

LIST OF PUBLICATIONS

1 Journal Articles

Tigran Mirzoev and **Tzvetalin S. Vassilev** (2010). Quadratic Time Computable Instances of MaxMin and MinMax Area Triangulations of Convex Polygons. *Serdica Journal of Computing*. 4(3): 335–348.

J. Mark Keil and **Tzvetalin S. Vassilev** (2010). Approximating the MaxMin and MinMax Area Triangulations using Angular Constraints. *Serdica Journal of Computing*. 4(3): 321–334.

J. Mark Keil and **Tzvetalin S. Vassilev** (2008). The relative neighbourhood graph is a part of every 30° -degree triangulation. *Information Processing Letters*. 109(2): 93–97.
(available online at: <http://dx.doi.org/10.1016/j.ip1.2008.09.006>)

J. Mark Keil and **Tzvetalin S. Vassilev** (2006). Algorithms for Optimal Area Triangulations of a Convex Polygon. *Computational Geometry: Theory and Applications*. 35(3):173–187.
(available online at: <http://dx.doi.org/10.1016/j.comgeo.2006.03.004>).

C. Sean Bohun, Olivier Dubois, Hongbin Guo, Veena B. Mendiratta, Nilima Nigam, Kostyantyn Stepankevych, **Tzvetalin Vassilev** (2004). Modelling Quality and Warranty Cost. *Canadian Applied Mathematics Quarterly*. 12(1): 37–66.
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Brett Stevens, Paul Buskell, Paule Ecimovic, Cristian Ivanescu, Abid Muslim Malik, Anamaria Savu, **Tzvetalin S. Vassilev**, Helen Verrall, Boting Yang, and Zhiduo Zhao (2002). Solution of an outstanding conjecture: the non-existence of universal cycles with $k = n - 2$. *Discrete Mathematics*. 258(1–3): 193–204
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2 Conference papers

T. Mirzoev and **Tzvetalin S. Vassilev** (2007). New Results on Optimal Area Triangulations of Convex Polygons. *Proceedings of the XII Encuentros de Geometría Computacional*, Valladolid, Spain, June 25–27, 2007.

J. Mark Keil and **Tzvetalin S. Vassilev** (2005). Optimal Area Triangulation with Angular Constraints. *Proceedings of the XI Encuentros de Geometría Computacional*, Santander, Spain, June 27–29, 2005, Pages 15–22.

J. Mark Keil and **Tzvetalin S. Vassilev** (2005). The relative neighbourhood graph is a part of every 30° -degree triangulation. *Proceedings of the 21st European Workshop on Computational Geometry*, Eindhoven, The Netherlands, 9–11 March 2005. Pages 9–12.
(available online at: <http://www.win.tue.nl/EWCG2005/Proceedings/3.pdf>).

J. Mark Keil and **Tzvetalin S. Vassilev** (2003). An Algorithm for the MaxMin Area Triangulation of a Convex Polygon. *Proceedings of the 15th Canadian Conference on Computational Geometry*, Halifax, 11–13 August 2003. Pages 145–149.

(available online at: <http://www.cccg.ca/proceedings/2003/19.pdf>).

3 Monographs

Tzvetalin S. Vassilev (2009). *Optimal Area Triangulation of Planar Point Sets*. VDM Verlag, April 2009.

4 Theses

Tzvetalin S. Vassilev (2005). *Optimal Area Triangulation*. Ph.D. Thesis, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, October 2005.

Tzvetalin S. Vassilev (1994). *Modelling of Digital Systems Using Petri Nets* (in Bulgarian). M.Sc. Thesis, Technical University, Sofia, Bulgaria, June 1994.

5 Non-refereed papers

J. Mark Keil and **Tzvetalin S. Vassilev** (2004). Optimal Area Triangulation with Angular Constraints (Extended abstract, presented orally). *Proceeding of the 14th Annual Fall Workshop on Computational Geometry*, Cambridge, Massachusetts, USA, November 19–20, 2004. Pages 39–40.

(available online at: <http://cgw2004.csail.mit.edu/talks/13.pdf>).

Surrey Kim, Hongwei Long, Weiguang Shi, Randall Pyke, Lang Wu, Stanislava Peker, Benjamin Chan, Radu Haiduc, Andrei Maxim, Vilen Abramov, Bo Zeng, Pengpeng Wang, Robert Liao, Yury Petrachenko, Yulia Romaniuk, Mengzhe Wang, Zhiang Wang, Mohammad Ali Yassaei, Gabriel Mititica, Shijun Song, Xuekui Zhang, Song Li, **Tzvetalin S. Vassilev**, Nancy Azer, Mahin Salmani, Jiaping Zhu (2004). Analyzing network Traffic for Malicious Hacker Activity. *Proceedings of the 8th Annual Industrial Problem Solving Workshop*, Vancouver, May 17–21, 2004. Pages 25–36.

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Randall Pyke, Nancy Azer, Karel Casteels, Zhu Jiaping, Yury Petrachenko, Mahin Salmani, **Tzvetalin Vassilev**, Mengzhe Wang, Pengpeng Wang, Mohammed Ali Yassaei, Bo Zeng (2004). Path Planning for an Autonomous Robot. *Proceedings of the 7th PIMS-MITACS Graduate Industrial Mathematical Modelling Camp*, Victoria, May 10–14, 2004. Pages 40–54.

(available online at: <http://www.pims.math.ca/publications/proceedings/gimmc04.pdf>).

C. Sean Bohun, Olivier Dubois, Hongbin Guo, Veena B. Mendiratta, Nilima Nigam, Kostyantyn Stepankevych, **Tzvetalin Vassilev** (2003). Modelling Quality and Warranty Cost. *Proceedings of the 7th Annual Industrial Problem Solving Workshop*, Calgary, May 25–29, 2003. Pages 25–47.

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Michael Baumann, Chris Bose, Lorraine Dame, Isabelle Dechene, Maria Inez Goncalves, Robert Israel, Edward Keyes, Frithjof Lutscher, David Lyder, Colin Macdonald, Jenny McNulty, Joy Morris, Nancy Ann Neudauer, Benjamin Ong, Robert Piché, Arunas Salkauskas, Karen Seyffarth, Brett Stevens, **Tzvetalin Vassilev**, Brian Wetton, Fabien Youbissi (2002). Stitching IC Images. *Proceedings of the 6th Annual Industrial Problem Solving Workshop*, Vancouver, May 27–31, 2002. Pages 1–26. (available online at: <http://www.pims.math.ca/publications/proceedings/ipsw6.pdf>).

Brett Stevens, Lorraine Dame, Charles Fortin, Jingxiang Luo, Huamei Yin, **Tzvetalin Vassilev**, Qingze Zou (2002). Software Testing Using t-covering. *Proceedings of the 5th PIMS Graduate Industrial Math Modelling Camp*, Vancouver, May 18–23, 2002. Pages 33–50. (available online at: <http://www.pims.math.ca/publications/proceedings/gimmc02.pdf>).

Tzvetalin Vassilev (2002). Optimal Area Triangulation. *Proceedings of the 14th Annual Graduate Symposium*, Saskatoon, 11 April 2002. Pages 1–10.

Tzvetalin Vassilev (2001). Exclusion regions for the MWT (Minimum Weight Triangulation) in the L_1 and L_∞ metrics. *Proceedings of the 13th Annual Graduate Symposium*, Saskatoon, 12 April 2001. Pages 1–10.

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6 Posters

Tzvetalin S. Vassilev (2004). Polynomially Computable Approximations of Optimal Area Triangulations (Poster, presented orally). 6th MITACS Annual Conference, Halifax, 9–12 June 2004.

Tzvetalin S. Vassilev (2003). An Algorithm for the MaxMin Area Triangulation of a Convex Polygon (Poster, presented orally). 2003 Federated Computing Research Conference and 19th Annual ACM Symposium on Computational Geometry, San Diego, California, 7–11 June 2003.