

PUBLICATIONS OF WILLIAM DEMEO (as of January 2019)

JOURNAL ARTICLES

1. [Universal algebraic methods for constraint satisfaction problems](#), with Clifford Bergman; to appear in *Logical Methods in Computer Science (LMCS)*; preprint link: [arXiv \[cs.LO\] 1611.02867](#)
2. [Polynomial-time tests for difference terms in idempotent varieties](#), with Freese and Valeriote; to appear in *International Journal of Algebra & Computation (IJAC)*; preprint link: [diffTerm-ijac-r1-draft-20180905.pdf](#)
3. [Isotopic algebras with nonisomorphic congruence lattices](#), *Algebra Universalis* **72**:295–298, 2014; preprint link: [Isotopy-AU-2014.pdf](#)
4. [Expansions of finite algebras and their congruence lattices](#), *Algebra Universalis* **69**:257–278, 2013; preprint link: [DeMeo-Expansions-AU-2013.pdf](#)

REFEREED CONFERENCE PROCEEDINGS

5. [Proceedings of Algebras and Lattices in Hawaii 2018](#), editor with K. Adaricheva, J. Hyndman; preprint link: [lulu.com](#)
6. [Topics in nonabelian harmonic analysis and DSP applications](#), *Proceedings of the International Symposium on Musical Acoustics* Nara, Japan 2004 (best paper award); preprint link: [DeMeo-ISMA2004-FinalPaper.pdf](#)
7. [Characterizing musical signals with Wigner-Ville interferences](#), *Proceedings of the International Computer Music Conference (ICMC)*; Göteborg, Sweden 2002; preprint link: [DeMeo-ICMC2002.pdf](#)
8. [Approximating eigenvalues of large stochastic matrices](#), *Proceedings of the 8th Copper Mt. Conference on Iterative Methods* Colorado, USA 1998 preprint link: [williamde-meo.github.io/MSThesis](#)

PAPERS IN PROGRESS

- [A new characterization of fiber products of lattices](#), with P. Mayr and N. Ruskuc; preprint link: [fg-free-lat-draft-20181018.pdf](#)
- [Representing finite lattices as congruence lattices of finite algebras](#), with R. Freese and P. Jipsen; preprint link: [article-v20160610.pdf](#)

BOOKS IN PROGRESS

- [Algebras, Categories and Types: with computer-aided proofs](#), with Hyeyoung Shin.
- [A Concise Course in Category Theory](#), with Charlotte Aten and Venanzio Capretta.
- [Problems in Real and Complex Analysis](#), link: [PSRCA.html](#)
- [Problems in Groups and Rings](#), link: [PSRCA.html](#)