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Faculty Profile

Anthony Reeves

Department: ECE

Title: Professor

Personal Web Site:

<http://www.via.cornell.edu/people/reeves.html>



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Degrees earned:

B.Sc. University of Kent, UK 1970

Ph.D. University of Kent, UK 1973

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Biography:

Reeves has been on the faculty of Cornell University since 1982; previously, from 1976 to 1982, he was an Assistant Professor in the School of Electrical Engineering at Purdue University. He has held visiting faculty positions at the University of Wisconsin, Madison; McGill University, Montreal, P.Q., Canada; and Pavia University, Italy. From 1987 to 1988 he was a member of the faculty of the Department of Computer Science, University of Illinois at Urbana-Champaign. Since 2000 he has also held a faculty position in the Department of Radiology at the Weill Medical College of Cornell University.

Research interests:

My current research program is computer methods for analyzing digital images especially with regards to accurate image measurements and with a primary focus on biomedical applications. In collaboration with radiologists at the Weill Medical College of Cornell University, a main research objective is the automatic detection and diagnosis of lung cancer from Computer Tomography (CT) scans and the computer aided diagnosis of diseases within the chest. Other ongoing collaborative projects are related to multidimensional image analysis including: sphere tracking in microgravity, hip dysplasia in a canine model, and analysis of four dimensional (optical sections recorded over time) video microscope images. An important outgrowth of the work with the Medical College has been the development of unique web-based clinical-study data-management system that includes both clinical data and all medical images. A web-based system to support collaborative research programs involving image analysis has also been developed.



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[Kim Stockton](#)

Selected Publications:

- Reeves, A. P. , R. J. Prokop, S. E. Andrews, and F. P. Kuhl. 1988. Three dimensional shape analysis using moments and Fourier descriptors. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 10(6): 93743.
- Uyar, M. U., and A. P. Reeves. 1988. Fault reconfiguration in a meshconnected MIMD environment. *IEEE Transactions on Computers* 37 (10): 11911205.
- Lyvers, E. P., M. A. Akey, O. R. Mitchell, and A. P. Reeves. 1989. Subpixel measurements using a momentbased edge operator. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 11(12): 12931309.
- Reeves, A. P., and R. W. Taylor. 1989. Identification of three dimensional objects using range information. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 11(4): 40310.
- WillebeekLeMair, M., and A. P. Reeves. 1990. Solving nonuniform problems on SIMD computers: Case study on region growing. *Journal of Parallel and Distributed Computing* 8: 13549.
- Reeves, A. P. 1991. Parallel programming for computer vision. *IEEE Software* 8(6): 5159.
- Chase, C. M., A. L. Cheung, A. P. Reeves and M. R. Smith. 1992. Paragon: A parallel programming environment for scientific applications using communication structures. *Journal of Parallel and Distributed Computing* 16 (2): 7991.