631>

A unifying categorical view of nondeterministic iteration and tests

Goncharov, Sergey; **Uustalu, Tarmo** 35th International Conference on Concurrency Theory (CONCUR 2024) 2024 / art. 25 <https://doi.org/10.4230/LIPIcs.CONCUR.2024.25> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Update monads: Cointerpreting directed containers

Ahman, Danel; **Uustalu, Tarmo** 19th International Conference on Types for Proofs and Programs : TYPES 2013, April 22–26, 2013, Toulouse, France 2014 / p. 1-23 : ill <https://doi.org/10.4230/LIPIcs.TYPES.2013.1> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Upwards accumulations and comonad structure : (abstract)

Uustalu, Tarmo; Vene, Varmo 14th Nordic Workshop on Programming Theory : NWPT 2002, Tallinn, Estonia, 20-22 November 2002 : abstracts 2002 / p. 95-96

Variations on Noetherianness

Firsov, Denis; Uustalu, Tarmo; Veltri, Niccolo Proceedings 6th Workshop on Mathematically Structured Functional Programming (MSFP 2016) : Eindhoven, The Netherlands, 8 April 2016 2016 / p. 76-88 : ill <https://doi.org/10.4204/eptcs.207.4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Welcome to TFP, ICFP and GPCE 2005 in Tallinn

Uustalu, Tarmo TFP/ICFP/GPCE 2005 : Tallinn, Estonia, 23 September - 1 October 2005 : final programme 2005 / p. 3

What makes a strong monad?

McDermott, Dylan; **Uustalu, Tarmo** Proceedings of the Ninth Workshop on Mathematically Structured Functional Programming 2022 / p. 113-133 <https://doi.org/10.4204/EPTCS.360.6> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

When is a container a comonad?

Ahman, Danel; **Chapman, James; Uustalu, Tarmo** Foundations of Software Science and Computational Structures : 15th International Conference, FOSSACS 2012, Held as Part of The European Joint Conferences on Theory and Practice of Software, ETAPS 2012, Tallinn, Estonia, March 24 - April 1, 2012 : proceedings 2012 / p. 74-88 : ill https://artiklid.elnet.ee/record=b2491247*est

When is a container a comonad?

Ahman, Danel; **Chapman, James; Uustalu, Tarmo** Logical methods in computer science 2014 / p. 1-48 : ill [https://doi.org/10.2168/LMCS-10\(3:14\)2014](https://doi.org/10.2168/LMCS-10(3:14)2014) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Viikingisõit läbi : [TTÜ Küberneetika Instituut lõpetas EL 5. raamprogrammi infoühiskonna tehnoloogiatega alaprogrammi projekti eVikings II]

Uustalu, Tarmo Mente et Manu 2005 / 16. nov., lk. 3 https://www.ester.ee/record=b1242496*est

Workshop on Mathematically Structured Functional Programming : MSFP 2006 : Kuressaare, Estonia, 2 July 2006 : proceedings

2006 http://www.ester.ee/record=b2155741*est

Värv ja sära Palmses : [13. Eesti arvutiteaduse talvekoolist]

Uustalu, Tarmo A & A 2008 / lk. 58-59 : fot https://artiklid.elnet.ee/record=b2380423*est

Värv ja sära Palmses : [13. Eesti arvutiteaduse talvekoolist]

Uustalu, Tarmo Mente et Manu 2008 / lk. 2 : fot https://artiklid.elnet.ee/record=b2380423*est

Õhinapõhine teadus vs teaduse toiduahel : [vestlus TTÜ professori Tarmo Uustaluga]

Kello, Karl; **Uustalu, Tarmo** Õpetajate Leht 2013 / lk. 13 https://artiklid.elnet.ee/record=b2649870*est

О некоторых классах наследственно перечислимых множеств

Uustalu, Tarmo; Lorents, Peeter Известия Академии наук Эстонии. Физика. Математика 1990 / 2, с. 108-112