

Publication List

Daniel J. Pack, Ph.D., P.E.

- 1 Daniel Pack, Robert Avanzato, and David Ahlgren, "Fire-Fighting Mobile Robotics and Interdisciplinary Design - Comparative Perspectives," to appear in the *IEEE Transactions on Education*.
- 2 Daniel Pack and Cameron Wright, "A Fast Object Recognition System Using Subspace Representation," submitted to *IEEE Transactions on PAMI* for publication.
- 3 Cameron H.G. Wright and Daniel J. Pack, "Pattern Recognition for Surveillance Networks Using Subspace Representation," submitted to *IEEE Signal Processing Magazine*.
- 4 Cameron Wright, Steve Barrett, Daniel Pack, Mike Wilcox, "Computational Image Processing for a Computer Vision System using Biomimetic Sensors and Eigenspace Object Models," *SPIE's Electronic Imaging 2004 Conference*.
- 4 Cameron Wright, Steve Barrett, Daniel Pack, Mike Wilcox, "Signal Processing for a Biologically-Inspired Vision System using Biomimetic Sensors and Eigenspace Object Models," *Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, California, November 2003.
- 5 Daniel Pack and Barry Mullins, "Toward Finding an Universal Search Algorithm for Swarm Robots," in the *Proceedings 2003 IEEE/RJS Conference on Intelligent Robotic Systems (IROS)*, Las Vegas, Nevada, October 2003.
- 6 Daniel Pack and Barry Mullins, "A Portable Microcontroller-based HTTP Tunneling Activity Detection System," to appear in the *Proceedings of the IEEE 2003 International Conference on System, Man, Cybernetics*, Washington D.C., October 2003.
- 7 Daniel Pack and Cameron Wright, "Comparative Study on Subspace-based Target Recognition Systems," in the *Proceedings of the 7th International IASTED Conference on Computers, Graphics, and Imaging*, Honolulu, Hawaii, August 2003.
- 8 David Bossert, Erlind Royer, Thomas Rathbun, Thomas Schorsch, Al White, Jim Patrey, and Daniel Pack, "Teaching Unmanned Aerial Vehicle (UAV) Concepts at the Undergraduate Level: One Approach," in the *Proceedings of 2003 AAIA Atmospheric Flight Mechanics Conference*, San Francisco, California, August 2003.
- 9 Daniel J. Pack and Barry E. Mullins, "Computational Complexity on Pose Updates for Swarm Robots," in the *Proceedings of Seventh Multi-Conference on Systemics, Cybernetics, and Informatic*, Orlando, Florida, July 2003.
- 10 Joel Perlin, Daniel Pack, Barry Mullins, and Richard Speakman, "Senior Capstone Experience: Flying Robot," in the *Proceedings of 2003 ASEE Annual Conference*, Nashville, Tennessee, June 2003.
- 11 D.J. Pack and C.G.H Wright, "Object Recognition of Occluded Targets Using a Subspace Graph Search Method," in the *Proceedings of the Sixth Multi-Conference on Systemics, Cybernetics, and Informatic*, Orlando, Florida, July 2002.
- 12 Daniel J. Pack, William Strelein, Seth Webster, and Robert Cunningham, "Detecting HTTP Tunneling Activities," in the *Proceedings of the 3rd Annual Information Assurance Workshop*, West Point, New York, June 2002.

- 13 Steven Barrett and Daniel Pack , “Textbooks 101 – A Primer on Writing Your First Book,” in the *Proceedings of 2002 ASEE Annual Conference*, Montreal, Canada, June 2002.
- 14 Barry Mullins and Daniel Pack , “Transition from the 68HC11 to the 68HC12,” In the *Proceedings of 2002 ASEE Annual Conference*, Montreal, Canada, June 2002.
- 15 Daniel Pack, Robert Avanzato, and David Ahlgren, “Fire-Fighting Mobile Robotics and Interdisciplinary Design - Comparative Perspectives,” submitted to *International Journal of Engineering Educators*, 2002.
- 16 S.F. Barrett, M.J. Wilcox, T.E. Olson, D.J. Pack, and C.H.G. Wright, “Modeling a Parallel L4 Neuron Array of the Fly (*Musca domestica*) Vision System with a Sequential Processor,” *ISA Biomedical Sciences Instrumentation*, pp. 477-482, vol. 38, April, 2002.
- 17 Daniel Pack and Steven Barrett, *The 68HC12 Microcontroller: Theory and Applications*, Prentice Hall, New York 2001.
- 18 Peter Henstock, Daniel Pack and Clifford Weinstein, “Toward An Improved Concept-Based Information Retrieval System,” in the *Proceedings of the 24th Annual International Conference on Research and Development in Information Retrieval*, New Orleans, Louisiana, September 2001.
- 19 Daniel Pack and Clifford Weinstein, “The Use of Dynamic Segment Scoring for Language-Independent Question Answering,” in the *Proceedings of the 2001 Human Language Technology Conference*, San Diego, California, March 2001.
- 20 Daniel Pack, “Fast Object Recognition System Using Appearances,” in the *Proceedings of the 2000 IEEE International Conference on Systems, Man, and Cybernetics*, pp. 2781-2788, Nashville, Tennessee, October 2000.
- 21 Daniel Pack, Adam Mankowski, and Greg Freeman, “A Fire-Fighting Robot and Its Impact on Educational Outcomes,” *Computers in Education Journal*, pp.2-5, vol. IX, no. 3, July-September, 1999.
- 22 Daniel J. Pack and H.S. Kang, “Free Gait Control for a Quadruped Walking Robot,” *International Journal of Laboratory Robotics and Automation*, pp. 71-81, vol 11, no. 2, April 1999.
- 23 D.J. Pack and S. Stefanov, “Fire-Fighting Robot: the United States Air Force Academy Experience,” *Computers in Education Journal*, pp. 10-14, vol. IX, no. 2, April-June, 1999.
- 24 S.F. Barrett, D.J. Pack, C.G. Wright, S.A. Stefanov, P.C. Neal, and A.R. Klayton, “Innovative, Student-Centered Educational Tools for the Computer Engineering Curriculum,” *Computers in Education Journal*, pp. 6-11, vol. IX, no. 1, January-March, 1999.
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- 28 Daniel Pack, “Assessing Educational Outcomes for an Engineering Course: A Case Study,” in the *Proceedings of the 1998 Colorado Higher Education Assessment Conference*, Golden, Colorado, April 1998.
- 29 D.J. Pack, L.A. Tamburino, and K. Kurtz, “An Optimal Matching Method using Accumulated Evidence,” in the *Proceedings of the 1998 International Symposium on Optical Science, Engineering, and Instrumentation*, Orlando, FL, April 1998.

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- 31 Greg Toussaint, Daniel Pack, and Randy Haupt, "Teaching Genetic Algorithms Using a Graphical Interface," *International Journal of Computers and Their Application*, vol. 4, no. 2, August 1997.
- 32 Greg Toussaint, Daniel Pack, and Randy Haupt, "A MATLAB Graphical User Interface for Binary and Continuous Parameter Genetic Algorithms," in the *Proceedings of the Third Joint Conference on Information Sciences (JCIS)*, 1997.
- 33 B. Formwalt, M. Hayes, and D. Pittner, and D. Pack, "Undergraduate Research: How can it be made effective?" in the *Proceedings of the 1997 American Society for Engineering Educators Conference*, Milwaukee, Wisconsin, June 1997.
- 34 D. Pack, D. Fabian, N. Seward, B. Horban, and W. Kitch, "United States Air Force Academy Educational Outcomes Assessment Working Group, Phase 2: Final Report", United States Air Force Academy, April 1997.
- 35 Daniel J. Pack, Scott Stefanov, George York, and Pam Neal, "Constructing a Wall-Follower Robot for a Senior Design Project," *Computers in Education Journal*, vol. VII, no. 1, pp. 39 - pp. 43, January-March 1997.
- 36 Daniel J. Pack, Greg Toussaint, and Randy Haupt, "Optimal Robot Trajectory Planning using Genetic Algorithms," in the *Proceedings of the 1996 International Symposium on Optical Science, Engineering, and Instrumentation*, Denver, CO, August 1996.
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- 39 Greg Toussaint, Daniel J. Pack, and Randy Haupt, "Teaching Genetic Algorithms using a Graphical Interface," in the *Proceedings of the 1996 American Society for Engineering Educators Conference*, Washington D.C., June 1996.
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- 42 Daniel J. Pack, "Sensor-Based Planning and Control for a Quadruped Walking Robot," *Ph.D. Thesis*, School of Electrical and Computer Engineering, Purdue University, West Lafayette, IN, 1995.
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- 51 K. Smith, M. Carroll, J. Fox, and D. Pack, "Robot Motion Control using Allegro Common Lisp," *Memo 1-92 robomov*, Robot Vision Laboratory, School of Electrical and Computer Engineering, Purdue University, West Lafayette, IN.
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