103 年 3 月 通過 學術審查

年　　級：博七（96 博士班入學）

著作列表

Journal Papers: (Authors are listed in alphabetical order)

1. Wing-Kai Hon, Tsung-Han Ku, Tak-Wah Lam, Rahul Shah, Siu-Lung Tam, Sharma V. Thankachan, Jeffrey Scott Vitter: **Compressing Dictionary Matching Index via Sparsification Technique**. *Algorithmica,* 2014 (accepted and available online).
    (SCI 2012, Impact Factor: 0.448, 5-Years Impact Factor: 0.753, rank = 23/79 = 29.1% in the category of "Computer Graphics and Computer Aided Design", rank=58/283=20.5% in the category of "Applied Mathematics")

2. Wing-Kai Hon, Tsung-Han Ku, Rahul Shah, Sharma V. Thankachan, Jeffrey Scott Vitter: **Faster compressed dictionary matching.** *Theoretical Computer Science*, 475: 113-119, 2013.
    (SCI 2012, Impact Factor: 0.489, 5-Years Impact Factor: 0.697, 15 citations, rank = 30/134 = 22.4% in the category of "Computational Theory and Mathematics")

3. Wing-Kai Hon, Tsung-Han Ku, Rahul Shah, Sharma V. Thankachan, Jeffrey Scott Vitter: **Compressed text indexing with wildcards.** *Journal of Discrete Algorithms,* 19: 23-29, 2013.
    (SCI 2012, 7 citations rank = 34/134 = 25.4% in the category of "Computational Theory and Mathematics")

Conference Papers: (Authors are listed in alphabetical order)

1. Wing-Kai Hon, Tsung-Han Ku, Rahul Shah, Sharma V. Thankachan: **Space-Efficient Construction Algorithm for the Circular Suffix Tree.** In *Proceedings of Symposium on Combinatorial Pattern Matching*, pages 142-152, 2013.

2. Travis Gagie, Wing-Kai Hon, Tsung-Han Ku: **New Algorithms for Position Heap**. In *Proceedings of Symposium on Combinatorial Pattern Matching*, pages 95-106, 2013.

3. Sudip Biswas, Tsung-Han Ku, Rahul Shah, Sharma V. Thankachan: **Position-Restricted Substring Searching over Small Alphabets**. In *Proceedings of International Symposium on String Processing and Information Retrieval*, pages 29-36, 2013.

4. Wing-Kai Hon, <u>Tsung-Han Ku</u>, Chen-Hua Lu, Rahul Shah, Sharma V. Thankachan: **Efficient Algorithm for Circular Burrows-Wheeler Transform.** In *Proceedings of Symposium on Combinatorial Pattern Matching*, pages 257-268, 2012.

5. Wing-Kai Hon, <u>Tsung-Han Ku</u>, Rahul Shah, Sharma V. Thankachan, Jeffrey Scott Vitter: **Compressed Dictionary Matching with One Error**. In *Proceedings of Data Compression Conference*, pages 113-122, 2011.

Work in progress: (Authors are listed in alphabetical order)

1. Wing-Kai Hon, <u>Tsung-Han Ku</u>, Chen-Hua Lu, Rahul Shah, Sharma V. Thankachan: Succinct Indexes for Circular Patterns. Our target is to submit this result to *Algorithmica*.

   (SCI 2012, Impact Factor: 0.448, 5-Years Impact Factor: 0.753, rank = 23/79 = 29.1% in the category of "Computer Graphics and Computer Aided Design", rank=58/283=20.5% in the category of "Applied Mathematics")