



Context-Aware Computing, Übungen (448.057)

Institut für Technische Informatik

15.10.2018



Lecturer

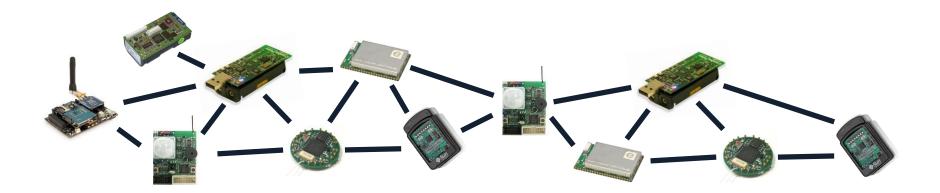
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since 2018



• 448.057 Context-Aware Computing, LU



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- Student assistants
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Context Awareness

- What is this all about?
 - Increasingly complex computer systems
 - Networks of tiny embedded devices embedded into environment and objects
 - Operating in dynamic context
 - Changing environments, system structure, user needs, ...











Context Awareness

- What is this all about?
 - CAC tries to address this challenge
 - Making sure computer systems meet their goals despite dynamic context
 - Self-organizing systems that automatically meet high-level goals
 - Loosely inspired by living organisms

 Tightly connected to the lecture (448.056)





http://en.wikipedia.org/wiki/S-bot mobile robot

- Five assignments to be implemented in NetLogo (NetLogo tutorial comes straight after this course introduction)
- Course participants will be split in groups of two
 - Slot A: 9:00 10:30, Slot B: 10:30-12:00
 - NXP Semiconductors seminar room (IE01090)
 - Group and Slot registration will be done at the end of this lecture
 - → Choose a slot and write your name on the list
 - Group registration
 - Write me an Email with your names and matriculation number
 - Untill Friday, 27.10.2018

Scheduled calendar
(Dates might change according to progress in the lecture)

	Monday, 15.10.2018	Monday, 05.11.2018	Monday, 26.11.2018	Monday, 10.12.2018	Monday, 07.01.2018	Monday, 21.01.2018
	Course Introduction	Delivery 1 st Exercise	Delivery 2 nd Exercise	Delivery 3 rd Exercise	Delivery 4 th Exercise	Delivery 5 th Exercise
Learning Unit	&	&	&	&	&	&
	NetLogo Tutorial	Tutorial 2 nd Exercise	Tutorial 3 rd Exercise	Tutorial 4 th Exercise	Tutorial 5 th Exercise	Course Evaluation
09:00						
10:30	(Plenary)					
10:30						

12:00



Exercises

- Teamwork of maximum 2 students
- Work on your own laptop (or use TU Graz infrastructure)
- Submit your assignment the day before the next class (e.g., Übung 1 must be submitted by Sunday, 04.11.2018 at 23:59 CET)
- A few teams will present their solution in front of the class
 - Groups presenting will be randomly picked
 - Both team members give an overview of their solution
 - Instructors ask questions, and <u>both</u> team members should be able to answer
- No plagiarism!



- Submission of exercises
 - Answer questions in PDF
 - Fill out group ID and student names

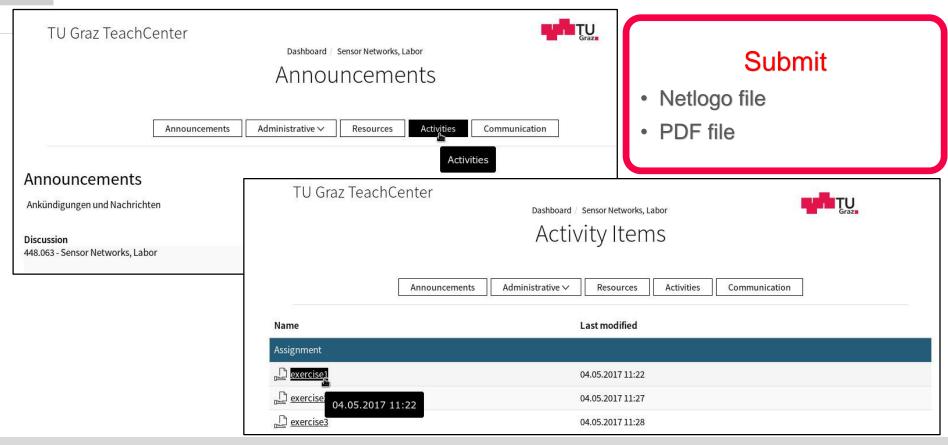
completely surrounded by other woodchips (i.e., a termite will not remove woodchips that are al-

Press "Finalize form"

ready in the mic	ddle of a pile). Does this affect the overall behaviour of the system? If yes, how?
Answer:	
Group ID:	
Stud. Names:	
Finalize Form	



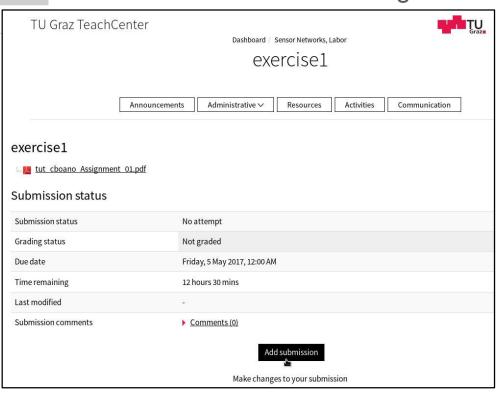
- Submission of exercises
 - Using the TeachCenter
 - Activities → Assignment → Add/Edit submission







- Submission of exercises
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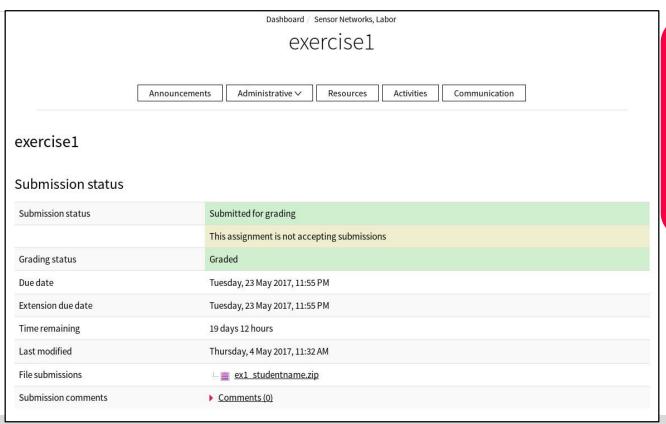


Submit

- · Netlogo file
- · PDF file



- Submission of exercises
 - Using the TeachCenter
 - Activities → Assignment → Add/Edit submission



Problems uploading?

- Send the code to <u>michael.stocker@tugraz</u> <u>.at</u> or to <u>r.thomann@tugraz.at</u>
- before the deadline!



Grading

- 50 points in total
 - 10 points for each of the five assignments
 - Late submission (within 5 days): max 5 points
 - Bonus points for the presentations
 - Up to 2 bonus points per presentation
 - Each group can present at most 2 times
- Final grade
 - 1 > 44 points
 - 2 > 37 points
 - 3 > 31 points
 - 4 > 25 points
 - 5 ≤ 25 points



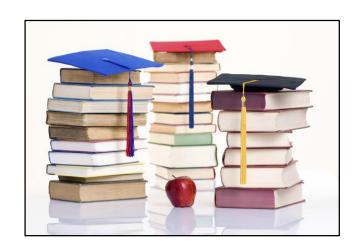


Communications

- Important announcements will be sent out via e-mail
- Newsgroup tu-graz.lv.cac
 - Questions of general interest
 - No solutions!



Knock my door or (even better) send me an e-mail!



Questions?

