

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](#)

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](#)

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](#)

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](#)

Combining effects and coeffects 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>

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](#)

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](#)

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 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](#)

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](#)

En garde! Unguarded iteration for reversible computation in the delay monad

Kaarsgaard, Robin; **Veltri, Niccolo** Mathematics of Program Construction : 13th International Conference, MPC 2019, Porto, Portugal, October 7–9, 2019 : proceedings 2019 / p. 366-384 https://doi.org/10.1007/978-3-030-33636-3_13

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](#)

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 laws of monads and comonads

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

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

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 https://libres.uncg.edu/ir/asu/f/Johann_Patricia_Ghani_Neil_2007_Monadic_Augment_and_Generalized.pdf

Normalization by evaluation in the delay monad: A case study for coinduction via copatterns and sized types

Abel, Andreas; **Chapman, James** Proceedings of the 5th Workshop on Mathematically Structured Functional Programming (MSFP 2014) : Grenoble, France, 12 April 2014 2014 / p. 51-67 <https://doi.org/10.4204/EPTCS.153.4> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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](#)

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](#)

Slice nondeterminism

Voorneveld, Niels 4th International Conference on Interactive Theorem Proving, ITP 2023, Bialystok, 31 July - 4 August 2023 2023 / art. 31, 19 p <https://doi.org/10.4230/LIPIcs.ITP.2023.31> [Conference proceeding at Scopus](#) [Article at Scopus](#)

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](#)

The formal theory of relative monads

Arkor, Nathanael; McDermott, Dylan Journal of pure and applied algebra 2024 / art. 107676, 107 p. : ill <https://doi.org/10.1016/j.jpaa.2024.107676> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

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](#)