

## 2.B COMPLETE LIST OF PUBLICATIONS (\* indicates student author)

### TEXT-BOOKS

- (1) Schwab, E. D., Silberberg, G., (2003). Problems in Finite Group Theory. (pp. 90 pgs). Tempe, Arizona: Scholargy-Tempe.
- (2) Schwab, E. D., Schwab, E. H., (1997). Algebraic Structures. Modules. Homological Methods. (pp. 201 pgs.). Crican, Romania
- (3) Schwab, E. D., (1994). Algebraic Structures. Rings. (pp. 103 pgs). Multiprint, Romania

### BOOK (in preparation)

- (4) Schwab, E. D., (2012). Mobius Categories and Combinatorial Inverse Monoids.  
[http://www.math.utep.edu/lecture\\_notes/](http://www.math.utep.edu/lecture_notes/)

### JOURNAL ARTICLES PUBLISHED (IN PRESS)

- [1] Schwab, E. D., (2012). Inverse Semigroups Generated by Group Congruences. The Möbius Function.(in press) *To appear in Algebra and Discrete Mathematics. Accepted on 08/01/2012.*
- [2] Schwab, E. D., (2012). The Reduced Clifford Category of the Kachel Semigroup on n Letters (in press) *To appear in Journal of Algebra and its Applications. Accepted on 02/22/2012.*  
<http://www.worldscinet.com/jaa/accepted.shtml>
- [3] Schwab, E. D., (2012). The Free Monogenic Inverse Semigroup and the Bicyclic Multiplication (in press). *To appear in Annales des Sciences Mathematique du Quebec. Accepted on 03/20/2012*
- [4] Schwab, E. D., Schwab, E., (2011). Quantum Logic, Dagger Kernel Categories and Inverse Baer\*-Categories (in press). *To appear in Order / Springer. Online first 03/29/2011*  
<http://www.springerlink.com/content/100324/?Content+Status=Accepted>
- [5] Schwab, E. D., (2011). Binary Matrices as Morphisms of a Triangular Category. *Journal of Combinatorics and Number Theory., vol 3 ( no.2), 113–122.*
- [6] Schwab, E. D., Stoianov, G. \*, (2011). A Dirichlet Analogue of the Free Monogenic Inverse Semigroup via Mobius Inversion. *Rocky Mountain Journal of Mathematics, vol 41 ( no.5), 1701 - 1710.*
- [7] Schwab, E. D., Macedo, A. \*, (2011). Maximal Elements and their Group-Like Set. *Annals. Computer Science Series, Tibiscus University, vol 9 (no.1), 107-114.*
- [8] Schwab, E. D., (2010). On Fibonacci and Thue-Morse Words. *Journal of Automata, Languages and Combinatorics, vol 15 (no.3/4), 285-295.*
- [9] Schwab, E. D., (2010). Generalized Arithmetical Functions of Three Variables. *Int. Journal of Number Theory, vol.6 (no.7), 1689-1699.*
- [10] Schwab, E. D., (2010). On Incidence Algebras of Combinatorial Inverse Monoids. *Communications in Algebra, vol.38 (no.5), 1779-1789.*

- [11] Schwab, E. D., **(2009)**. The Möbius Category of a Combinatorial Inverse Monoid with Zero. *Annales des Sciences Mathématiques du Québec*, vol.33 (no.1), 93-113.
- [12] Schwab, E. D., **(2009)**. A Partial Order on Bipartite Graphs with  $n$  Vertices. *Annals. Computer Science Series, Tibiscus*, vol 7 (no.1), 315-324.
- [13] Schwab, E. D., Bede, B., Nobuhara, H., Rudas, I.J., **(2009)**. Approximation by Shepard Type Pseudo-Linear Operators and Applications to Image Processing. *Int. Journal of Approx. Reasoning, Elsevier*, 50, 21-36.
- [14] Schwab, E. D., Haukkanen P., **(2008)**. A Unique Factorization in Commutative Möbius Monoids. *Int. Journal of Number Theory, World Scientific*, vol. 14 (no.4), 549-561.
- [15] Schwab, E. D., Mendez, O., Popescu, L., **(2008)**. Inner Separation Structures for Topological Spaces. *Balkan Journal of Geometry and its Appl*, vol 13 (no.2), 59-65.
- [16] Schwab, E. D., **(2008)**. Strictly Increasing Sequences of Integers and the Möbius Inversion Formula. *JP J. of Algebra, Number Th.& Appl.*, vol 11 (no.1), 1-14.
- [17] Schwab, E. D., **(2008)**. The Möbius Category of a Semilattice of Groups. *Italian Journal of Pure and Appl. Math*, 24, 121-134.
- [18] Schwab, E. D., Romero E.\* , **(2006)**. On the Combinatorial Inverse Monoid  $IO_3$ . *Anale Univ. Tibiscus*, vol.4 (no 1), 213-227.
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- [21] Schwab, E. D., **(2004)**. Möbius Categories as Reduced Standard Division Categories of Combinatorial Inverse Monoids. *Semigroup Forum, Springer-Verlag*, 69, 30-40.
- [22] Schwab, E. D., **(2004)**. The Möbius Category of Some Combinatorial Inverse Semigroups. *Semigroup Forum, Springer-Verlag*, 69, 41-50.
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- [40] Schwab, E. D., **(1991)**. Completely Additive and Discriminative Convolutions, *Analele Univ. Oradea*.vol 1, 143-148.
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- [49] Schwab, E. D., Bede, B., Nobuhara, H., (2007). Multichannel Image Decomposition by Using Pseudo-Linear Harr Wavelets. (VI 17-20). *Proceeding of 2007 IEEE International Conference on Image Processing, San Antonio, Texas*.
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