

## SHORT VITA

**George C. Stockman**

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### Professional Preparation:

Ph.D. Computer Science, University of Maryland, 1977; Dissertation Adviser Laveen Kanal  
M.S. Computer Science, Penn State University, 1971; Adviser Harry Hsu  
Master of Arts in Teaching, Math Ed, Harvard University, 1967  
BS, Math Ed, E. Stroudsburg Univ., PA 1966

### Appointments:

Professor (7/90 to present), Assoc. Prof. (9/82 to 6/90), Acting Chair (12/99 to 7/01 and August 2007)  
Department of Computer Science and Engineering, Michigan State University  
Partner and CIO of ERL,LLC, Lansing, MI, (8/2001 – 12/2004)  
Associate Professor (9/79 to 5/82), The American University, Washington, DC  
Senior Research Scientist (73 to 82), LNK CORP., Silver Spring, MD  
Mathematics Instructor (67-69), Virginia Union University, Richmond, VA

### Sample Publications:

- 1) G. Stockman, Object Recognition and Localization via Pose Clustering, Computer Vision Graphics and Image Processing, Vol 40(1987)361-387.
- 2) L. Shapiro and G. Stockman, Computer Vision, textbook, Prentice-Hall, 2001.
- 3) D. Colbry and G. Stockman, "Identity Verification via the 3DID Face Alignment System", Proc. Of IEEE WACV 2007, Austin, TX
- 4) G. Stockman, Object Recognition and Localization via Pose Clustering, Computer Vision Graphics and Image Processing, Vol 40(1987)361-387.
- 5) R. Raza, G. Stockman, L. Udpa, "Survey of Fusion of RFID and Computer Vision for Recognition and Tracking" in review.
- 6) Unsang Park, Lalitha Udpa, George Stockman, "Motion-based Filtering of magneto-optic imagers", Image and Vision Computing, 22-3(2004).
- 7) V. Bakic and G. Stockman "Menu Selection by Facial Aspect", Proc. Vision Interface '99, Quebec Canada (18-21 May 99).
- 8) G. Stockman, "Object Representation for Recognition by Alignment", in 3D Object Representations in Computer Vision, J. Ponce and M. Herbert(eds), Springer-Verlag(1995).
- 9) R. H. Raza, G. C. Stockman, "Target tracking and surveillance by fusing stereo and RFID information", Proceedings of SPIE Vol. 8392, 2012.
- 10) Rana Raza and George Stockman, "Fusion of Stereo Vision and RFID for Site Safety", Computer Applications in Industry and Engineering-2012, 14-16 Nov., New Orleans, LA, USA

## Service and Educational Activities:

- 1) Taught undergraduate courses in programming and data structures (FORTRAN, LISP, PASCAL, C++, MATLAB), artificial intelligence, discrete structures, computer graphics, algorithms and complexity, and media processing. Taught graduate courses in computer vision, artificial intelligence, and fundamental algorithms and complexity.
- 2) As Associate Chair of the department (2005-2009), Acting Chair (1999-2001), and Graduate Director (1990-1994), familiar with aspects of department academic programs, including recruiting faculty members, instructors, and advising students, scheduling and resourcing courses and laboratories, defining courses, and assessing courses and programs.
- 3) Served as a host for distinguished speakers of the MSU Cognitive Science Program and the MSU Robotics Program, including coordinating visitor programs, pre-talk reading sessions, speaker-student interaction sessions, and hospitality activities.
- 4) Teaching a Computer Vision course at MSU and developing a textbook, problems and projects, and web materials, all public, to support it. Many course graduates have important positions in science and industry. Representing Computer Vision to the Cognitive Science Specialization at MSU.
- 5) Research and software development has resulted in a root measurement system used worldwide by plant and soil scientists and software used to found the small business, ERL,LLC Lansing, to evaluate the design of cars regarding their accommodation to the human body.
- 6) Organizer of several international workshops concerning courses and learning involving computing with images, which dealt primarily with enriching undergraduate education and programming experiences via new courses or integration of image computation into existing courses.
- 7) I am a founding Board member and President (2009—2012) of ITEC-Lansing ([iteclansing.org](http://iteclansing.org)), which is organized to increase opportunity in IT and STEM for mid Michigan middle and HS students. MSU and LCC students work with MSU instructors to teach Lego, Scratch, and Gamestar Mechanic programming as after school and summer camp activities. I have taught sessions in Scratch, Problem-solving with computers, and Computer Science Unplugged. I have also developed and taught popular sessions in MSU's Summer Grandparents University (grand parents + grand kids)
- 8) I have been involved with the Sloane program in our College (Percy Pierre is PI) and have been active in recruiting and mentoring minority and women graduate students for over 15 years. I have advised two successful women PhD graduates and have been on the committee of several others. Five of my PhD graduates have tenured university positions, and a sixth is up for the tenure decision this year.
- 9) I have been active for 10 years in computer science undergraduate program accreditation via service as Program Evaluator for ABET/CAC Commissions.
- 10) Reference/evaluator for many academic promotion decisions at universities other than MSU.

## Thesis Advisees:

Total number of thesis students: MS (7 completed); PhD (14 completed, 1 current); postgraduate scholars sponsored: 3. Five PhD advisees have achieved tenure at other universities and three have served as Dept Chair.