

Susan Makrouhee Haynes, Ph.D.

CONTACT INFORMATION

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EDUCATION

Ph.D., 1990 Computer, Information and Control Engineering,
Department of Electrical Engineering and Computer Science
University of Michigan
Ann Arbor, Michigan 48109

M.S., 1982 Computer Science
Wayne State University
Detroit, Michigan 48202

B.S., 1976 Biophysics
College of Literature, Science and the Arts
University of Michigan
Ann Arbor, Michigan 48109

WORK HISTORY

1995 – present Associate Professor, tenured, EMU

Summer 1995, 1997 Visiting Associate Professor
American University of Armenia
Yerevan, Armenia

1992 – 1995 Assistant Professor, EMU

1990 - 1992 Research Engineer, placed at Ford Motor Company,
Scientific Research Laboratory,
Dearborn, Michigan

PUBLICATIONS

Susan Haynes, “Computational MicroSwimmers”, *Michigan Academic of Science Arts and Letters*, Kalamazoo, Michigan, March 2008.

Scott Lynn and Susan Haynes, “No Piano No Problem: Dynamic Music Playback Without a Keyboardist Using a New MIDI Standard”, *Michigan Academy of Science Arts and Letters*, March 2006.

Thomas Beckman and Susan Haynes, “3D Mouse for Sticker Placement”, *Michigan Academy of Science Arts and Letters*, March 2005.

Susan M. Haynes, "Explaining Recursion to the Unsophisticated", *SIGCSE*, vol. 27, #3, September 1995, pp 3-7.

J. C. Burba, S. Haynes, J. Volk, "Communications Layout for the Architecture Demonstration Vehicle," *Scientific Research Laboratories Technical Report SRL-92-004*, 1992.

S. M. Haynes and Ramesh Jain, "Qualitative Depth from Protracted Frame Sequences", *AAAI Workshop on Qualitative Vision*, July 29, 1990.

S. M. Haynes and Ramesh Jain, "A Qualitative Approach for Recovering Relative Depths in Dynamic Scenes," *Proceedings of Workshop on Computer Vision*, Miami FL, August 1987, 66-71.

Susan M. Haynes and Ramesh Jain, "Event Detection and Correspondence" *Optical Engineering*, 25, #3, March 1986, 387-393.

S. M. Haynes and Ramesh Jain, "Event Detection and Correspondence" Technical Report RSD-TR-12-85, Center for Research on Integrated Manufacturing, College of Engineering, University of Michigan, September 1985.

S. M. Haynes and R. Jain, "Low-level motion events: trajectory discontinuities," *Proceedings: First Conference on Artificial Intelligence Applications*, Boston MA, August 1984, 251-256.

Haynes, S.M. and Jain, R., 1983. Detection of moving edges. *Computer Vision, Graphics and Image Processing 21*, pp. 345-367.

R. Jain and S. Haynes, "Imprecision in Computer Vision," *Computer*, Aug. 1982, pp 39-48.

WHITE PAPERS

Papers published on the Web (generally student oriented)

"Red-Black tree insertion mechanics",
<http://www.emunix.emich.edu/~haynes/Papers/RedBlack/redBlack.doc>

"Sequential Circuit Design Cookbook",
<http://www.emunix.emich.edu/~haynes/Papers/SequentialDesign/SequentialCircuitDesign.doc>

"Python, Ruby & JavaScript: Young and Interpreted",
<http://www.emunix.emich.edu/~haynes/Papers/DepartmentTalks/PythonRubyJavaScript.ppt>

"Circular Queues for Programming a Microprocessor",
<http://www.emunix.emich.edu/~haynes/Papers/CircularQueue/cq.html>

"Extendible Hashing",
<http://www.emunix.emich.edu/~haynes/Papers/ExtendibleHashing/extendibleHashing.html>

"Probability for Elementary Programming Problems: Distributions and Programming",
<http://www.emunix.emich.edu/~haynes/Papers/ProbabilityDistributions/probabilityDistributions.html>

Data Structures & Algorithms
Computer Organization 1
Discrete Mathematical Structures
Microprocessors
Artificial Intelligence
VRML

Programming Language Principles
Computer Organization 2
Applied Cryptography
Compiler Construction
Database Principles

GRADUATE COURSES TAUGHT

Advanced Database Principles
Real-Time Principles
Multimedia Principles

Parallel Algorithms
Advanced Architecture