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3. Embedded Systems Lab Exercises

H-Bahn Dortmund Example (10 Points)

Consider the given map and the timetables (on the back side) of the H-Bahn Dortmund. There are existing two different trains. Train 1 shuttles between the stations *Technologiezentrum* and *Eichlinghofen*. Train 2 shuttles between the stations *Campus Nord* and *Campus Süd*.

Exercises:

- Download from „ls12-www.cs.uni-dortmund.de/edu/scripts-en.html“ the file „*leviTDD.zip*“. For installing the teaching module you have to unpack the zip file.
- Start the teaching module by executing the file „*leviTDD.jar*“.
- Construct the map within the map editor of the teaching module.
- Develop the time distance diagram of the given timetables. You should represent train 1 and 2 in the same diagram.
- Start the visualization and check if your time distance diagram is correct.
- Please fill in the questionnaire of the teaching module *leviTDD*.

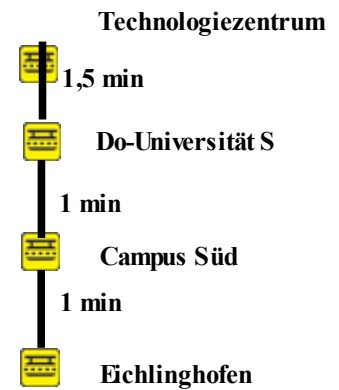
Details about the usage of the teaching module you will find in the online help of the module!



Train 1 (Technologiezentrum – Eichlinghofen)

Departure Times:

| <i>Technologiezentrum</i> | <i>Do-Universität S</i> | | <i>Campus Süd</i> | | <i>Eichlinghofen</i> |
|---------------------------|--------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------|
| | <i>Direction Eichlinghofen</i> | <i>Direction Technologiezentrum</i> | <i>Direction Eichlinghofen</i> | <i>Direction Technologiezentrum</i> | |
| 7:03 | 7:06 | 7:05 | 7:09 | 7:03 | 7:01 |
| 7:13 | 7:16 | 7:15 | 7:19 | 7:13 | 7:11 |
| 7:23 | 7:26 | 7:25 | 7:29 | 7:23 | 7:21 |
| 7:33 | 7:36 | 7:35 | 7:39 | 7:33 | 7:31 |
| ... | ... | ... | ... | ... | ... |



Train 2 (Campus Nord – Campus Süd)

Departure Times:

| <i>Campus Nord</i> | <i>Campus Süd</i> |
|--------------------|-------------------|
| 7:06 | 7:03 |
| 7:11 | 7:08 |
| 7:16 | 7:13 |
| 7:21 | 7:18 |
| 7:26 | 7:23 |
| 7:31 | 7:28 |
| ... | ... |

