Mark E. Lehr
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EDUCATION

2002 March	Ph.D. Applied Statistics	University of California, Riverside
1993 December	MS Statistics	University of California, Riverside
1984 March	MS Engineering	California Polytechnic University Pomona
1979 June	MBA	Northrop University
1978 June	BS Aerospace Engineering	Northrop University

WORK EXPERIENCE

1998-2023	Professor IST Department, RCC
1993-2001	Programming Instructor, CACT Dept, Cal Poly Pomona
1996	Math Associate in Statistics, UCR
1981-1995	Engineering Instructor, Aerospace Engineering, Cal Poly Pomona
2002-2014	COO OmniPlatform Corporation
1998-2001	Chair IST Department, RCC
1989-1992	Section Head System Dynamics, G.D. Pomona

Analysis, Formulation and Implementation of Design

2020-2022	Cornell Certifications in Machine Learning and Data Science
2004	Faculty Fellow NASA WSTF/JSC
1997-1998	Stat Consultant Academic Computing, UCR
1993-1997	Researcher Statistics Department, UCR
1993	Consultant IOLabs, Johnson & Johnson
1990-1991	Programmer Cowan Consulting
1979-1988	Engineer System Requirements, Design Specialist - G.D. Pomona

Areas of Expertise

As an Instructor/Lecturer/Professor → Programming, Artificial Neural Networks,Gas Dynamics, Sub/Supersonic fluids,Numerical Methods,Propulsion, Systems Engineering and Design

As a Researcher → Stochastic Computer Optimization Algorithms such as Simulated Annealing, Genetic Algorithms, Time Series, Non-Gaussian ARMA Processes, Wavelet and Fractal techniques, Image processing,Irregularly spaced Spectral Density Estimation, Pattern Recognition and Neural Networks

As a Manager of Sections 337 and 41-4 at General Dynamics → Phalanx Search - Search/Track - Track-Fire Control, Guidance and Fire Control for the following programs - DIVAD, Assault Breaker, Sparrow, AAAM

TECHNICAL REPORTS AND PUBLICATIONS

Roth, Tim E., Lehr, M. E., and Walker, Jess M., Using the Electrical Current Trace to Diagnose Incipient Type I Pilot Seal Extrusion in PRCS Thruster Pilot-Operated Valves, WSTF-IR-0199-01-05, Jan 24, 2005.

Lehr, M. E. and Saulsberry, Regor., Artificial Neural Network Test Support Development for the Space Shuttle PRCS Thrusters, JSC/WSTF Nag 9-1526 & NNJO4JF93A, Sept 15, 2004.
http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20050202027_2005202143.pdf

Lehr, M. E., Wavelet Spectral Density Estimation of Continuous-Time Stationary Processes under Random Sampling, 2002 Ph.D. Dissertation UCR.

Lehr, M.E., and Keh-Shin Lii, Computing MLE for Non-Gaussian, non-minimum phase ARMA sequences, TOMS algorithms, Oct 1997 and University of California Berkeley Econometrics and Statistics Symposia, sponsored by the National Science Foundation, Aug 1998

Lehr, M.E., and Keh-Shin Lii, Wavelet Spectral Density Estimation under Irregular Sampling, 1997 Asilomar Conference, November 1997.

Lehr, M.E., and Keh-Shin Lii, Automated Mine Detection using Wavelet Analyzing Functions, Mine Technology Symposium, November 1996.

Lehr, M.E., and Keh-Shin Lii, Template basis techniques to Pattern Recognition, Wavelet Applications in Signal and Image Processing IV, Volume 2825, pages 972-981, 6-9 August 1996, Denver Colorado

PROFESSIONAL MEMBERSHIPS

ACM Association of Computing Machinery
MAA Mathematical Association of America
ASA American Statistical Association