# CyberGIS Reading List

## Big Geospatial Data


## Background, Concepts and Characteristics of CyberGIS


## CyberGIS Technologies


**CyberGIS Algorithms and Methods**


**High Performance Geospatial Computing for Scientific Discoveries**


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<th>Creator Name</th>
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  (for all of Module 1)  
  By the end of the semester, the students will be able to  
  - Understand the important concepts and principles used in the Cyberinfrastructure and CyberGIS research communities.  
  - Have a relatively comprehensive overview of the CyberGIS framework with all the key elements and their structuring.  
  - Widen their vision of GIS in the emerging paradigm of big data driven research. |
| Background Knowledge | (for all of Module 1) Basic concepts and terminology of GIS and computing (e.g. data processing, programming, algorithm) |
| Resources Needed | (for all of Module 1) Theoretical module; no requirement on hardware or software |
| Work Mode | (for all of Module 1) Watching the lectures in person and reading assigned articles |
| Relation to Project | (for all of Module 1) This module is designed to lay the basic theoretical foundation for CyberGIS as a scientific discipline and to prepare students for more advanced topics such as High Performance Geocomputing. |
| Feedback Needed | (for all of Module 1) General feedback |