

PUBLICATIONS

1. Shi-Mei Ma, Jun Ma, Jean Yeh, and Yeong-Nan Yeh. Excedance-type polynomials, gamma-positivity and alternatingly increasing property. *European Journal of Combinatorics*, 118:103869, 2024
2. Shi-Mei Ma, Hao Qi, Jean Yeh, and Yeong-Nan Yeh. Positivity of Narayana polynomials and Eulerian polynomials. *Advances in Applied Mathematics*, 154:102656, 2024
3. Shi-Mei Ma, Hao Qi, Jean Yeh, and Yeong-Nan Yeh. Commuting eulerian operators. *Discrete Applied Mathematics*, 342:355–361, 2024
4. Shi-Mei Ma, Hao Qi, Jean Yeh, and Yeong-Nan Yeh. Stirling permutation codes. *Journal of Combinatorial Theory, Series A*, 199:105777, 2023
5. Jianping Li, Junran Lichen, Wencheng Wang, Jean Yeh, YeongNan Yeh, Xingxing Yu, and Yujie Zheng. 1-line minimum rectilinear steiner trees and related problems. *Journal of Combinatorial Optimization*, 44(4):2832–2852, Nov 2022
6. Roberta Rui Zhou, Jean Yeh, and Fuquan Ren. Context-Free Grammars for Several Triangular Arrays. *Axioms*, 11(6), 2022
7. Shi-Mei Ma, Jun Ma, Jean Yeh, and Yeong-Nan Yeh. Eulerian pairs and Eulerian recurrence systems. *Discrete Mathematics*, 345(3):112716, 2022
8. Goong Chen, Jing Yang, Alexey Sergeev, Mingwei Wang, Chunqiu Wei, Jean Yeh, Philip J. Morris, Noah J. Fournier, Yining Chen, Xingong Cheng, Donghui Yang, Shuhuang Xiang, and Marlan O. Scully. Coupled crash mechanics and biomechanics of aircraft structures and passengers. *Communications in Nonlinear Science and Numerical Simulation*, 101:105850, 2021
9. Chunqiu Wei, Goong Chen, Alexey Sergeev, Jean Yeh, Jianhua Chen, Junmin Wang, Shaochun Ji, Jiao Wang, Donghui Yang, Shuhuang Xiang, Xiaomin Cao, Wenying Lu, and Marlan O. Scully. Implosion of the Argentinian submarine ARA San Juan S-42 undersea: Modeling and simulation. *Communications in Nonlinear Science and Numerical Simulation*, 91:105397, 2020
10. Zhibin Du and Jean Yeh. Another simple proof of Graham and Pollak’s theorem. *Discrete Mathematics*, 343(10):111994, 2020
11. Shi-Mei Ma, Jun Ma, Jean Yeh, and Yeong-Nan Yeh. The $1/k$ -Eulerian polynomials of type B. *the Electronic Journal of Combinatorics*, 27, 2020
12. Jean Yeh, Goong Chen, Cong Gu, James “Tom” Thurman, Alexey Sergeev, Chunqiu Wei, Jing Zhu, Hichem Hajaiej, Ying-Feng Shang, Feng Zhu, and M. Tahir Mustafa. Computational modeling and forensic analysis for terrorist airplane bombing: A case study. *Engineering Fracture Mechanics*, 211:137–160, 2019
13. Hungyung Chang, Jun Ma, and Jean Yeh. Enumerations of Permutations by Circular Descent Sets. *Taiwanese Journal of Mathematics*, 23(6):1303–1315, 2019
14. Cong Gu, Chun-Ming Yang, Tai-Chia Lin, Jean Yeh, and Huixing Zhang. Positive solutions for the Kirchhoff-type problem involving general critical growth – Part II: 3D numerical solutions. *Journal of Mathematical Analysis and Applications*, 460(1):17–32, 2018
15. Huixing Zhang, Cong Gu, Chun-Ming Yang, Jean Yeh, and Juan Jiang. Positive solutions for the Kirchhoff-type problem involving general critical growth – Part I: Existence theorem involving general critical growth. *Journal of Mathematical Analysis and Applications*, 460(1):1–16, 2018
16. Mitch Phillipson, Catherine H. Yan, and Jean Yeh. Chains of length 2 in fillings of layer polyominoes. *The electronic journal of combinatorics*, 20(3), 2013

17. Pierre Bouchard, Hungyung Chang, Jun Ma, Jean Yeh, and Yeong-Nan Yeh. Value-Peaks of Permutation. *The Electronic Journal of Combinatorics*, 17(1):R46, 2010
18. Shu-Chung Liu and Jean C.-C. Yeh. Catalan Numbers Modulo 2^k . *Journal of Integer Sequences*, 13(5):Article 10.5.4, 2010

** 10 papers published prior to graduate program. Available upon request.

PUBLICATIONS (conference)

1. Junran Lichen, Jianping Li, Wencheng Wang, Jean Yeh, YeongNan Yeh, Xingxing Yu, and Yujie Zheng. On Approximations for Constructing 1-Line Minimum Rectilinear Steiner Trees in the Euclidean Plane R^2 . In Zhao Zhang, Wei Li, and Ding-Zhu Du, editors, *Algorithmic Aspects in Information and Management*, pages 49–61, Cham, 2020. Springer International Publishing