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Emerging Computing Models and Technologies

Christof Teuscher
NBIS ECE 507
Winter 2011

Portland State
UNIVERSITY

Nuts and Bold Ideas Seminar (NBIS)
ECE 507
Winter 2011

Sessions

Sessions:	Wed, 12:00pm – 01:00pm	CRN = 45786
Quarter:	Jan 3, 2011 – Mar 13, 2011	
Holidays:	Mon, Jan 17, 2011	
Finals week:	Mar 14 – 19, 2011	
Credits:	1 (optional)	
Grading:	Pass/No pass	
Prerequisites	none	

Contact Information

Instructor:	Christof Teuscher, PhD Assistant professor Department of Electrical and Computer Engineering (ECE) http://www.teuscher-lab.com/christof
Instructor e-mail:	teaching@teuscher-lab.com
Office:	FAB 20-13 4th Avenue Building (1900 SW 4th Avenue) Suite 20
Office hours:	• 15min after class (classroom) • Tue, 9 – 10am (office) • Thu, 1 – 2 pm (office) • By appointment (office) • Online office hours: see http://www.teuscher-lab.com/teaching for details.
Course website:	http://www.teuscher-lab.com/teaching

Course Description

The idea of the Nuts and Bold Ideas Seminar is to provide an informal platform for (nuts and bold) ideas that are worth thinking about. Instigators are asked to present something different from their most recent research, paper, or talk. Ideas that challenge the status quo are of particular interest. The goal is to think big and different. The seminar is designed to foster creativity, innovation, inspiration, and to spur cross-pollination among disciplines.

How does it work?
- The instigator presents his nuts and bold ideas for about 20min. The remaining time (about 40min) is open for discussion.
- The instigator is asked to present something different from her/his most recent research, paper, or talk. Ideas that challenge the status quo are of particular interest. Think big and different, be provocative. Your ideas do by no means have to be mature. The wilder and crazier the idea, the better discussions we'll have.
- We encourage informality, openness, collaboration, vision, innovation, inspiration, and interdisciplinarity.

- Instigators are encouraged to consider the following questions (inspired by Heilmeier's catechism) in their informal presentation:
    - What's the idea? What should I tell my mom/dad/partner/cat/dog about it?
    - How is it done today, and what are the limits of current practice?
    - What's new in your approach and why do you think it will be successful?
    - Who cares?
    - If you're successful, what difference will it make?
    - What are the risks and the payoffs?
    - How much will it cost?
    - How long will it take?
    - What are the midterm and final "exams" to check for success?
- The audience is encouraged to:
    - challenge ideas in the presentation,
    - support ideas in the presentation,
    - make connections to other, disparate fields of research,
    - come up with new ideas,
    - or say anything else they want.

Who Should Take This Class?

You should take this seminar if:
- You like to think big and be creative.
- You like to think outside the box.
- You like to think across disciplines.
- You would like to get to know more people.
- You like to broaden your horizon.

You should not take this seminar if:
- You are unable to attend at least 9 out of 10 sessions.

Instructor Background

Christof Teuscher currently holds an assistant professor position in the Department of Electrical and Computer Engineering (ECE) and in the Department of Computer Science at Portland State University (PSU). He also holds an Adjunct Assistant Professor appointment in Computer Science at the University of New Mexico (UNM). Dr. Teuscher obtained his M.Sc. and Ph.D. degree in computer science from the Swiss Federal Institute of Technology in Lausanne (EPFL) in 2000 and 2004 respectively. In 2004 he became a postdoctoral researcher at the University of California, San Diego (UCSD), in 2005 a distinguished Director's Postdoctoral Fellow at Los Alamos National Laboratory, and in 2007 a Technical Staff Member. His main research interests include emerging computing architectures and paradigms, biologically-inspired computing, complex & adaptive systems, and cognitive science. Teuscher has received several prestigious awards and fellowships. For more information visit: http://www.teuscher-lab.com/christof

Required Texts

- None

Course Planning

- Please visit the seminar website: http://www.teuscher-lab.com/nuts_and_bold_ideas_seminar
- You must also sign up for the seminar mailing list:
  https://mailhost.cecs.pdx.edu/mailman/listinfo/nuts_and_bold_ideas_seminar

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Attendance Policy

- **Attendance is mandatory** if you receive credit for this seminar.
- However, life can be unpredictable, so you can miss 1 session out of 10 and still get a passing grade.
- If you miss more than one session, you will receive a non-passing grade.
- If you show up more than **10 minutes late**, you will be marked absent for that session.

Grading and Assignments

- If you receive credit for this seminar, you will receive a pass/no pass grade.
- In order to get a passing grade, you need to attend **at least 9 out of 10 sessions**.
- **No make-up assignments will be offered for missed sessions.**
- There are *no* other assignments in this class besides attending.
- You are *not* expected to be an instigator. However, if you would like to present an idea, please let me know as early as possible and I will try to accommodate you in the schedule.
- Active participation is highly encouraged, but not a requirement.

Disability Resources

If you have a disability and are in need of academic accommodations, please notify me immediately (office hours, email, phone) to arrange needed support. I will make every effort to accommodate your needs. For more information about the Disability Resource Center, see http://www.pdx.edu/iasc/drc.html.

Center for Student Health & Counseling (SHAC)

Main SHAC website: http://www.shac.pdx.edu
Suicide prevention: http://www.shac.pdx.edu/caps/suicideprevention.php