Reading List

- Background Reading for Flash Memory and Solid State Disk (SSD)
  - Simulation of SSD
  - Survey of Flash Memory Algorithms and Data Structures
  - ACM Queue Papers
    - Flash Storage Today, Adam Leventhal. ACM Queue, July/August 2008.
    - Enterprise SSDs, Mark Moshayedi and Patrick Wilkison. ACM Queue, July/August 2008.

- Internals of SSD and Flash Memory
  - SSD Design
  - Flash Translation Layer
  - Flash Wear Levelling Algorithm
  - Caching Algorithm for Flash

- **Using Flash as Primary Storage Device**
  - Intel Turbo Memory: Nonvolatile disk caches in the storage hierarchy of mainstream computer systems, JEANNA MATTHEWS, SANJEEV TRIKA, DEBRA HENSGEN, RICK COULSON, and KNUT GRIMSRUD. ACM Transctions on Storage (TOS), May 2008.
  - Improving NAND Flash Based Disk Caches, Taeho Kgil, David Roberts, and Trevor Mudge. ISCA 2008.

- **Data Accessing Method for Flash Memory**
  - Tree Indexing on Flash Disks, Yinan Li, Bingsheng Hey, Qiong Luo, and Ke Yi. ICDE 2009.
  - An Efficient R-Tree Implementation over Flash Memory Storage Systems, Chin-Hsien Wu, Tei-Wei Kuo, Li Ping Chang. GIS 2003.

- **Applications Enhancements to Use Flash Memory**

- **Disk Based Caching Algorithms**
  - Karma: Know-it-All Replacement for a Multilevel cAche, Gala Yadgar, Micheal Factor, and Assaf Schuster. FAST 2007.
- On Multi-level Exclusive Caching: Offline Optimality and Why promotions are better than demotions, Binny S. Gill. FAST 2008.