JUN ZHOU

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EDUCATION

2019.11-2023.11

UNIVERSITY OF GRONINGEN
Groningen, the Netherlands

PhD candidate of Science in Computer Graphics

Thesis title: Selected applications of subdivision surfaces and numerical quadratures for Gregory patches

2011.9-2013.5

NORTHEASTERN UNIVERSITY
Boston, MA,USA

Master of Science in Computer Science

Teaching Assistant of Object-Oriented Design

Programming Design Paradigm, Algorithm, Management of Software Engineering, Networks, Machine Learning, Artificial Intelligence, Computer Graphics, Mobile Development

2007.9-2011.6

BEIJING JIAOTONG UNIVERSITY
Beijing, China

Bachelor of Engineering in Software Engineering

First Prize in National College Students Innovation Competition by Project *Handheld Hearing Tester and Spectrum Analyzer*

Second Prize in Epson c17 Micro-controller National Electronic Design Competition by Design *Smart Projector* (2nd of 200+)

Intern at IBM CDL(China Development Lab)

Database, Operating System, J2EE, Data Structure, Distributed Systems, Software Architecture

RESEARCH EXPERIENCE

Feature-adaptive and hierarchical subdivision gradient meshes:

We present a novel method that incorporates the idea of feature-adaptive subdivision and uses approximating patches suitable for hardware tessellation with real-time performance.

Numerical quadrature for Gregory patches:

We provide numerical and where possible symbolic quadrature rules for the basis functions underlying Gregory patches, as well as the derived spaces including derivatives, products, and products of derivatives of these functions.

Subdivision shading for surfaces with semi-sharp creases:

We present two approaches to extending subdivision shading to work also on models with (semi-)sharp creases, and demonstrate this in the cases of Catmull-Clark scheme for quad-dominant meshes as well as Loop subdivision scheme for triangular meshes.

EMPLOYMENT

2014.10- 2019.10   **Baidu**

Senior Test&Development Engineer

Responsible for the quality of mobile products: Baidu Mobile (video service); Baidu Knows (mobile app & plugins in Baidu Mobile); Baidu Paste Bar (mobile app)

Developed tools for testing; Built standardised process for our products; Analysed risks, made decisions for project; Handled cooperation problems.

2013.6–2014.9   **Computer Application Institute of Nuclear Industry**

Development Engineer

Developed Enterprise Material Management System.

2012.9–2012.12   **Northeastern University**

Teaching Assistant of class Object-Oriented Design

Answered questions for undergraduate students weekly in lab.

Graded assignments of students weekly.