

# Machine Learning Applications (MLA)

## Instruction for Infrastructure

### Overview of Infrastructure that can be Used



# What is the Purpose?

- We want to support the work of the groups as much as possible by offering different IT-services
  - Each group can decide on their own whether they want to use the services or not
  - The aspects that really count are
    - Take part in the written exam
    - Deliver the documentation on time
    - Deliver the code on time
    - Deliver the presentation on time
    - Attend at the presentation
- You decide how to fulfill this

# What IT-Services are Offered?

- Server for data storage, data sharing, data synchronisation
- Code versioning server to work collaboratively on software code
- Chat application for group internal communication
- Computational resources for more complex calculations

→ Step-by-step manuals for each service are available

→ Each service can be reached from everywhere over the internet

# What's the Advantage of the Data Server?

- You can store all data of your group on our server
- You can access the data via web browser
- You can set up a data synchronisation between your computer and the server (like Dropbox, OneDrive, etc.)
- You can directly access your files from the FSR computers for more complex calculations (same network)
- Enough storage space for your work

Manuals: 003\_FileStation & 004\_SynologyDrive

# What's the Advantage of Using GitLab?

- You can use Gitlab to track changes in your code
- You can use Gitlab to work collaboratively on the same code
- You can use Gitlab to work on different branches/versions of the same software simultaneously
- You can use Gitlab to track and coordinate code issues

Manual: 006\_Gitlab

# What's the Advantage of Using Chat-Application?

- Your chat group with your team members already exists – no need to set up WhatsApp, Threema, Telegram,... group by your own
- You can highlight chat messages
- You can pin messages and create reminders
- You can quickly exchange files and thoughts

Manual: 005\_SynologyChat

# What's the Advantage of Using FSR's Computers?

- You can use more powerful hardware resources  
(8 core CPU, GeForce RTX 2080 TI, 32 GB RAM)
- You have a 10 Gbit connection to the MLA Server
- You have MATLAB and Python preinstalled

Manual: 007\_ComputationPCs

# Contact / Questions / Problems

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