Resources for literature searches
Clint Slatton, 28-Aug-05

UF Library
The UF library is an extensive and nearby resource, so take advantage of it. Often, it is helpful to check out a couple of upper-level undergraduate or introductory graduate-level textbooks on a subject for the broad/background information not provided by individual journal papers. Then use the papers to follow up on more in-depth and/or more recent research.

1. UF – full text online papers
   - The list of available full-text online articles is increasing rapidly. Take advantage of the hard work the UF library has done to let you access many Web database very rapidly.
   - Go to http://www.uflib.ufl.edu/ and follow the link to “Find”, ”Articles”
   - Then go to “Database Locator”

2. UF library – online bibliographic databases
   - Even more articles can be found if you don’t require full-text, for example, in the INSPEC database. This is very comprehensive, but just provides the citation. Sometimes the citation will be for a journal that the UF library carries, but not always. If the UF library does not carry it, consider interlibrary loan services.

3. UF library – books
   - Interlibrary loan services can be used to check out books not owned by the UF library.
   - http://www.uflib.ufl.edu/books.html

Internet
The are an increasing number of sites that provide solid information.

4. Internet – random searches
   - You can find miscellaneous discussions of research conducted by various research groups by typing keywords into www.google.com. Also be aware of the new search engine http://scholar.google.com/ for more scholarly sources.
   - Sometimes you also find papers the authors have uploaded to their personal Web sites, however that is hit-or-miss.
   - The Web is a good place to start to get a quick feel for a topic. For example, what is being done?, who is doing it?, and what are the basic techniques? It also helps to show what keywords map best to your topic.

5. Internet – bibliography databases
   - There are several of these. For example, one on airborne lidar http://www.geo.unizh.ch/rsl/services/bibliographies/lidar/index.html
   - The ASPL database on lidar remote sensing
6. Internet – more in depth

- Access to full-text articles is becoming more common. The ones that will be most useful to you are
  
i. IEEE
    
    1. electrical engineering: signal processing, pattern recognition, image processing, microwave scattering
       http://ieeexplore.ieee.org/search/advsearch.jsp
  
  ii. Science Direct
    
    1. science applications: hydrology, forest ecology, geomorphology. However, some journals, such as ISPRS, contain airborne lidar engineering papers.
       http://www.sciencedirect.com/
  
  iii. Optical Society of America (OSA)
    
    1. optical engineering: laser propagation, photonics
       http://www.opticsinfobase.org/
  
  iv. American Geophysical Union (AGU)
    
    1. science applications: hydrology (Water Resources Research), geology (JGR - Earth Surface), etc.
       http://www.agu.org/pubs/pubs.html
       (you have to be an AGU member to get full text I think)
  
  v. Selected ISPRS conference proceeding for airborne lidar remote sensing
  
  vi. Journal of the Acoustic Society of America
       http://scitation.aip.org/jasa/
  
  vii. Society for Industrial and Applied Mathematics (SIAM)
       http://www.siam.org/journals/

Generally, you have to be logged on through a UF machine to get full-text access to these paid-for services.