Curriculum Vitae

Li Han (PhD candidate)

Research Institute:

Mailing Address:

Graphitech.

Via Dei Molini, 2, 38050, Villazzano (TN), Italy

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University:

Trento University

Via Sommarive 14, I-38050 POVO (TN) - Italy

Phone: (+39) 0461 882092 Fax: (+39) 0461 882098

Research Interests

Numerical Analysis and Scientific Computing

- · Geometric and Physically-Based Modeling
- Dynamical Systems
- Homan Computer Interaction Technique
- Bioinformatics: image retrieval and 3D reconstruction

Technical Skills

- Strong background in algorithm analysis and image processing
- 4 years research in computer graphics
- Extensive experiences in these computer technologies:
 - o C/C++/MFC, OpenGL
 - o Opencascade, ACIS, and OpenInventor etc. 3D toolkits programming
 - o SQL

Education

Ph.D. Computer Science. (current)

Trento University (Information and communication technology Faculty)

Research Topic: Interactive Shape Modeling and Dynamic Deformation based on Spline

Sculptina

Advisor: Prof Raffaele.De.Amicis

M.S. Computer Science, July 2002

LiaoNing Normal University, DaLian, P.R. China

Thesis topic: Intelligent Algorithm for Basic Conic Geometry Generation base on Hexagonal

Grid and Innovative Anti-aliasing Technique

Cumulative GPA: 4.0/4.0

B.S. Computer Science, July 1996

LiaoNing Normal University, DaLian, P.R. China

Cumulative GPA: 94.5%

Research Experience

Graphitech, Italy, the member of INI-GraphicsNet (01/2004 – supposed to be 03/2007) Supervisor: Raffaele De Amicis

Geometric Modeling, Curve and Surface, HCI, Virtual Reality Environment,

- Free form shape modeling based on sketching
 - Basic 2D Stroke Recognition
 - Sketch-based 3D objects Modeling
 - Spline-based Free Form Surface Modeling
 - Spline-based Dynamic Deformation
- Get involve in EU project "AIM@SHAPE and IMPROVE"

Laboratory 3S in INPG, Grenoble , France (01/05/2006- 31/10/2006) Supervisor: Jean Claude Leon

Semantic-based curve manipulation; Physically-based deformation

- Symbolic curve representation based on Leyton process grammar
- Curve properties detecting based on the analysis of the curvature plot
- Dynamic Nurbs curve's curvature computing and constraints minimization
- The definition of Aesthetic Curve Operators for car styling

Teaching Experience

Computer and Information Technology College, Liaoning Normal University, 01/1996 – 08/2002 (as a lecturer, as an associated professor after 2006)

Fundament of Computer Graphics (1999-2002)

Algorithm Analysis (1997-2002)

Computer Programming in C (1996-1999)

Data Structure (1996)

Theory of Database (1996)

International Conference Publications

Spline-Based Shape Modeling

Li Han, Giuseppe Conti, EuroGraphics Italian Chapter, Italy, 2007 (In Review)

Interactive Spline-Driven Deformation for Shape Modeling

Li Han, Raffaele. De. Amicis, Giuseppe Conti, ACM Solid and Physical Modeling Symposium, 2006, Wales, UK, 139 – 147.

Adaptive Constraint and 3D Sketch-based Deformation for Interactive Free Form Surface Styling

Li Han, Raffaele. De. Amicis, Giuseppe Conti, In the International Conference of Computer Graphics Theory and Applications, 392-399, 2006, Portugal.

Responsive Interaction Base on Sketch in Conceptual Styling

Li Han, Raffaele. De. Amicis, Giuseppe Conti, HCI (Interact 2005) IFIP TC13 International Conference, Springer, 94-105. 2005 (and it is selected to put in journal of INIGrpahicsNet 2005).

Freehand 3D Curve Recognition and Oversketching

Li Han, Giuseppe Conti, Raffaele. De. Amicis , Eurographics UK Chapter ,187-193. 2005, Canterbury, UK.

A Novel Approach to Free-form 3D Curve and Surface Sketching for Conceptual Styling

Li Han, Giuseppe Conti, Raffaele. De. Amicis. "Mathematics and Art", Calabria, Italy 2005

Journal Publications

Spline-driven Deformation for Interactive Shape Modeling

Li Han, Giuseppe Conti, Raffaele. De. Amicis, Computer & Graphics, 2007 (In Review).

Sketch-based Intelligent Shape Modeling System for Conceptual Designing

Li Han, Giuseppe Conti, In INIGraphicsNet Topics, 33-35, May, 2005.

Intelligent 3D Curve Sketching for B-Spline Surface Modeling

Li Han, Di Tang, Computer Engineer and Design, January, 2006, China

Semantic-enabled System for Intelligent Shape Handling

Li Han, Di Tang, Computer Engineer, January, 2005, China

Sketch-based Intelligent Geometric Modeling System

Li Han, Di Tang, Computer Engineer and Application, July, 2005, China

A Rapid Algorithm for Anti-aliasing of Line Drawing

Li Han, Di Tang, Mini-Micro Systems, January, 2004 China

A Rapid Algorithm for Generation of Ellipse Base on Hexagonal Grid

Li Han, Di Tang, Computer Software and Application, November, 2003 China

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Relevant course work

PhD	Graduate	Undergraduate
Fundaments of Computer Graphics and Geometric Modeling (A+)	Design and Analysis of Algorithms (A+)	Theory of Compiler Design
Object-oriented 3D Graphics Programming (A+)	Computer Networks (A)	Discrete Structures
Human Computer Interaction (A)	Image Processing (A)	Computer Programming in C
Research Methodology (A)	Computer vision (A+)	Software Engineering;
Speech Recognition (B+)	Operating System Principles (B)	Digital Circuit Design; Artificial Intelligence;
Conceptual Modeling (B+)	Compute Geometry (A+)	Database Management System
Knowledge representation (A)	Internet Protocols (A-) Graph Theory (excellent)	Computer Organization; Advanced Computer

Architecture;
Data Structures and
Programming Methodology;
File Processing And
Information System;
Computer Graphics;
Functional Programming;

Honors and Awards:

- Scholarship in Trento University. Italy.
- Awarded excellent lecturer prize among 500 lecturers in LiaoNing Normal University from (1997-2000). China
- Stood Rank top 10 among 2,000 graduated candidates who competed for the position of assistant Lecturers in LiaoNing Normal University in 1996. China
- Ranked among top 5 students for the excellent practice in 1995, China.
- Serve as a chair of student association in computer science department of LiaoNing University from 1993-1995.
- Awarded excellent student prize in LiaoNing Normal University from 1992-1996, China.

Objective:

Seeking a challenging researcher position to enhance my research skills and extend knowledge area.