

年 級：博七

著作列表

Journal Papers

1. Chen, K.T., Liu, C.L., Huang, S.H., Shen, H.T., **Shieh, Y.K.**, Chiu, H.T. and Lu, C.L. (2018, January) CSAR: a contig scaffolding tool using algebraic rearrangements. *Bioinformatics*, 34(1): 109-111. (SCI = 5.610, Rank = 3/59 = 5.08%)
2. Ta, T.T., **Shieh, Y.K.**, Lu, C.L. (2020) Computing a longest common almost-increasing subsequence of two sequences. *Theoretical Computer Science*, 854 (16): 44-51. (SCI=0.827, Rank = 91/110 =82.27%)
3. **Shieh, Y.K.**, Shyu, S.J., Lu, C.L. and Lee, R.C.T. (2021) The exact multiple pattern matching problem solved by a reference tree approach. *Theoretical Computer Science*, 822 (1): 29-48 (SCI=0.827, Rank = 91/110=82.27%)

Conference Papers

1. **Shieh, Y.K.** and Lee, R.C.T. (2011, May) Improving the KMP algorithm by using properties of Fibonacci string. *Proceedings of the 28th Workshop on Combinatorial Mathematics and Computation Theory*, Taiwan, pp.162-166.
2. **Shieh, Y.K.** and Lee. R.C.T. (2014, April) The filtering approaches for the improved Boyer-Moore approximate string matching. *Proceedings of the 31st Workshop on Combinatorial Mathematics and Computation Theory*, Taiwan, pp. 96-102.
3. **Shieh, Y.K.** and Lee. R.C.T. (2014, December) An efficient algorithm to solve the nearest neighbor searching problem. *Proceedings of the 2014 International Computer Symposium*, Taiwan, pp. 112-121.
4. **Shieh, Y.K.** and Lee. R.C.T. (2015, May) An algorithm to the nearest neighbor string searching problem. *Proceedings of the 32nd Workshop on Combinatorial Mathematics and Computation Theory*, Taiwan, pp. 8-15.
5. **Shieh, Y.K.**, Shyu, S.J. and Lee. R.C.T. (2016, May) Exact multiple string matching problem for DNA alphabet. *Proceedings of the 33rd Workshop on Combinatorial Mathematics and Computation Theory*, Taiwan, pp. 33-42 (**Best paper award**).
6. **Shieh, Y.K.**, Shyu, S.J., Lu, C.L. and Lee, R.C.T. (2017, May) A tree approach for solving the exact multiple string matching problem. *Proceedings of the 34th*

Workshop on Combinatorial Mathematics and Computation Theory, Taiwan, pp. 33-42 (**Best paper award**).

Book chapters and books

1. **Shieh, Y.K.**, Liu, S.C. and Lu, C.L. (2020, August) Scaffolding contigs using multiple reference genomes, *Computational Biology and Chemistry*, Payam Behzadi and Nicola Bernabò, *IntechOpen*, DOI: 10.5772/intechopen.93456.
2. 李家同、劉國有、**謝一功**、侯冠維、陳庭偉 (2018)。專門為中學生寫的程式語言設計。新北市：聯經。

Paper under revision

1. **Shieh, Y.K.**, Peng, D.Y., Chen Y.H., Wu T.W. and Lu, C.L. An Integer Linear Programming Approach for Scaffolding Based on Exemplar Breakpoint Distance. *Journal of Computational Biology*, (SCI = 1.479, Rank = 63/125 = 50.4%), under revision.