

Publications of Martín H. Escardó,
last updated November 27, 2008

Available at <http://www.cs.bham.ac.uk/~mhe/papers/index.html>.

2008

References

- [1] M.H. Escardó. Exhaustible sets in higher-type computation. *Log. Methods Comput. Sci.*, 4(3):3:3, 37, 2008.

2007

References

- [1] Martin Escardo. Infinite sets that admit fast exhaustive search. In *LICS '07: Proceedings of the 22nd Annual IEEE Symposium on Logic in Computer Science*, pages 443–452, Washington, DC, USA, 2007. IEEE Computer Society.
- [2] J. Raymundo Marcial-Romero and Martín H. Escardó. Semantics of a sequential language for exact real-number computation. *Theor. Comput. Sci.*, 379(1-2):120–141, 2007.

2006

References

- [1] F. DeJaeger, M.H. Escardó, and G. Santini. On the computational content of the Lawson topology. *Theoretical Computer Science*, 357:230–240, 2006.

- [2] M.H. Escardó. Compactly generated Hausdorff locales. *Annals of Pure and Applied Logic*, 137(1–3):147–163, 2006.
- [3] M.H. Escardó, A. Jung, and T. Streicher, editors. *Special issue in honour of Klaus Keimel’s 65th birthday*, 2006. *Mathematical Structures in Computer Science*, volume 16, number 2.

2005

References

- [1] M.H. Escardó and W.K. Ho. Operational domain theory and topology of a sequential programming language. In *Proceedings of the 20th Annual IEEE Symposium on Logic in Computer Science*, pages 427–436. IEEE Computer Society, 2005.
- [2] N. Müller, M.H. Escardó, and P. Zimmermann, editors. *Practical development of exact real number computation*, 2005. *Journal of Logic and Algebraic Programming*, volume 64, issue 1.

2004

References

- [1] L. Birkedal, M.H. Escardó, A. Jung, and G. Rosolini, editors. *Recent developments in domain theory: a collection of papers in honour of Dana S. Scott*, 2004. *Theoretical Computer Science*, vol. 316 no. 1-3.
- [2] M.H. Escardó. Synthetic topology of data types and classical spaces. *Electronic Notes in Theoretical Computer Science*, 87:21–156, 2004.
- [3] M.H. Escardó, M. Hofmann, and T. Streicher. On the non-sequential nature of the interval-domain model of real-number computation. *Mathematical Structures in Computer Science*, 14(6):803–814, 2004.
- [4] M.H. Escardó and A. Jung, editors. *Proceedings of the Workshop on Domains VI*, volume 73 of *Electronic Notes in Theoretical Computer Science*, 2004.
- [5] M.H. Escardó, J. Lawson, and A. Simpson. Comparing Cartesian closed categories of (core) compactly generated spaces. *Topology and its Applications*, 143(1-3), 2004.

- [6] J.R. Marcial-Romero and M.H. Escardó. Semantics of a sequential language for exact real-number computation. In *Proceedings of the 19th Annual IEEE Symposium on Logic In Computer Science*, pages 426–435. IEEE Computer Society, 2004.

2003

References

- [1] J. Adámek and M. Hofmann M.H. Escardó, editors. *Category Theory and Computer Science*, 2003. *Theoretical Computer Science*, vol. 294, no. 1-3.
- [2] M.H. Escardó. Injective locales over perfect embeddings and algebras of the upper powerlocale monad. *Applied General Topology*, 4(1):193–200, 2003.
- [3] M.H. Escardó. Joins in the frame of nuclei. *Applied Categorical Structures*, 11(2):117–124, 2003.

2002

References

- [1] A. Bauer, M.H. Escardó, and A. Simpson. Comparing functional paradigms for exact real-number computation. In *Automata, languages and programming*, volume 2380 of *Lecture Notes in Comput. Sci.*, pages 489–500. Springer, 2002.
- [2] M.H. Escardó. Function-space compactifications of function spaces. *Topology and its Applications*, 120(3):441–463, 2002.
- [3] M.H. Escardó and R. Heckmann. Topologies on spaces of continuous functions. *Topology Proceedings*, 26(2):545–564, 2002.
- [4] M.H. Escardó and Th. Streicher. In domain realizability, not all functionals on $C[-1,1]$ are continuous. *Mathematical Logic Quarterly*, 48(1):41–44, 2002.

2001

References

- [1] M.H. Escardó. The regular-locally-compact coreflection of stably locally compact locale. *Journal of Pure and Applied Algebra*, 157(1):41–55, 2001.
- [2] M.H. Escardó and A.K. Simpson. A universal characterization of the closed Euclidean interval. In *Proceedings of the 16th Annual IEEE Symposium on Logic in Computer Science*, pages 115–128. IEEE Computer Society, 2001.

2000

References

- [1] A. Edalat and M.H. Escardó. Integration in Real PCF. *Information and Computation*, 160:128–166, 2000.

1999

References

- [1] M.H. Escardó. On the compact-regular coreflection of a stably compact locale. *Electronic Notes in Theoretical Computer Science*, 20, 1999.
- [2] M.H. Escardó and R.C. Flagg. Semantic domains, injective spaces and monads. *Electronic Notes in Theoretical Computer Science*, 20, 1999.
- [3] M.H. Escardó and Th. Streicher. Induction and recursion on the partial real line with applications to Real PCF. *Theoretical Computer Science*, 210(1):121–157, 1999.

1998

References

- [1] T. Erker, M.H. Escardó, and K. Keimel. The way-below relation of function spaces over semantic domains. *Topology and Its Applications*, 89(1–2):61–74, 1998.

- [2] M.H. Escardó. Effective and sequential definition by cases on the reals via infinite signed-digit numerals. *Electronic Notes in Theoretical Computer Science*, 13, 1998.
- [3] M.H. Escardó. Injective spaces and the filter monad. Technical Report ECS-LFCS-98-383, Department of Computer Science, University of Edinburgh, 1998.
- [4] M.H. Escardó. Introduction to Real PCF. In J.-M. Chesneaux, F. Jézéquel, J.-L. Lamotte, and J. Vignes, editors, *Third Real Numbers and Computers Conference (RNC3)*, pages 187–197, Paris, France, April 1998. Université Pierre et Marie Curie. Notes for an invited speech.
- [5] M.H. Escardó. A metric model of PCF. Laboratory for Foundations of Computer Science, University of Edinburgh. Presented at the Workshop on Realizability Semantics and Applications, June 30-July 1, 1999 (associated to the Federated Logic Conference, held in Trento, June 29-July 12, 1999), April 1998.
- [6] M.H. Escardó. Properly injective spaces and function spaces. *Topology and Its Applications*, 89(1–2):75–120, 1998.
- [7] D. Pavlovic and M.H. Escardó. Calculus in coinductive form. In *Proceedings of the 13th Annual IEEE Symposium on Logic in Computer Science*, pages 408–417. IEEE Computer Society, 1998.

1997

References

- [1] M.H. Escardó. Injective spaces via the filter monad. *Topology Proceedings*, 22(2):97–110, 1997.
- [2] M.H. Escardó. PCF extended with real numbers: A domain-theoretic approach to higher-order exact real number computation. Technical Report ECS-LFCS-97-374, Department of Computer Science, University of Edinburgh, December 1997. PhD thesis at Imperial College of the University of London, 1996.
- [3] M.H. Escardó and Th. Streicher. Induction and recursion on the partial real line via biquotients of bifree algebras. In *Proceedings of the 12th Annual IEEE Symposium on Logic in Computer Science*, pages 376–386. IEEE Computer Society, 1997.

- [4] D. Pavlovic and M.H. Escardó. Calculus in coinductive form. Technical Report 97:05, School of Cognitive and Computing Sciences, University of Sussex, 1997.
- [5] P.J. Potts, A. Edalat, and M.H. Escardó. Semantics of exact real number arithmetic. In *Proceedings of the 12th Annual IEEE Symposium on Logic In Computer Science*, pages 248–257. IEEE Computer Society, 1997.

1996

References

- [1] A. Edalat and M.H. Escardó. Integration in Real PCF (extended abstract). In *Proceedings of the 11th Annual IEEE Symposium on Logic In Computer Science*, pages 382–393, 1996.
- [2] M.H. Escardó. PCF extended with real numbers. *Theoretical Computer Science*, 162(1):79–115, 1996.
- [3] M.H. Escardó. Real PCF extended with \exists is universal. In A. Edalat, S. Jourdan, and G. McCusker, editors, *Advances in Theory and Formal Methods of Computing: Proceedings of the Third Imperial College Workshop, April 1996*, pages 13–24, Christ Church, Oxford, 1996. IC Press.

1995

References

- [1] M.H. Escardó. Induction and recursion on the real line. In C. Hankin, I. Mackie, and R. Nagarajan, editors, *Theory and Formal Methods 1994: Proceedings of the Second Imperial College Workshop on Theory and Formal Methods*, pages 259–282, Møller Centre, Cambridge, 1995. IC Press.