# Seminar Computergraphik
## Winter semester 2023-24

Current research topics and results in the field of computer graphics

# Seminar Overview

- Goal: Introduction to scientific work
- Individual topic and supervisor
- Tasks:
  - Writing a **summary** about a paper (scientific publication)
  - Write a **review** about the summary of another participant
  - **Presentation** of the paper with subsequent discussion

# Task — **Latex Summary**

- Reading and understanding the paper
- Contacting the supervisor in case of questions
- Summary:
  - Show that you understood the topic
  - What are the positive and negative aspects of the paper?
  - Written in your own words
  - At least 8 pages in the CG Latex template
  - Language: German or English

# Task — **Review**

- Read and review the summary of another participant
  - Is the contribution of the paper clear?
  - Has the method been explained sufficiently?
  - Are equations, plots, and images correct and adequate?
  - …
- Roughly 1 – 2 pages
- Afterwards: Improve your own summary based on the feedback

# Task— **Presentation**

- Create the slides using your preferred template and software tool
- **Practice of the talk** with your supervisor (Mandatory!)
- Final Presentation
  - Max. 20 mins
  - 10 mins discussion and questions
  - *26.01.2024, 09:00 - 10:30 Talks 1*
  - *02.02.2024, 09:00 - 10:30 Talks 2*


# Evaluation Criteria

- Compliance with mandatory deadlines
- Communication with supervisor
- Bachelor or Master student
- Quality of the latex summary
- Active participation in the review process
- **Main part**: Quality of presentation and slides

# Timeline

| | |
|---|---|
| Kick-Off | Now ☺ |
| *Deregistration deadline* | *06.11.2023* |
| Summary deadline | 26.11.2023 |
| Review deadline | 06.12.2023 |
| Improved summary deadline | 20.12.2023 |
| Practice talk deadline | 19.01.2024 |
| Hand in of presentation slides | 25.01.2024 |
| **Talks 1** | 26.01.2024, 09:00 Uhr |
| **Talks 2** | 02.02.2024, 09:00 Uhr |


# Topic Assignment

| Name | Topic | Supervisor | Mail |
|---|---|---|---|
| Minela Becirovic | A Study of Change Blindness in Immersive Environments (IEEE VR 2023) | Colin Groth | groth@cg.cs.tu-bs.de |
| Marius Werkmeister | Iterative alpha-(de)Blending: a Minimalist Deterministic Diffusion Model (SIGGRAPH 2023) | Sascha Fricke | fricke@cg.cs.tu-bs.de |
| Mathias Ivanov | K-Planes: Explicit Radiance Fields in Space, Time, and Appearance (CVPR 2023) | Moritz Kappel | kappel@cg.cs.tu-bs.de |
| Felix Wischhusen | 3D Gaussian Splatting for Real-Time Radiance Field Rendering (TOG 2023) | Florian Hahlbohm | hahlbohm@cg.cs.tu-bs.de |
| Amjad Alwadi | A Hybrid Generator Architecture for Controllable Face Synthesis (SIGGRAPH 2023) | Jan-Philipp Tauscher | tauscher@cg.cs.tu-bs.de |
| Steffen Szramka | Review and Collation of Graphical Perception Knowledge for Visualization Recommendation (CHI 2023) | Susana Castillo | castillo@cg.cs.tu-bs.de |

# Presentation dates

| | 26.01.2024 | | 02.02.2024 |
|---|---|---|---|
| ***9:00*** | Felix Wischhusen | ***9:00*** | Amjad Alwadi |
| ***9:30*** | Steffen Szramka | ***9:30*** | Mathias Ivanov |
| ***10:00*** | Marius Werkmeister | ***10:00*** | Minela Becirovic |

**Attendance is mandatory in both sessions!**



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