General Information
We are …

● Pattern Recognition Lab (Lehrstuhl für Mustererkennung)
  ● https://www5.informatik.uni-erlangen.de
  ● 9th floor, blue computer science tower

● Lecturer
  ● Prof. Dr.-Ing. Joachim Hornegger

● Exercise organization
  ● Eva Eibenerger
  ● Jana Hutter
  ● Kerstin Müller

● Contact:
  ● mt-ticket@i5.informatik.uni-erlangen.de
We are …

● Tutors …
  ● Sina Dölfel
  ● Erkut Doganci
  ● Simon Jordan
  ● Iris Kellermann
  ● Mustafa Safak
  ● Jennifer Schatz
  ● Fatih Taban
  ● Ralf Uhlig

● … and graduate teaching assistants
  ● Theresa Bachschmidt
  ● Eva Eibenberger
  ● Jana Hutter
  ● Kerstin Müller
  ● Maria Polyanskaya

7 tutors are Medical Engineering students
Medical Engineering I

- Medical Engineering I – Medizintechnik I
  - 3 SWS lecture
  - 1 SWS exercise
  - Project work – Projektarbeit

- Lecture takes place on
  - Monday, 16:15 – 17:45 Uhr, H12
  - Thursday, 18:00 – 19:30 Uhr, H12, jede zweite Woche

- Lecture slides are available
  - http://www5.informatik.uni-erlangen.de/lectures/ws-1213/medizintechnik-mt/
  - These are slides and no lecture notes!
Grading

● No exam – Grading of a project work
● Condition of admission to project work:
  ● Continuous assessment of the submitted exercises
  ● Requirement: 50 % of all exercise points
● MTFs – MedizinTechnik Fragen
  ● Possibility to improve the grade

● Timeline:

MTFs – MedizinTechnik Fragen
Quick test in Thursday lectures

Exercises
50 % of all possible points required

Project work
graded

Christmas

End of semester
Exercises

- Exercise courses in smaller groups
- Theoretical exercise (Tafelübung) – 45 minutes
  - Introduction to little problems of medical signal and image processing
  - Introduction to programming with MATLAB
  - Resolve open questions and issues
- Practical exercises (Rechnerübung) – 45 minutes
  - „learning by doing“
  - Self dependent solving of practical exercises using MATLAB
  - Solving small problems of medical signal and image processing
  - Passive supervision:
    If you have questions/problems do not hesitate to approach the tutor
- Active attendance in the exercises is highly recommended!
Practical Exercise Sheets

- Weekly exercises for self-dependent solving
  - Duration: October till end of December 2012
  - Each Monday: Download exercise sheet from the MT I web page
  - First sheet: next Monday (22.10.2012)
  - Time to solve the exercise sheet: 2 weeks

- Task:
  - Solving problems in the field of medical engineering using MATLAB

- Practical exercise courses (Rechnerübung)
  - Intended to be supportive
  - Too short to complete the entire exercise sheet
Practical Exercise Sheets

- Submission of exercises:
  - Every Monday a new exercise sheet – 2 weeks to solve it
  - Submission via EST (https://est.informatik.uni-erlangen.de)
  - Keep the deadlines in mind!
  - No delayed submission possible!

- Copying:
  - You can ask your colleagues for advice
  - BUT: Solutions have to be independent!
  - Copying → 0 points for both
  - Mutual support ≠ Copying

Don’t …
  - … distribute files among each other!
  - … work together at the same computer!
  - … look at the solution of others!
Project Work

- Scientific working in the field of medical engineering:
  - Task: Solve a problem of medical engineering
- Elaboration of the problem and existing solutions:
  - Theoretical and practical solutions!
- Important properties:
  - Literature research, profound line of argumentation, exact referencing, …
- Consists of three parts:
  1. Scientific writing of a report
  2. Practical: Programming with MATLAB
  3. Little oral presentation in English

Organization
- Teams of 2 students
- Duration: End of December 2012 till the end of the semester
- Detailed information is provided during the exercises
MTFs – MedizinTechnik Fragen

- Quick test during Thursday lectures (10 minutes)
  - At the beginning of each Thursday lecture
  - Multiple-Choice test
  - Questions on the lecture’s content

- Improvement of grad of project work possible
  - At the end of the semester:
    - More than 50% of all possible points → Improvement of grade by 0.3
    - More than 75% of all possible points → Improvement of grade by 0.6
  - No degradation possible!
  - The grade is either improved or unchanged!

- First MTF is at Thursday, 25\(^{th}\) of October,
Questions?

MTFs – MedizinTechnik Fragen
Quick test in Thursday lectures

Exercises
50 % of all possible points required

Project work
graded

Christmas
End of semester
Organizational information
Log-In for CIP-Pools

- Access to the computers in the CIP-Pools (computer science) required for practical exercises
- When: Until Friday, 19th of October, 18h
- Where: Room 02.151-113 (CIP-Pool at the 2nd floor, blue computer science tower)
- How:
  1. Go to any computer
  2. Use username *cipan* and password *cipan*
  3. Enter all the required information and make sure that the data is correct! Just follow the instructions of the program.

- It will take some days until the access to the computers will work
Important Password

Login: mt
Password: m1213t

For exercise registration in EST
For lecture slides
Timetable

● Combinations of theoretical and practical exercises
● Please attend the exercise to which you are assigned to
● Exercise ToDo: Theoretical exercise is in English
Registration to Exercises
1. Create your account for the submission system

EST: http://est.informatik.uni-erlangen.de
Activation link will be sent to your previously provided address

An activation link has been sent to ingmar_voigt@yahoo.de

student login

matriculation number
or mail address
password

login  reset
3. Click on the link to activate your EST account

Please use the following link to activate your EST Account:
http://est.informatik.uni-erlangen.de/login.html?email=ingmar_voigt@yahoo.de&hash=4fa2e8fc7da053af45dce1c78658adce&action=activateStudent
Select the Medizintechnik lecture and type in the course password: mt1112ws
Select the tutorials, which do and do not fit well into your schedule. You can do this with the arrow buttons. The names of the exercise groups correspond to the groups on the exercise web page.
Exercise partners can be provided via matriculation number

select buddies

Please input matriculation numbers of buddies (separated by comma, space, or newline) you wish to visit the same tutorial with.

The given information is treated as wishes without commitment. The distribution of tutorials will match as much wishes as possible.

matriculation numbers

12345678

back next
Please double check the provided data before submitting!
Wichtige Hinweise für die Anmeldung

- Möglicher Zeitraum für die Anmeldung:
  von: heute, nach der Vorlesung
  bis: Samstag, 22.10.2012, 18 Uhr

  Es ist egal, ob man sich gleich nach der Vorlesung oder erst am Samstag um 17:55 Uhr anmeldet!

- Bei der Auswahl von möglichen/nicht-möglichen Übungsgruppen:
  Je mehr Gruppen als “nicht möglich” markiert werden, um so mehr steigt die Wahrscheinlichkeit, dass man trotzdem in eine dieser Gruppen eingeteilt wird.

- Wir bemühen uns sehr, alle Eure Wünsche zu berücksichtigen. Dies klappt leider nicht immer – immerhin seid Ihr über 100 Studenten

- Bei Problemen: Bitte schreibt eine E-Mail an
  mt-ticket@i5.informatik.uni-erlangen.de
Personal page

Login with your matriculation number and password to submit exercises and query your current exercise grading.

Hello Max Mustermann

GDI (WS 09/10)
- Your current score(s):
- You are not assigned to any tutorial.
- Current exercise sheets:
  - There are currently no open exercises.
- submit files
- view comments

EST: http://est.informatik.uni-erlangen.de
Login with your matriculation number and password to submit exercises and query your current exercise grading.
Personal page

Login with your matriculation number and password to submit exercises and query your current exercise grading.
● All exercises start next week. We will inform you on Sunday about your exercise group.

● Web page with FAQs:
  www5.informatik.uni-erlangen.de/lectures/ws-1213/medizintechnik-mt/

● Mail: mt-ticket@i5.informatik.uni-erlangen.de

● Please note:

● Your next steps:
  1. Exercise registration with EST: https://est.informatik.uni-erlangen.de
  2. Registration for CIP-Pool login
Vielen Dank für Ihre Aufmerksamkeit!