Fuzzy Systems
Introduction
About the lecture

Lecture dates: Thursday, 11:15 –12:45, G29-037

Information about the course:
http://www.is.ovgu.de/Teaching/SS+2019/Fuzzy+Systems.html

- Weekly lecture slides as PDF
- Also assignment sheets for the exercise
- Online registration for exercises on the LSF
- Important announcements and dates!
Content of the lecture

Introduction, fuzzy sets and fuzzy logic
Theory
Fuzzy control
Fuzzy data analysis
Learning fuzzy systems
About the exercise

Active participation and explanations of your solutions
Assistant will call attention to mistakes and answer questions
Pure ‘calculations’ of sample solution is not the purpose

Assistant:
• Alexander Dockhorn, alexander.dockhorn@ovgu.de

First assignment due April 15/17
• Monday: 3.15 – 4:45 pm (G29-K059), Dockhorn
• Wednesday: 3.15 – 4:45 pm (G29-K059), Dockhorn
Conditions for Exam and Certificate

Exam or Certificate will get who...

- regularly contributes well in the exercises,
- ticks off at least $\geq 66\%$ of all written assignments,
- presents $\geq 2$ solutions to written assignments during exercises (this number is reduced in case not everybody can present twice due to the number of students per exercise)
- submits at least twice a running implementation of a programming assignment, and
- students who fulfill these criteria can to write the exam (120 min), which they need to pass to successfully finish the course
Books about the course

http://www.computational-intelligence.eu/
What are we going to talk about?!

Research on fuzzy systems wants to establish

- theoretical and methodological bases for computational intelligence,
- tools and techniques for design of intelligent systems.

Fuzzy systems focus on applications

- where some aspects of imprecision plays an important role.

Fuzzy set theory and fuzzy logic

- with a solid mathematical foundation.