

# Spring 2011 CS6382

(ECSS 2.203 2:30-3:45pm MW)

Name: Ding-Zhu Du (instructor) Office: ECSS 3-611 Office Hours: 3:15-4:30 M  
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**Textbooks** : Ding-Zhu Du and Ker-I Ko, *Theory of Computational Complexity*, John-Wiley, 2000.

**Topics** :

Week 1-2: Theory of Deterministic Computation (chapter 1);  
Week 3-7: Theory of Nondeterministic Computation (chapter 2-3);  
Week 8-9: Theory of Parallel Computation (chapter 6);  
week 10-12: Theory of Probabilistic Computation (chapter 8-9);  
week 13-4: Theory of Approximate Computation (chapter 11);

**Assignments** : There will be five assignments. Four of them will be graded. Each assignment will be due at the time as shown in my homepage. **No late assignment will be accepted.**

**Examinations** : The midterm examination is on Feb. 23 and the final examination is on May 2. Both are in class (open books/notes).

**Weights of Assignments and Exams** : Each assignment 10%; the Midterm 30%; Final 30%. Grades will be assigned according to the total points as follows:  $A \geq 85 > B \geq 70 > C \geq 50$ .