

Yun Gyung Cheong

Doctoral Student
Department of Computer Science
North Carolina State University
Raleigh, NC 27695
919.247.2058
aimecca@gmail.com
<http://www4.ncsu.edu/~ycheong/>

OBJECTIVE

To conduct scientific research on narrative generation, intelligent media, intelligent user interface

EDUCATION

Doctor of Philosophy in Computer Science, North Carolina State University, Raleigh, North Carolina, USA, expected August 2006

Dissertation Title: *Narrative Generation System for Suspense.*

Advisor: R. Michael Young, Ph.D., Computer Science at North Carolina State University.

Master of Science in Information Engineering, Sungkyunkwan University, Seoul, South Korea, 1998

Thesis Title: *A study on Tracking and Prediction the Face Trajectories Using Neural Network.*

Advisor: Moon-Hyun Kim, Ph.D., Department of Computer Engineering at Sungkyunkwan University.

Bachelor of Science in Information Engineering, Sungkyunkwan University, Seoul, South Korea, 1996

RESEARCH INTERESTS

Interactive media, Narrative generation, Discourse generation, Planning, Intelligent user interface, Artificial intelligence, Pedagogical agent

PUBLICATIONS

Papers in Conferences and Workshop:

Operation & Maintenance System for Replicated HLR in Mobile Communications. Cheong Yun-Gyung, Sung-Ah Kim, Moon-Suk Chung. In *Proceedings of the Korea Institute of Communication Sciences Workshop*, Vol. 22, No.1, pp. 220-223, October 2000.

Fraud Detection & Management System in Mobile Communications. Cheong Yun-Gyung, Hyoung-Sun Park, Moon-Suk Chung. In *Proceedings of the Korea Institute of Communication Sciences Workshop*, Vol. 19, No.2, pp. 1374-1377, 1999.

Prediction of Eye Trajectories Based on the ART Neural Network. Jong-Hei Ra, Yun-Gyung Cheong, Moon-Hyun Kim. In *Proceedings of the International Conference on Artificial Intelligence (IC-AI2000)*, vol. 2, pp. 845-850, Las Vegas, NV, June 2000.

Other Publications:

Automatic Generation of Warning Instructions from Plan Spaces. Yun-Gyung Cheong. Technical Report

TR04-002, Liquid Narrative Group, Department of Computer Science, North Carolina State University, 2004.

Patents:

Terminal Equipment Fraud Sensing And Management Method In Mobile Communication Network. Yun-Gyung Cheong, Hyung-Sun Park, Moon-Suk Chung. Korea Patent No. 10-0298290-0000.

Operator Command Processing Method In The Mobile Communication System. Yun-Gyung Cheong. Korea Patent No. 10-0372342-0000.

Terminal Fraud Sensing Management Apparatus And Method In Mobile Communication Network. Yun-Gyung Cheong, Hak-Jae Shin. Korea Patent No. 10-2001-0002797.

RESEARCH AND PROFESSIONAL EXPERIENCE

Research Assistant, North Carolina State University Raleigh, North Carolina, USA

8/2004-present

Interactive Narrative Generation 8/2004 – present
Researching narrative generation and interactive media; Designing a framework to create a suspenseful story.

Mimesis 8/2004 – 12/2004
Developed registry module for an intelligent distributed system in C#.NET; Handled XML encoded messages and route them to a proper module.

Dynamic User Interface 8/2002 – 8/2003
Researched and developed a prototype of an automatic prohibitive instruction generation system in Window-based simulation environment; Developed plan operators for dynamically generated instructions in Window-based simulation environment; Researched on natural language generation techniques; Employed FUF and Surge as surface realization component for dynamic user interface system.

Assistant Researcher, Research and Development Center, LG Electronics Seoul, South Korea

5/1998–3/2001

IMT-2000 Home Location Register and Authentication Center in mobile service ; Designed Fraud detection system; Implemented network management system interface in UNIX; Implemented mobile applications protocol; Implemented operation and maintenance system; Implemented real-time database manipulation interface; Developed Web user interface using C CGI and PHP; Held educational sessions for NEC developers.

Research Assistant, Sungkyunkwan University Seoul, South Korea

2/1996 – 2/1998

Eye detection in dynamic images 3/1996–10/1997
Applied ART neural network to predicting eye trajectories; Devised an effective algorithm for eye detection; Wrote a technical report and managed project.

Segmentation of Korean Hand Written Characters 3/1996–5/1997
Implemented an interface to hand written recognition component; Reviewed character recognition literature; Wrote a technical report.

TEACHING EXPERIENCE

Teaching Assistant, Department of Computer Science, North Carolina State University **2001 – 2004**
Raleigh, North Carolina, USA

Classes: Operating Systems, Compiler Construction, Database Management Concepts and Systems, Artificial Intelligence.

Graded assignments and projects; Held office hours regularly; Assisted developing and grading exams; Technical assistance with Java programming, C, MySQL, and LISP.

Teaching Assistant, Department of Information Engineering, Sungkyunkwan University **1996 - 1997**
Seoul, South Korea

Lectured units on UNIX and circuit practice to classes of over 40 students.

PROGRAMMING SKILLS

Language: C, C++, Java, Visual .NET, Visual C#, Smalltalk, Lisp, Prolog, Perl, Clipper.

Web: JSP, Java Servlet, Javascript, CGI, Perlscript, XML, HTML.

OS: Windows, UNIX.

HONORS AND AWARDS

Computer Science Graduate Fellow, Computer Science Department, North Carolina State University, 2001–current.

Awarded *Grand Prize for developing new enterprise*, LG Electronics, Seoul, South Korea, 1999.

Graduate Scholarship, Computer Science, Sungkyunkwan University, Seoul, South Korea, 1998.

LEADERSHIP AND VOLUNTEER ACTIVITIES

Treasurer of *Women in Computer Science* at North Carolina State University, 2005.

Departmental Ambassador for Computer Science, North Carolina State University, 2003-present.

Member of *Korean Catholic Church Choir* in Raleigh, 2001-2003.

President of *The alumni of the Voice of Science*, 2000-2001.

Treasurer of *Women in LG Electronics Research & Development Center*, 1999.

Member of *Nanoom*, a group for helping kids from low-income families, 1998-2001.

President of *The Voice of Science* at Sungkyunkwan University, 1993.

Keyboardist of the music band *The flower of Evil*, 1992-1996.

Representative of Information Engineering Undergraduate Student Association, 1992-1993.