

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>

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](#)

Consequences of the modal unification of the functional calling paradigms

Espírito Santo, José; McDermott, Dylan; Pinto, Luís; **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>

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](#)

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](#)

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](#)

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](#)

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](#)