

List of Papers

1. Refereed Papers

- [1] W. Rossman and M. Yasumoto, *Weierstrass representation for semi-discrete minimal surfaces, and comparison of various discretized catenoids*, Journal of Math-for-Industry **4B** (2012), 109-118.
- [2] M. Yasumoto, *Discrete maximal surfaces with singularities in Minkowski space*, Differential Geometry and its Application **43** (2015), 130-154.
- [3] E. Güler, S. Konnai and M. Yasumoto, *Bour surface companions in non-Euclidean space forms*, Proceedings of the International Conference on Geometry, Integrability and Quantization **17** (2016), 256-269.
- [4] M. Yasumoto, *Semi-discrete surfaces of revolution*, Kobe Journal of Mathematics **34** (2017), 13-26.
- [5] W. Rossman and M. Yasumoto, *Discrete linear Weingarten surfaces and their singularities in Riemannian and Lorentzian spaceforms*, Advanced Studies in Pure Mathematics **Vol. 78** (2018), 383-410.
- [6] C. Müller and M. Yasumoto, *Semi-discrete constant mean curvature surfaces with singularities in Minkowski space*, Proceedings of the International Conference on Geometry, Integrability and Quantization **18** (2017), 191-202.
- [7] M. Yasumoto, *Weierstrass-type representations for timelike surfaces and their discretization*, Advanced Studies in Pure Mathematics **Vol. 78** (2018), 449-469.
- [8] Y. Ogata and M. Yasumoto, *Construction of discrete constant mean curvature surfaces in Riemannian spaceforms and applications*, Differential Geometry and its Application **54**, Part A (2017), 264-281.
- [9] W.Y. Lam and M. Yasumoto, *Trivalent maximal surfaces in Minkowski space*, In: Cañadas-Pinedo M., Flores J., Palomo F. (eds) *Lorentzian Geometry and Related Topics. GELOMA 2016*, Springer Proceedings in Mathematics & Statistics **Vol. 211** (2018), 169-184.
- [10] W. Rossman and M. Yasumoto, *Semi-discrete linear Weingarten surfaces and their singularities in Riemannian and Lorentzian spaceforms*, Osaka Journal of Mathematics **57** (2020), 177-193 .
- [11] M. Yasumoto, *Semi-discrete maximal surfaces with singularities in Minkowski space* to appear in Springer Proceedings in Mathematics & Statistics.
- [12] W. Rossman, 安本真士, 離散曲面の微分幾何, 日本数学会『数学』, **73-1** (2021).

2. Book Chapter

- [13] M. Yasumoto, *Two topics in discrete differential geometry of surfaces in Euclidean space*.

3. Preprints

- [14] J. Cho, K. Naokawa, Y. Ogata, M. Pember, W. Rossman and M. Yasumoto, *Discretization of isothermic surfaces in Lie sphere geometry* (268 pages).
- [15] M. Pember, D. Polly and M. Yasumoto, *Discrete Weierstrass-type representations* (15 pages).

4. In Preparation

- [16] M. Yasumoto, *Construction of discrete constant mean curvature surfaces in Minkowski space and their singularities*.

[17] M. Yasumoto, *Discrete timelike minimal surfaces and discrete wave equations*.

[18] W. Carl and M. Yasumoto, *The semi-discrete DPW method*.

5. Non-refereed Papers

[19] 安本真士, *Weierstrass representation for semi-discrete minimal surfaces*, 第59回幾何学シンポジウム予稿集 (2012), 27-29.

[20] M. Yasumoto, *Weierstrass representation for semi-discrete minimal surfaces, and comparison of three discretized catenoids*, COE Lecture Note Vol. 41 (2012), p.68.

[21] 安本真士, *Weierstrass representation for semi-discrete minimal surfaces*, 第9回数学総合若手研究会テクニカルレポート (2013), 105-108.

[22] M. Yasumoto, *Discrete maximal surfaces with singularities in Minkowski space*, COE Lecture Note Vol. 51 (2013), p.73.

[23] 安本真士, *ミンコフスキー空間内の特異点を持つ離散極大曲面について*, 第10回数学総合若手研究会テクニカルレポート (2014), 213-216.

[24] 安本真士, *Weierstrass representation for semi-discrete minimal surfaces*, RIMS Kokyuroku. No.1868 (2013), 121-130.

[25] 安本真士, *特異点を持つ曲面の離散化*, 第61回幾何学シンポジウム予稿集 (2014), 34-37.

[26] W. Rossman, 安本真士, *離散線形 Weingarten 曲面について*, 福岡大学微分幾何研究会 2015 記録集 (2016), 1-11.

[27] 安本真士, *三価グラフの極大曲面*, 第63回幾何学シンポジウム予稿集 (2016), 157-160.

[28] M. Yasumoto, *Discrete linear Weingarten surfaces with singularities: a survey*, Proceedings of The 21st International Workshop on Hermitian Symmetric Spaces and Submanifolds **21** (2018), 43-51.

[29] W. Rossman, 安本真士, *4色定理の証明 -小さな誤りから大きな問題への道-*, 数学セミナー (日本評論社), 2018年9月号, 43-47.

[30] 安本真士, *3次元ミンコフスキー空間内の離散空間的平均曲率一定曲面*, RIMS kokyuroku. **No.2152**, 1-15.