

CS271 Computer Graphics II

Lecture 0

Course Introduction

Lecturer

Yuexin Ma (马月昕)

Tel: (021) 20684436

Office: Room 1-403E, SIST Building

Office hour: 3pm-5pm, Wednesday

Email: mayuexin@shanghaitech.edu.cn

Homepage: <http://yuexinma.me/aboutme.html>

TA

Peishan Cong(丛培珊)

Office: Room 1C-315, SIST Building

Email: congps@shanghaitech.edu.cn

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 capture 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

	二月			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	5 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	1 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



Our Course



Release Homework



Release Course Project



Project Time



Presentation

Piazza

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

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!