Biographical Sketch

Larry D. Pyeatt
Associate Professor
Department of Mathematics and Computer Science
South Dakota School of Mines and Technology
501 East Saint Joseph Street
Rapid City, SD 57701-3995

A. PROFESSIONAL PREPARATION

College/University	Major	Degree and Year
Texas Tech University	Computer Science	Bachelor of Science, 1988
Texas Tech University	Computer Science	Master of Science, 1991
Colorado State University	Computer Science	Doctor of Philisophy, 1999

B. ACADEMIC/PROFESSIONAL APPOINTMENTS

Title	Employer	Dates
Associate Professor	South Dakota School of Mines and Technology	8/2012–present
Associate Department Chair	Texas Tech University at Abilene	1/2008–7/2010
Associate Professor	Texas Tech University	1/2006–7/2012
Visiting Assistant Professor	University of Missouri, Rolla	1/2005–12/2005
Assistant Professor	Texas Tech University	9/1999–12/2004
Lecturer	Colorado State University,	9/1998–9/1999
Senior Information Systems Programmer	Texaco Inc.	9/1991–9/1993

C. PUBLICATIONS

[1] Kyle Caudle, Larry Pyeatt, Patrick Fleming, and Randy Hoover. Flow field forecasting with many predictors. In *Proceedings of the 3rd International Conference on Compute and Data Analysis*, University of Hawaii Maui College, March 14–17 2019. ACM Press. ISBN 978-1-4503-6634-2.

[2] Arisoa S. Randrianasolo and Larry D. Pyeatt. Predicting head-to-head games with a similarity metric and genetic algorithm. In *Proceedings of the Future Technologies Conference*, Vancouver, BC, Canada, November 2018. IEEE.

[3] Kyle A. Caudle, Christer Karlsson, and Larry D. Pyeatt. Using density estimation to detect computer intrusions. In *Proceedings of the Fifth ACM Conference on Data and Application Security and Privacy (CODASPY)*, San Antonio, TX, March 2015. ACM, ACM Press.

[4] Kyle A. Caudle, Christer Karlsson, and Larry D. Pyeatt. Multivariate wavelet density estimation for streaming data: A parallel programming approach. In *JSM Proceedings, Statistical Computing Section*, Boston, MA, August 2014. American Statistical Association.

[5] Brett L Moore, Larry D Pyeatt, Vivekanand Kulkarni, Periklis Panousis, Kevin Padrez, and Anthony G Doufas. Reinforcement learning for closed-loop propofol anesthesia: A study in human volunteers. *Journal of Machine Learning Research*, 15:655–696, 2014.

[6] Arisoa Randrianasolo and Larry D. Pyeatt. Using local regression in Monte Carlo search tree. In *Proceedings of the 4th International Conference on Agents and Artificial Intelligence (ICAART)*, Valamoura, Algarve, Portugal, February 2012. Institute for Systems and Technologies of Information, Control and Communication (INSTICC).

[7] Eddy C. Borera, Brett L. Moore, Anthony G. Doufas, and Larry D. Pyeatt. An adaptive neural network filter for improved patient state estimation in closed-loop anesthesia control. In *Proceedings of the IEEE International Conference on Tools with Artificial Inteligence (ICTAI)*, Boca Raton, Florida, USA, November 7–9 2011.

[8] Shubham Shukla and Larry D. Pyeatt. A guided learning algorithm for solving traveling salesman problem. In *Proceedings of the 2011 International Conference on Artificial Intelligence, ICAI 2011*, Las Vegas, Nevada, July 2011. CSREA Press.

[9] Larry D. Pyeatt and Adele E. Howe. Decision tree function approximation in reinforcement learning. In *Proceedings of the Third International Symposium on Adaptive Systems: Evolutionary Computation & Probabilistic Graphical Models*, pages 70–77, Havana, Cuba, March 2001. Institute of Cybernetics, Mathematics and Physics.

[10] Larry D. Pyeatt and Adele E. Howe. Learning to race: Experiments with a simulated race car. In Diane J. Cook, editor, *Proceedings of the Eleventh International Florida Artificial Intelligence Research Symposium Conference*, pages 357–361, Sanibel Island, FL, May 1998. Florida Artificial Intelligence Research Symposium, AAAI Press.

D. SYNERGISTIC ACTIVITIES

- Developing Assembly Language course with hands-on use of the Raspberry Pi, a low-cost Linux based computer.
- Under contract to publish Assembly Language textbook with Elsevier in 2015.

E. COLLABORATORS AND OTHER AFFILIATIONS

Collaborators and Co-Editors

Eddy C. Borera (Lipscomb University), Anthony G. Doufas (Stanford University Medical Center), Vivek Kulkarni (Stanford School of Medicine), Brett L. Moore (Kinetic Concepts, Inc), Mahdi Naser-Moghadasi (American Airlines), Periklis Panousis (Stanford University School of Medicine), Arisoa Randrianasolo (Lipscomb University), and Shubham Shukla (Amazon.com)

Graduate Advisors and Postdoctoral Sponsors

Adele E. Howe (Colorado State University) and William J. B. Oldham (Texas Tech university)

Thesis Advisor and Postgraduate-Scholar Sponsors

Advised the following 17 graduate students: Tetsuya Idota (South Dakota School of Mines and Technology), Eddy C. Borera (Lipscomb University), Roger Coffey (Current affiliation unknown), Derik Dalton (Current affiliation unknown), Bharani Ellore (Current affiliation unknown), Karan Gupta (Current affiliation unknown), Julian Hooker (Current affiliation unknown), Srividya Kona (Current affiliation unknown), ChengCheng Li (Current affiliation unknown), Brett L. Moore (Kinetic Concepts), Inc), Mahdi NaserMoghadasi (American Airlines), Krishnan Pazhayanoor (Current affiliation unknown), Todd Quasny (NASA), Arisoa Randrianasolo (Lipscomb University), Shubham Shukla (Amazon.com), and Amit Yadav (Current affiliation unknown). Nguyen Bach (Current affiliation unknown), Ajay Bansal (Current affiliation unknown),