

# CS 395T (SPRING 2002)

## MOBILE COMPUTING AND WIRELESS NETWORKS

YONGGUANG ZHANG

([YGZ@CS.UTEXAS.EDU](mailto:YGZ@CS.UTEXAS.EDU))

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## Read Me First

- Everything is in the Web
  - Syllabus, lecture notes, reading materials, projects, ...
  - <http://www.cs.utexas.edu/users/ygz/395T-02S>
  - Just participate, need not take notes

## Who Am I?

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- Yongguang Zhang, Adjunct Assistant Professor
- Ph.D. in Computer Sciences, 1994, Purdue
- 3rd semester in UT
  - Taught 2 grad courses in UTCS
- 1994-2000: Senior Research Scientist at HRL
  - Doing basic research for Boeing/Raytheon/GM
- My web site: <http://www.cs.utexas.edu/users/ygz>

## A New 395T Course

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- Second Time Offered in UTCS
- Flavors:
  - CS (not EE)
    - Network layer and up
  - Systems (not Theoretical)
    - Architecture, mechanisms, constructs, procedures, implication, experimentation, ...
  - Implementation Project (50% of your grade)

## What Are We Going to Learn?

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- Appreciate the system design principles in mobile computing and the paradigm shift
- Impacts on computer sciences
  - Resource management
  - Distributed computing and network protocols
  - Data/information management
  - User interfaces
- Survey the state-of-the-art research and develop new ideas

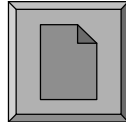
## Today's Class

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- Lecture: Introduction to Mobile Computing (45min-1hr)
- Course Matters
  - Website, syllabus, reading materials, projects, policies, ...
  - Q&A
- To Add this class:
  - Current Enrollment: 25.
  - Priority: Last year's wait list, CS Ph.D., CS Master, ECE Grad
  - Come see me this afternoon: ACES 6.240

# Introduction to Mobile Computing

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## Course Matters

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- Website
  - <http://www.cs.utexas.edu/users/ygz/395T-02S>
  - This course is largely paperless
  - Syllabus, lecture notes, reading materials, projects, ...
- Course structure
  - I will give selected lectures
  - Rest of the class meeting will be discussion of papers
    - 3-5 papers per topic
  - Individual or team projects
    - Projects will be given around 4th weeks
    - You need to spend at least 10 hours/week on this course

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## Course Matters

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- Textbook?
  - None (there isn't any good one yet)
- Reading Materials
  - See course web site for each lecture
  - “Lecture Note” (if any)
  - “Papers (Required)”
    - You are required to read all the papers in this section
    - Some will be used in course discussions
    - Some may be covered in mid-term (I may give you a narrowed-down list one week before mid-term).
  - “References (Recommended)”

## Today's Homework

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- Read the papers listed in the web site (under Lecture 01).

## Summary

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- **Mobile Computing**
  - New and exciting field
  - Many opportunities
- **We will Learn a lot in This Course**
  - Understand the state of the art
  - New ideas and new contribution
  - New ways of using mobile computing and wireless network
- **It will be Very Rewarding**

## Lots of Work to Do

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- **Be Daring!**
- **Challenge Yourself!**
- **Have Fun!**