#### **CS271 Computer Graphics II**

Lecture 0

**Course Introduction** 

#### Lecturer

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## TA

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### Course Schedule

Chapter 1. Introduction of Computer Graphics (Research topics and applications)

**Chapter 2. Computational Geometry** (convex hull, Voronoi graph, Delaunay triangulation, polygon triangulation, related research and applications)

**Chapter 3. Mesh** (mesh data structure, mesh smoothing, mesh simplification, skeleton extraction, human motion caption and modeling, and frontier research)

**Chapter 4. Point Cloud** (definition of point cloud, calculating surface normal, outlier removal, point cloud alignment (ICP, RANSAC), point cloud completion, point cloud perception, point cloud reconstruction, point cloud registration, and related research)

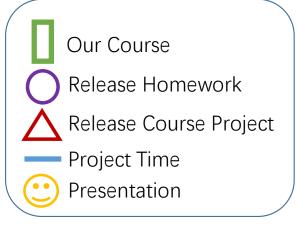
**Chapter 5. Image Processing** (image segmentation, image detection, video prediction, 3D modeling from image)

## Evaluation

- **Homework** 4 \* 10%
- Paper sharing 1\* 10%
- Course project 50%

## Timeline

_=	三月					四月				五月						六月		
星期一	14	21	28	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13
星期二	15	22	1	8	15	22	29	<b>5</b> 清明	12	19	26	3	10	17	24	31	7	14
星期三	16	23	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15
星期四	17	24	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16
星期五	18	25	4	11	18	25	1	8	15	22	29	6	13	20	27	3 端午节	10	17
星期六	19	26	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18
星期日	20	27	6	13	20	27	3	10	17	24	力 劳动节	8	15	22	29	5	12	19
周数	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



#### Piazza

- ShanghaiTech University Spring 2022
- CS 271: Computer Graphics II
- Find our class page at: <a href="https://piazza.com/shanghaitech.edu.cn/spring2022/cs271/home">https://piazza.com/shanghaitech.edu.cn/spring2022/cs271/home</a>

# Academic Integrity

 Unless explicitly noted, work turned in should reflect your own/independent capabilities.

- No cheating (We will check carefully!)
- Dot share your homework/code!
- No fake solutions!
- No plagiarism!
- Serious consequences!