

List of Publications¹

Susanne Saminger-Platz

The publications are grouped according to categories. Within these categories, the papers are in chronological order starting with the most recent publications.

Books

1. S. Saminger, *Aggregation in Evaluation of Computer-Assisted Assessment*. Volume C 44 of Schriftenreihe der Johannes-Kepler-Universität Linz. Universitätsverlag Rudolf Trauner, 2005. ISBN 3-85487-782-X. 142 pages (updated version of PhD Thesis published as book).

Theses

1. S. Saminger-Platz, *Aggregation Functions — Constructions, Characterizations, and Functional Equations*. Habilitation Thesis, Johannes Kepler Universität Linz, January 2003. 324 pages (collection of articles together with an introductory part of about 60 pages).
2. S. Saminger, *Aggregation in Evaluation of Computer-Assisted Assessment*. PhD Thesis, Johannes Kepler Universität Linz, September 2003. 110 pages.
3. S. Saminger, *Charakterisierung vulkanischer Glasaschen mittels Vergleichender Neutronenaktivierungsanalyse und Elektronenstrahlmikrosondenanalyse*, Master's Thesis, Technical University Vienna, December 1999. 140 pages.

Contributions to Edited Volumes

1. E.P. Klement, R. Mesiar, A. Mesiarová-Zemánková, and S. Saminger-Platz. Logical connectives for granular computing In W. Pedrycz, A. Skowron, and V. Kreinovich, editors. *Handbook of Granular Computing* John Wiley & Sons, Chichester, pp. 205–224, 2008.
2. S. Saminger, P. Sarkoci, B. De Baets. The dominance relation on the class of continuous ordinal sum t-norms. In H.C.M. de Swart, E. Orłowska, M. Roubens, and G. Schmidt, editors, *Theory and Applications of Relational Structures as Knowledge Instruments II*, Lecture Notes in Computer Science, pp. 337–357. Springer, 2006.
3. S. Saminger, U. Bodenhofer, E.P. Klement, and R. Mesiar. Aggregation of fuzzy relations and preservation of transitivity. In H.C.M. de Swart, E. Orłowska, M. Roubens, and G. Schmidt, editors, *Theory and Applications of Relational Structures as Knowledge Instruments II*, Lecture Notes in Computer Science, pp. 187–208. Springer, 2006.
4. U. Bodenhofer, J. Küng, S. Saminger. Flexible query answering using distancebased fuzzy relations. In H.C.M. de Swart, E. Orłowska, M. Roubens, and G. Schmidt, editors, *Theory and Applications of Relational Structures as Knowledge Instruments II*, Lecture Notes in Computer Science, pp. 209–230. Springer, 2006.

Papers in Refereed International Journals

1. M. Kauers, V. Pillwein, S. Saminger-Platz. Dominance in the family of Sugeno-Weber t-norms. (submitted).
2. S. Saminger-Platz, C. Sempì. A primer on triangle functions II. (submitted).

¹by August 2010

3. S. Saminger-Platz, B. De Baets, H. De Meyer. Differential inequality conditions for dominance between continuous Archimedean t-norms. *Mathematical Inequalities & Applications*, vol. 12, pp. 191–208, 2009.
4. S. Saminger-Platz. The dominance relation in some families of continuous Archimedean t-norms and copulas. *Fuzzy Sets and Systems*, vol. 160, pp. 2017–2031, 2009 (doi:10.1016/j.fss.2008.12.009).
5. F. Durante, S. Saminger-Platz, P. Sarkoci. Rectangular patchwork for bivariate copulas and tail dependence. *Communications in Statistics — Theory and Methods*, vol. 38, pp. 2515–2527, 2009.
6. J.J. Quesada-Molina, S. Saminger-Platz, C. Sempi. Quasi-copulas with a given sub-diagonal section. *Nonlinear Analysis*, vol. 69, pp. 4654–4673, 2008 (doi:10.1016/j.na.2007.11.021).
7. S. Saminger-Platz, E. P. Klement, R. Mesiar. On extensions of triangular norms on bounded lattices. *Indagationes Mathematicae*, vol. 19, no. 1, pp. 135–150, 2008.
8. S. Saminger-Platz, C. Sempi. A primer on triangle functions I. *Aequationes Mathematicae*, vol. 76, pp. 201–240, 2008.
9. F. Durante, S. Saminger-Platz, P. Sarkoci. On representations of 2-increasing binary aggregation functions. *Information Sciences*, vol. 178, pp. 4634–4541, 2008.
10. S. Saminger-Platz, B. De Baets, H. De Meyer. A generalization of the Mulholland inequality for continuous Archimedean t-norms. *Journal of Mathematical Analysis and Applications*, vol. 345, pp. 607–614, 2008 (doi:10.1016/j.jmaa.2008.03.045).
11. S. Saminger-Platz, R. Mesiar, D. Dubois. Aggregation Operators and Commuting. *IEEE Transactions on Fuzzy Systems*, vol. 15, no. 6, pp. 1032–1045, 2007 (doi:10.1109/TFUZZ.2006.890687).
12. K. Maes, S. Saminger, B. De Baets. Representation and construction of self-dual aggregation operators. *European Journal of Operation Research*, vol. 177, pp. 472–487, 2007.
13. S. Saminger, B. De Baets, H. De Meyer. On the dominance relation between ordinal sums of conjunctors. *Kybernetika*, vol. 42, no. 2, pp. 337–350, 2006.
14. S. Saminger. On ordinal sums of triangular norms on bounded lattices. *Fuzzy Sets and Systems*, vol. 157, no. 10, pp. 1403–1416, 2006.
15. R. Mesiar and S. Saminger. Domination of ordered weighted averaging operators over t-norms. *Soft Computing*, vol. 8, pp. 562–570, 2004.
16. S. Saminger and R. Mesiar. A general approach to decomposable bi-capacities. *Kybernetika*, vol. 39, no. 5, pp. 631–642, 2003.
17. S. Saminger, R. Mesiar, and U. Bodenhofer. Domination of aggregation operators and preservation of transitivity. *Internat. J. Uncertain. Fuzziness Knowledge-Based Systems*, vol. 10/s, pp. 11–35, 2002.
18. S. Saminger. A short review on concepts of similarity. *Journal of Electrical Engineering*, vol-52(10/s), pp. 12–14, 2001.
19. S. Saminger, C. Peltz, M. Bichler. South Aegean volcanic glass — separation and analysis by INAA and EPMA. *J. Radioanal. Nucl. Chem.*, vol. 245, pp. 375–383, 2000.

Papers in Proceedings of Conferences with Peer Review

1. F. Durante, S. Saminger-Platz, P. Sarkoci. On patchwork techniques for 2-increasing aggregation functions and copulas. In *Soft methods for handling variability and imprecision*, (D. Dubois, M.A. Lubiano, H. Prade, M.Á. Gil, P. Grzegorzewski, and O. Hryniewicz, Eds.), Advances in Soft Computing, Springer, Berlin, 2008, pp. 349–356. *Proceedings of the 4th Int. Conf. on Soft Methods in Probability and Statistics, Toulouse (France)*, 2008.
2. S. Saminger, P. Sarkoci. Dominance of ordinal sums of T_L and T_P . In *Proceedings of the 5th Int. Conf. in Fuzzy Logic and Technology, Vol. I, Ostrava (Czech Republic)*. pp. 35–39, 2007.
3. S. Saminger, B. De Baets, H. De Meyer. Mulholland’s inequality and differential conditions for strict t-norms. In *Proceedings of 4th International Summer School on Aggregation Operators, Ghent (Belgium)*. pp. 71–76, 2007.
4. G. Mayrhofer, S. Saminger, W. Windsteiger. CreaComp: Computer-supported experiments and automated proving in learning and teaching mathematics. In *Proceedings of the 8th International Conference on Technology in Mathematics Teaching, Hradec Kralov (Czech Republic)*. 5 pages 2007.
5. G. Mayrhofer, S. Saminger, W. Windsteiger. CreaComp: Experimental Formal Mathematics for the Classroom. In *Symbolic Computation and Education* S.Li, D. Wang, J.-Z. Zhang (Eds.), World Scientific Publishing Co, Singapore, New Jersey, pp. 94–114, 2007.
6. S. Saminger, E. P. Klement, R. Mesiar. A note on ordinal sums of t-norms and t-subnorms on bounded lattices. In *Proceedings of 11th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Paris (France)*. pp. 664–670, 2006.
7. E. P. Klement, R. Mesiar, S. Saminger. Remarks on residuated lattices. In *Proceedings of International conference “The Logic of Soft Computing IV” and Fourth workshop of the ERCIM working group on soft computing, Ostrava (Czech Republic)*, pp. 13–18, 2005.
8. S. Saminger, B. De Baets, H. De Meyer. The domination relation between continuous t-norms. In *Proceedings of Joint 4th Int. Conf. in Fuzzy Logic and Technology and 11th French Days on Fuzzy Logic and Applications, Barcelona (Spain)*. pp. 247–252, 2005.
9. S. Saminger, E. P. Klement, R. Mesiar. A note on ordinal sums of t-norms on bounded lattices. In *Proceedings of Joint 4th Int. Conf. in Fuzzy Logic and Technology and 11th French Days on Fuzzy Logic and Applications, Barcelona (Spain)*. pp. 385–388, 2005.
10. K. Maes, S. Saminger, B. De Baets. On the characterization of self-dual aggregation operators. In *Proceedings of Joint 4th Int. Conf. in Fuzzy Logic and Technology and 11th French Days on Fuzzy Logic and Applications, Barcelona (Spain)*. pp. 159–164, 2005.
11. S. Saminger, K. Maes, B. De Baets. Aggregation of T -transitive reciprocal relations. In *Proceedings of Summer School on Aggregation Operators, Università della Svizzera italiana, Lugano (Swiss)*. pp. 113–118, 2005.
12. S. Saminger. Aggregation of bi-capacities. In *Proceedings of 10th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Perugia (Italy)*, pp. 335–342, 2004.
13. R. Mesiar and S. Saminger. Commuting operators. In *Proceedings of 3rd International Conference in Fuzzy Logic and Technology, Zittau (Germany)*, pp. 308–311, 2003.
14. R. Mesiar and S. Saminger. Decomposable bi-capacities. In *Proceedings of International Summer School on Aggregation Operators and their Applications, Alcalá de Henares (Spain)*, pp. 155–158, 2003.

15. S. Saminger. MeetMATH — visualizations and animations in a didactic framework. In: M. Borovcnik und H. Kautschitsch (Hrsg.), *Technology in Mathematics Teaching (Special groups and working groups)*. *Proceedings of ICTMT 5, Klagenfurt (Austria)*, Band 26 der Schriftenreihe Didaktik der Mathematik, pp. 217–222, öbv & hpt Verlagsgesellschaft, 2002.

Extended Abstracts

1. F. Durante, S. Saminger-Platz, P. Sarkoci. Patchwork techniques for constructing bivariate copulas. In *Abstracts of the First Summer School on Copulas, Linz (Austria)*, pp. 36–37, 2008.
2. S. Saminger-Platz, E.P. Klement, R. Mesiar. On extensions of monotone commutative monoids on bounded lattices. In *Abstracts of the 76th Workshop on General Algebra, Linz (Austria)*, p. 7, 2008.
3. S. Saminger-Platz. Triangle functions \dot{U} – what they are and what they are good for?. In *Abstracts of the 9th International Conference on Fuzzy Sets Theory and its Applications (FSTA 2008), Liptovský Jan (Slovakia)*, pp. 16–17, 2008.
4. J.J. Quesada-Molina, S. Saminger, C. Sempi. Quasi-copulas with given sub-diagonal sections. In *Abstracts of the 6th Conference on Multivariate Distributions with Fixed Marginals*, p. 68, 2007.
5. S. Saminger. On constructions and boundaries of some type of 2-increasing functions. In *Abstracts of the 6th Conference on Multivariate Distributions with Fixed Marginals*, pp. 75–76, 2007.
6. J.J. Quesada Molina, S. Saminger, C. Sempi. Symmetric copulas with given sub-diagonal sections. In *Proceedings of 28th Linz Seminar on Fuzzy Set Theory, Linz (Austria)*, pp. 89–90, 2007.
7. S. Saminger, C. Sempi. Triangle functions — a way to bridge gaps?. In *Proceedings of 28th Linz Seminar on Fuzzy Set Theory, Linz (Austria)*, pp. 102–103, 2007.
8. S. Saminger, D. Dubois, R. Mesiar. On consensus functions in the bipolar case. In *Proceedings of 27th Linz Seminar on Fuzzy Set Theory, Linz (Austria)*, pp- 116–119, 2006.
9. S. Saminger. Aggregation of extensional hulls and domination. In *Abstracts of 7th International Conference on Fuzzy Sets Theory and its Applications (FSTA 2004), Liptovský Ján (Slovakia)*, pp. 92–93, 2004.
10. S. Saminger. Special operators dominating continuous Archimedean t-norms. In *Proceedings of 24th Linz Seminar on Fuzzy Set Theory, Linz (Austria)*, pp. 84–87, 2003.
11. S. Saminger, U. Bodenhofer. Aggregation in evaluation of multiple-response-questions. In *Abstracts of 6th International Conference on Fuzzy Sets Theory and its Applications (FSTA 2002), Liptovský Ján (Slovakia)*, pp. 110–111, 2002.
12. U. Bodenhofer, S. Saminger. Transitivity-preserving aggregation of fuzzy relations. In *Abstracts of 6th International Conference on Fuzzy Sets Theory and its Applications (FSTA 2002), Liptovský Ján (Slovakia)*, pp. 36–37, 2002.
13. S. Saminger. T -transitivity and domination. In *Proceedings of 23rd Linz Seminar on Fuzzy Set Theory, Linz (Austria)*, pp. 55–59, 2002.

Editorial Work

- F. Durante, R. Mesiar, and S. Saminger-Platz. Editorial to the special issue devoted to “Copulas, measures and integrals”. *Inform. Sci.*, 179(17):2861–2862, 2009.
- U. Bodenhofer, B. De Baets, E. P. Klement, and S. Saminger-Platz, editors. The Legacy of 30 Seminars — Where Do We Stand and Where Do We Go? Abstracts of the 30th Linz Seminar on Fuzzy Set Theory. Johannes Kepler University Linz 2009.