

European Training Network on Full Parallax Imaging

# ETN-FPI Training School 3

## “Plenoptic Sensing”

March 13 – 17, 2017

Multimedia Information Processing  
Department of Computer Science  
Christian-Albrechts-Universität zu Kiel



## Schedule

### Schedule for Mon – Thu:

- 9:00 – 12:30      **Lecture session** in Leibnizstraße 1, room 209a
- 12:30 – 14:00      **Lunch** at cafeteria, Westring 385
- 14:00 – 17:00      **Lab session** (multimedia lab / Raytrix)
  - 1 group at multimedia lab, Hermann-Rodewald-Str. 3, room 304
  - 3 groups at Raytrix, Schauenburgerstr. 116, main building 1, 2F
- **Mon** evening      Dinner & bowling at [Rick's Café](#) (Eckernförder Str. 85)
- **Wed** afternoon      Visit to [REALEYES](#) (no lab session)
- **Wed** evening      Conference dinner at [El Meson Playa](#), Laboe

### Schedule for Fri:

- 9:00 – 12:00      **Lab session**

# Schedule

Mon, 13 March	Tue, 14 March	Wed, 15 March	Thu, 16 March	Fri, 17 March
9:00 – 10:30 Lecture 1.1: C. Perwass	9:00 – 10:30 Lecture 2.1: S. Esquivel	9:00 – 10:30 Lecture 3.1: B. Goldlücke	9:00 – 10:30 Lecture 4.1: K. Myszkowski	9:00 – 12:00 Lab Session 4
10:30 – 11:00 Coffee Break	10:30 – 11:00 Coffee Break	10:30 – 11:00 Coffee Break	10:30 – 11:00 Coffee Break	
11:00 – 12:30 Lecture 1.2: C. Perwass	11:00 – 12:30 Lecture 2.2: R. Koch	11:00 – 12:30 Lecture 3.2: B. Goldlücke	11:00 – 12:30 Lecture 4.2: J. Keinert	
12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:00 Closing
14:00 – 17:00 Lab Session 1	14:00 – 17:00 Lab Session 2	14:00 – 16:30 Visit REALEYES	14:00 – 16:30 Lab Session 3	
18:00 – 20:00 Dinner at Rick's Bowling Café	17:00 – 19:00 Board Meeting	18:00 – 22:00 Conference Dinner in Laboe		

## Lab Sessions

### **CAU: Sandro Esquivel**

- **Light Field Capturing with Rig**
- Multi-Camera Rig Calibration
- Image-Based Rendering
- Depth Image-Based Rendering

### **Raytrix 2: Arne Petersen**

- **3D Particle Tracking**
- Particle Image/Tracking Velocimetry (PIV/PTV)
- High-Speed Video Analysis

### **Raytrix 1: Arne Erdmann**

- **Light Field Microscopy**
- Endoscopy
- 3D Vision Stitching
- Inspection

### **Raytrix 3: Stefano Spyropoulos**

- **RxLive Light Field Software**
- 3D Metric Target Calibration
- Dense 3D Filling

## Lab Sessions

### Group 1 (CAU→R.1→R.2→R.3):

- Luca Palmieri
- Yuan Gao
- Yongwei Li
- Waqas Ahmad
- Elijs Dima

### Group 3 (R.2→R.3→CAU→R.1):

- Christos Kaspiris-Rousellis
- Maydel Fernandez Alonso
- Faezeh Sadat Zakeri
- Ron Op het Veld

### Group 2 (R.3→CAU→R.1→R.2):

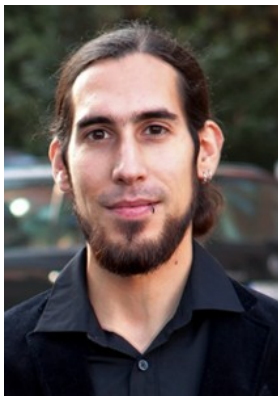
- Gabriele Scrofani
- Amir Ansari
- Seokmin Hong
- Daniel Ardebili
- Ole Johannsen

### Group 4 (R.1→R.2→R.3→CAU):

- Sergio Morechini
- Filipe Gama
- Aron Cserkaszkzy
- Oleksii Doronin

# Lab Sessions

	Mon, 13 March	Tue, 14 March	Thu, 16 March	Fri, 17 March
Group 1	CAU	Raytrix 1	Raytrix 2	Raytrix 3
Group 2	Raytrix 3	CAU	Raytrix 1	Raytrix 2
Group 3	Raytrix 2	Raytrix 3	CAU	Raytrix 1
Group 4	Raytrix 1	Raytrix 2	Raytrix 3	CAU



Sandro Esquivel  
CAU, Multimedia lab



Arne Erdmann  
Raytrix, Topic 1



Arne Petersen  
Raytrix, Topic 2



Stefano Spyropoulos  
Raytrix, Topic 3



# Venue

Northwestern “lower” campus  
(seminar building)

Southeastern “upper” campus  
(multimedia lab, cafeteria)





## Venue



Seminar building, r. 209a, 3F,  
Leibnizstraße 1 (lower campus)

By bus to upper campus:  
Short distance ticket (1,80 €)

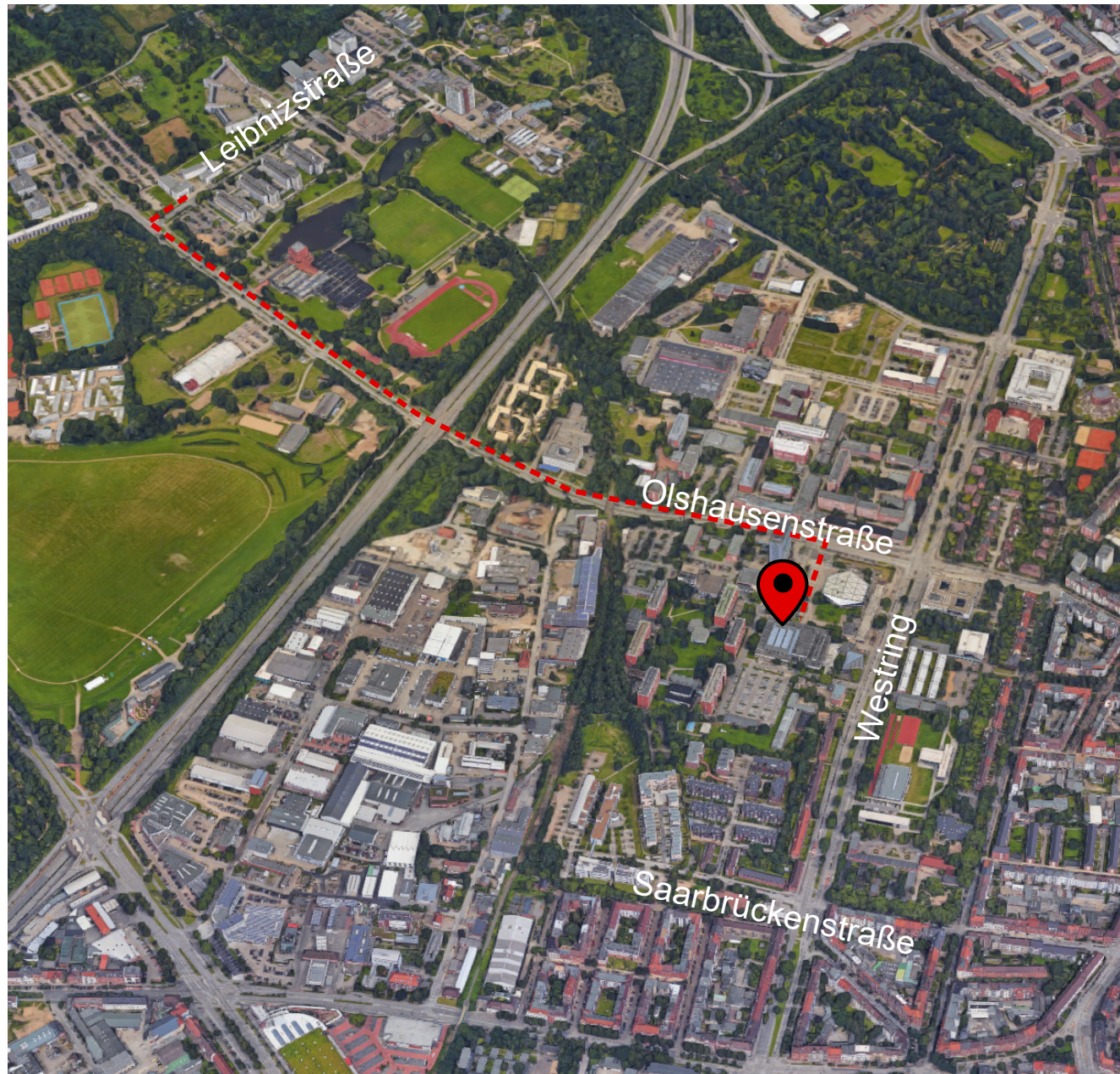




## Venue



Cafeteria (Mensa 1),  
Westring 385 (upper campus)

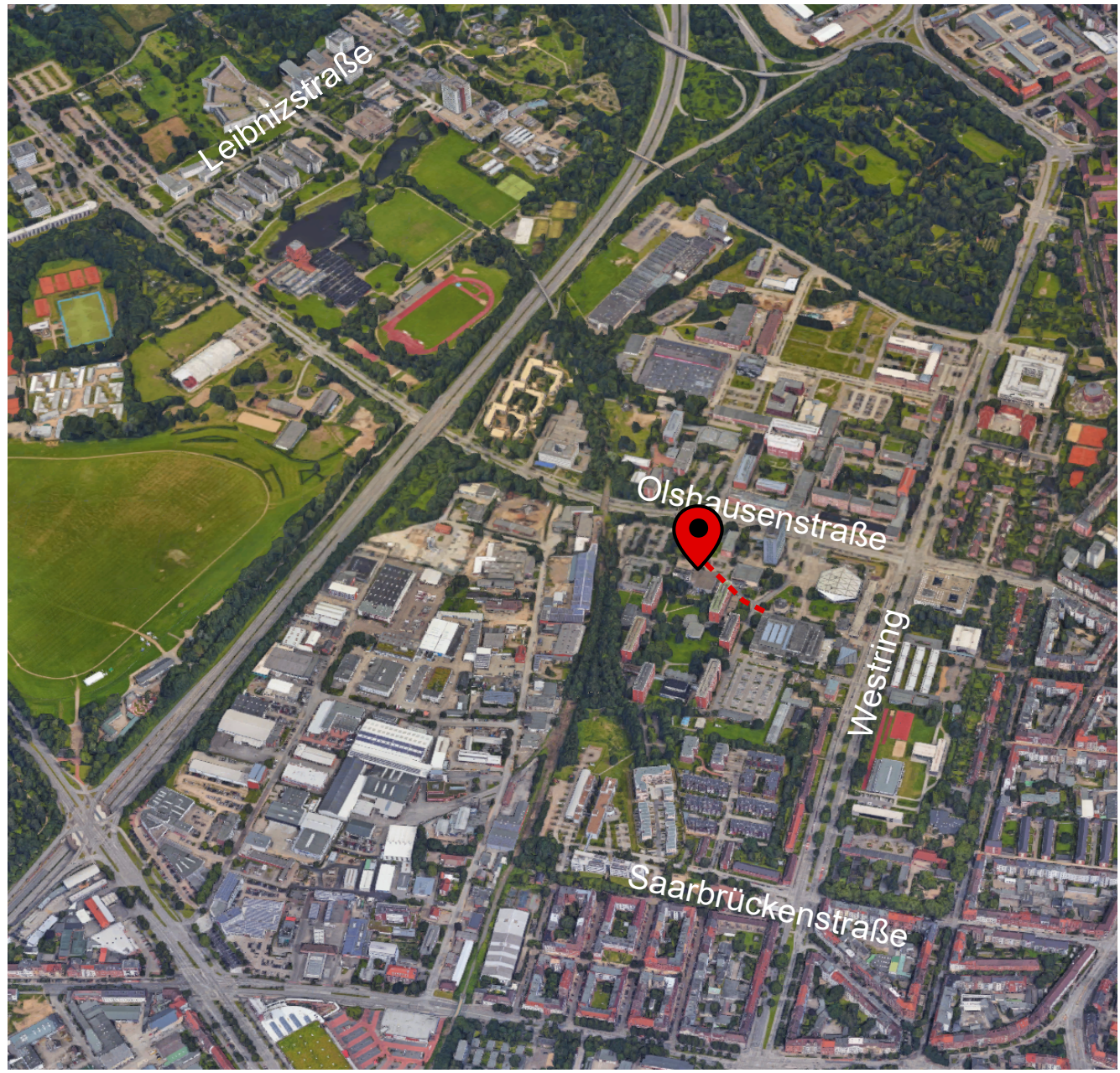




# Venue



Multimedia lab, r. 304, 2F,  
Hermann-Rodewald-Straße 3  
(upper campus)

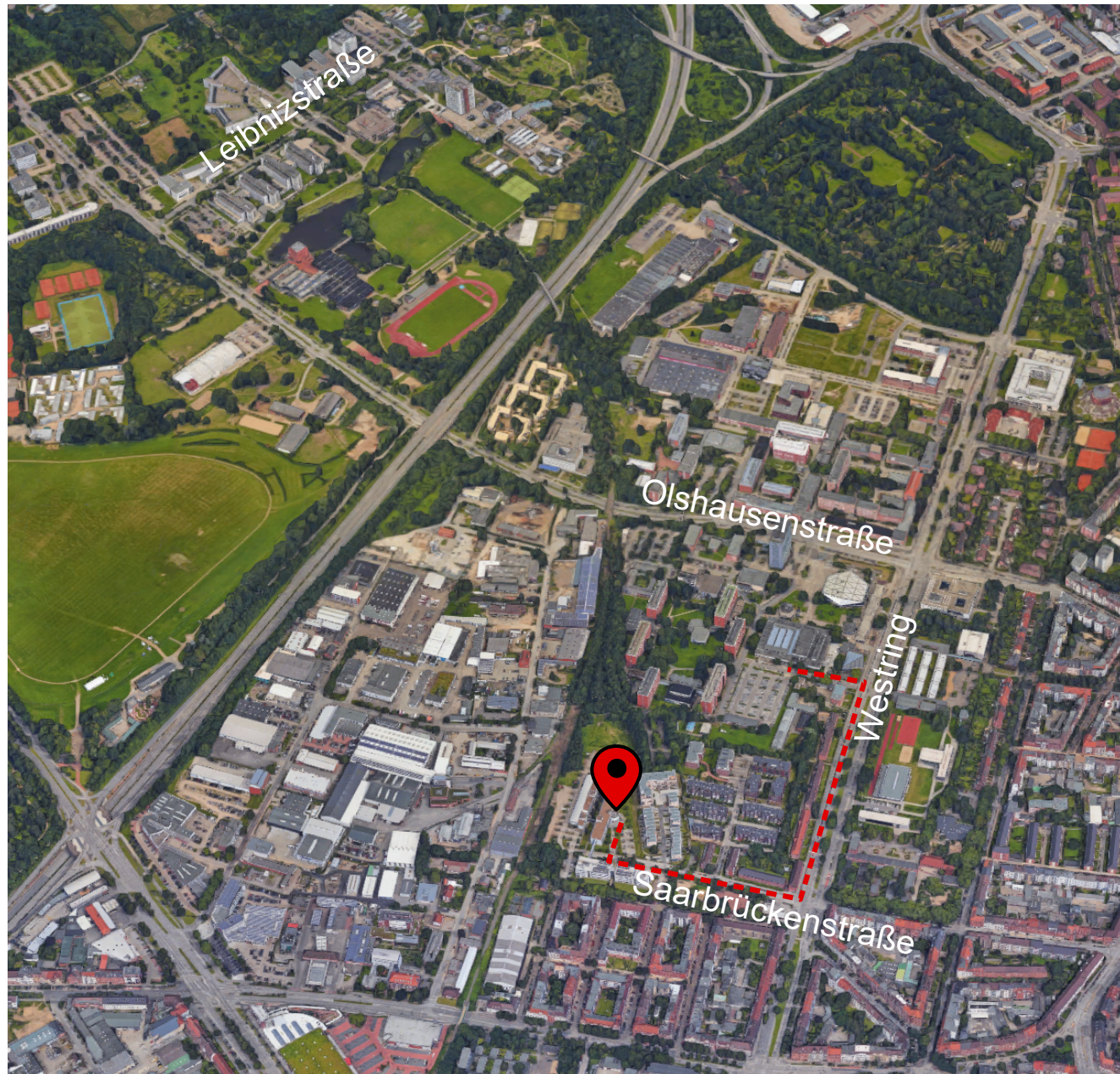




## Venue



Raytrix, KITZ main building,  
Schauenburgerstraße 116  
(near upper campus)





## Lunch at Cafeteria

- Tickets for lunch in cafeteria (Mensa 1) are provided to ESRs
- Includes 1 meal (choose any meal from counter A – E), 1 additional side dish or dessert, and 1 soft drink
- Not included: salad bar, pasta bar, pizza counter, special offer
- Menu for Mensa 1, week March 13 – 17, 2017 (in English):  
[Download from TS3 website](#) (see also bulletin in seminar room)



## Lunch at Cafeteria

- Menu for Mensa 1, week March 13 – 17, 2017

	Mon, 13 March	Tue, 14 March	Wed, 15 March	Thu, 16 March	Fri, 17 March
<b>B</b>	Creme of chicken with lemon grass and coriander	Creme of broccoli with meatballs	Soup of mushrooms and hamburger meat, baguette	Sweet yeast dumplings with cinnamon sauce	Lentil soup with sausage
<b>C</b>	Hamburger with parsley sauce, mashed potatoes/carrots	Steamed fish on vegetables, rice and horse radish dip	Stuffed cabbage with bacon, mashed potatoes	Roast pork with cranberry chutney, croquettes	Fried chicken breast with rucola pesto, vegetables
<b>E</b>	Vegetarian gyros, tsatsiki and rice	Gnocchi and spinach with cheese sauce	Gratin of potatoes and vegetables, rucola dip	Casserole with macaroni, tomatoes, basil	Fried mushrooms and sweet peppers, dip, rice
<b>A (D)</b>	Lasagne bolognese	Chicken curry with rice	Pork cutlet with mushroom sauce, boiled potatoes	Chili con carne with rice	Braised steak, fried potatoes, salad

## WLAN Access

- Internet access available via [eduroam](#) at CAU university venues (seminar building, multimedia lab, cafeteria)
- Alternative: Ask Sandro Esquivel for guess account username/password for local network [CAUx](#)
  - Telekom Root CA2 [certificate](#) is needed to access [CAUx](#) network, see instructions at:  
[https://www.rz.uni-kiel.de/en/hints-howtos/wlan?set\\_language=en](https://www.rz.uni-kiel.de/en/hints-howtos/wlan?set_language=en)
  - For Windows: Network onfiguration tool available (see above link)



## Website

- Time table and further information about lectures, exercises, venues and social activities can be found on the Training School website:

<http://www.full-parallax-imaging.eu/TS3/>

- Downloads of lecture slides and exercise documents will be made available there during the event.

