Scott C. Evans

BSEE, Math Minor, *summa cum laude,* Virginia Tech (1990)
MSEE University of Connecticut (1998)
PHD EE, RPI (2003)

Dr. Scott C. Evans is a *Principal Scientist Machine Learning* at GE Research in Niskayuna, NY. He has 49 issued patents and over 50 publications in the areas of Machine Learning algorithms, wind analytics, cyber-security, sequence analysis, and wireless network routing / Quality of Service (QoS). Scott holds a PHD in Electrical Engineering from Rensselaer Polytechnic Institute, an MS in Electrical Engineering from the University of Connecticut and a BS in Electrical Engineering from Virginia Tech. Before joining General Electric Research, Scott served as a nuclear-trained Submarine Officer in the United States Navy. Scott has a Secret Security clearance.

Scott teaches Information Theory, Machine Learning and Inference, and Statistical Pattern Matching as an Adjunct Professor in the Graduate School of the College of Engineering and Applied Sciences at the University at Albany (SUNY).

Scott is currently Principal Investigator for applying causal machine learning to optimize and validate wind turbine performance. Recently, he served as machine learning task leader on a $5.6 million IARPA program applying machine learning and causal inference to detect insider threat. Scott was Principal Investigator for projects to estimate wind turbine power output using multi-feature estimation, recommend upgrades to thermal generators, and develop prognostics for cloud based systems. Scott was Principal Investigator for a $1.3 million DARPA program in partnership with the University of California, Riverside to develop algorithms for cyber-security. Scott also led, as co-PI, a grant harnessing technology he pioneered in the area of algorithmic information theory for DNA sequence analysis using Minimum Description Length Principles. He joined GE in 1997 at GE Industrial Systems on the Edison Engineering program where he designed and implemented production software for an electrical substation power quality monitoring system. Scott transferred to GE Research in 1998 to join the communications systems program and pursue his PHD at RPI, which he completed in 2003 while working full time at GE Research. Scott has been a key contributor in developing many technologies, including:

- Causal Inference Based Feature Selection via Algorithmic Information Theory
- Machine Learning and Analytics for Wind Power and Cyber-Security
- Minimum Description Length Data Mining and Time Series Analysis
- Complexity Based Intrusion Detection Systems
- Route Based Network Quality of Service Technologies
- Minimum Description Length DNA Sequence Analysis – MDLcompress
- Low Power Multi-Hop Wireless Sensor Network Protocols

Publications on Google Scholar:
https://scholar.google.com/citations?user=aswkwxAAAAAJ&hl=en

References available upon request.

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Scott C. Evans

Curriculum Vitae

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♦ Education

- Rensselaer Polytechnic Institute: 2003 PHD Electrical Engineering, Advisor: Gary Saulnier

Thesis: "Kolmogorov Complexity Estimation and Analysis for Information System Security"

- The University of Connecticut: 1998 MSEE, Advisor: Lang Tong

Thesis: "Adaptive Re-initialization of the Constant Modulus Algorithm"

- Virginia Polytechnic Institute and State University: 1990 BSEE, minor Math, *summa cum laude*

♦ Experience

GE Research (Sept. 1997 - Present)

Principal Scientist Machine Learning (May 2019 - Present)

Causal Machine Learning Principal Investigator for Renewable Energy (Jan. 2017 - Present).

- Applying Machine learning to optimize and Validate Wind Turbine Power Performance.
- Current Project: *Digital Ghost Cyber Attack Detection Using Causal Machine Learning* (Sept. 2019 - Present).

Machine Learning Ventures and Licencing Program Leader (Jan. 2017 - Dec. 2019).

- Building program to license and commercialize Machine Learning Technologies.

Senior Scientist - Machine Learning (Feb. 2011 - April 2019)

Machine Learning Task Leader for Insider Threat IARPA Project (March 2016 - Dec 2016)

- Key contributor for winning $5.6 million, 3 year program awarded in 2016. Exploring Causal Inference for **S**cience advances to **C**ontinuous **I**nsider **T**hreat **E**valuation (**SCITE**).

Quantitative Analyst for GE Capital (Jan. 2015 - Feb. 2016)

- Developed Monte Carlo Simulations for Probability of Default under Stress Test Scenarios to meet FED requirements.

Principal Investigator *for DARPA Cyber Genome Program, teaming with Lockheed Martin and the University of California Riverside* (June 2010 - Sept. 2011)

- Developed **Pr**o**L**i**F**i**C**: a revolutionary cyber-security system providing **Pr**ovenance, **Li**neage, **F**orensics and **C**lassification.

TRIZ Level 3 Certified - *Expert certification in the Theory of Inventive Problem Solving* (June 2015)

Certified Six Sigma Blackbelt - Completed program in 18 months (Fall 2006)

Lead/Senior Engineer Advanced Comm Systems Lab (Nov. 1998 - Feb. 2011)

- **Led research in Network communications and algorithmic information theory a**pplied to information security, wireless ad-hoc networks and DNA sequence analysis, primarily for DARPA, US Army, Lockheed Martin and GE
- **Led teams in the development and simulation of algorithms/protocols** to detect zero day cyber-attacks, maximize End-to-end Network Quality Service, provide energy efficient wireless sensor networks and provide adaptive learning for system optimization.

Pioneered Minimum Description Length *MDLcompress* Algorithm for DNA Sequence Analysis/Cyber-Security.

GE Industrial Systems (Sept. 1997 - Nov. 1998)

Design Engineer

Technical Leadership (Edison) Program – GE Advanced Course In Engineering (June 1998)

- **Software Engineer and Technical Team Lead** (Sept. 1997 - Nov. 1998)
- Led a team of software developers to add a communicating meter to the GE Power Control System.

University at Albany, College of Engineering

ECE Dept. Adjunct Professor (Jan. 2020 - Present)

- Teaching Graduate Courses in Information Theory, Machine Learning and Inference, and Statistical Pattern Recognition, to ECE and Data Science MS and PH.D. students.

United States Navy: Nuclear Submarine Force (Oct. 1990 - Sept. 1997)
Commissioned Officer
Lead Tactics Instructor: Naval Submarine School, Groton, CT (Oct. 1995 - Sept. 1997)

- Taught pre-deploying submarines current tactical methods and critiqued these units as they trained in simulators. Led a team of five Lieutenants to consolidate curriculum.

- **USS CITY OF CORPUS CHRISTI (SSN 705)** (Aug. 1992 - Oct. 1995)
  - Qualifications Achieved While Onboard:
    - ***Nuclear Propulsion Engineer*** - Rated Best Nuclear Division Officer by Commanding Officer.
    - ***Officer of the Deck*** - Deployment and Battlestations OOD.
    - ***Engineering Officer of the Watch*** - Nuclear Propulsion Plant supervisor.

Chemistry/Radioactive Controls Division Officer (Feb. 1994 - Oct. 1995)

- Monitored chemistry conditions in the nuclear plant while minimizing radiation exposure of crew.

Sonar Division Officer (April 1993 - Feb. 1994)

- Supervised and trained 18 men in maintenance/ops of ships electronic sonar equipment.

Reactor Controls Division Officer (Nov. 1992 - April 1993)

♦ Awards

- 49 Issued Patents
- GE Research award for 50 publications – 2018
- GE Research Dushman Team Award for GE Capital Stress Testing Analytics - 2016
- GE Renewables "Best of the Best" Award for PowerUp Wind Services tenX team - 2014
- GE Research Award for 25 Issued Patents – September 2013
- GE Research Technical Excellence Award – September 2010
- GE Energy Power And Water Innovation Challenge Grant 2010
- Lockheed Martin Shared Vision Excellence in Research Award, 2009
- GE Research Publication award in 2006 for 25 publications
- GE Technical Leadership (Edison) Program Corporate Recognition Award: December 1998
- Received two NAVY ACHIEVEMENT Medals, the NAVY COMMENDATION MEDAL, and the NATO medal for superior military service.
- Received numerous management and merit awards at GE Research

♦ Patents Granted

1. US 10,938,950, Issued March 2, 2021, Hierarchical Data Exchange Management System
2. US 10,815,972, Issued October 27, 2020, Power Ensemble Method for measuring Wind Turbine Entitlement, Validating Performance and Optimizing Settings
3. US 10,605,228, Issued March 31, 2020, Method for Controlling Operation of a Wind Turbine
4. US 10,487,804, Issued November 26, 2019, System and Method for Validating Wind Farm Performance Improvements
5. US 10,346,616, Issued July 9, 2019, Systems and methods for data loss prevention
6. US 10,253,758, Issued April 9, 2019, System and method for optimizing wind farm performance
7. US 10,247,170, Issued April 2, 2019, System and method for controlling a dynamic system
8. US 10,192,050, Issued January 29th, 2019, Methods, systems, apparatus, and storage media for use in detecting anomalous behavior and/or in preventing data loss
9. US 9,644,612, Issued May 9, 2017, Systems and methods for validating wind farm performance measurements
10. US 9,606,518, Issued March 28, 2017, Control system and method of predicting wind turbine power generation
11. US 9,394,899, Issued July 19, 2016, System and method for fault detection in an electrical device
12. US 9,282,008, Issued March 8, 2016, System and methods for monitoring system performance and availability
13. US 9,245,116, Issued January 26, 2016, Systems and Methods for Remote Monitoring, Security, Diagnostics and Prognostics
14. US 9,106,689, Issued August 11, 2015, Intrusion Detection using MDL Clustering
15. US 8,621,629, Issued December 31, 2013, System, Method, and Computer Software Code for Detecting and Computer Intrusion in an Infrastructure Element of a High Value Target

16. US 8,598,980, Issued December 3, 2013, Biometrics with mental/physical state determination methods and systems
17. US 8,572,678, Issued October 29, 2013, Security Policy Flow Down System
18. US 8,547,948, issued October 1, 2013, Antennae Management System
19. US 8,521,773, issued August 27, 2013, System and method for web mining and clustering
20. US 8,375,446, issued February 12, 2013, Intrusion detection using MDL compression
21. US 8,327,443, issued December 12, 2012, MDL compress system and method for signature inference and masquerade intrusion detection
22. US 8,315,241, issued November 20, 2012, Method and apparatus for providing quality of service in wireless networks and sensor networks
23. US 8,312,542, issued November 13, 2012, Network intrusion detection using MDL compress for deep packet inspection
24. US 8,245,302, Issued August 12, 2012: Network attack visualization and response through intelligent icons
25. US 8,245,301, Issued August 12, 2012: Network intrusion detection visualization
26. US 8,046,173, issued October 25, 2011: Method for identifying sub-sequences of interest in a sequence
27. US 7,889,743 issued February 15, 2011: Information dissemination method and system having minimal network bandwidth utilization
28. US 7,839,840 issued November 23, 2010: Method and system for routing traffic in a communication network
29. US 7,809,765 issued October 5, 2010: Sequence identification and analysis
30. US 7,778,265 issued August 17, 2010: Method and apparatus for local adaptive provisioning at a node
31. US 7.747356 issued June 29, 2010: Integrated protection, monitoring, and control system
32. US 7,720,065 issued: May 18, 2010: Method and Apparatus for Biasing of Network Node Packet Prioritization Based on Packet Content
33. US 7,720,013 issued: May 18, 2010: Method and system for classifying digital traffic
34. US 7,489,635 issued February 10, 2009: Routing cost based network congestion control for quality of service
35. US 7,409,716 issued August 5, 2008: System for intrusion detection
36. US 7,313,817 issued December 25, 2007: Data transmission system utilizing efficient complexity estimation of the Kolmogorov complexity for data transmission
37. US 7,234,062 issued June 19, 2007: Authentication of remote appliance messages using an embedded cryptographic device
38. US 7,170,405 issued January 30, 2007: Method and apparatus for interfacing a power line carrier and an appliance
39. US 7,151,329 issued December 19, 2006: Integrated protection, monitoring, and control system
40. US 7,068,612 issued June 27, 2006: Method for communicating information bundled in digital message packets
41. US 7,043,340 issued May 9, 2006: Protection system for power distribution systems
42. US 6,950,725 issued September 27, 2005: Home latch-key web automation system
43. US 6,892,115 issued May 10, 2005: Method and apparatus for optimized centralized critical control architecture for switchgear and power equipment
44. US 6,856,647 issued February 15, 2005: Methods and systems for neutral-to-ground communication
45. US 6,826,267 issued November 30, 2004: Internet Enabled Appliance Command Structure
46. US 6,708,126 issued March 16, 2004: Method and system for measuring current
47. US 6,643,608 issued November 4, 2003: System and method for collecting and analyzing shipment parameter data affecting predicted statistical variables of shipped articles
48. US 6,671,148 issued December 30, 2003: Electronic communicating residential circuit breaker
49. US 6,497,656 issued Dec 24, 2002: Integrated Wireless Broadband Communications Network

♦ External Research Support

- Machine Learning Task Leader and Key Contributor

IAPRA-BAA-15-09-Scientific Advances to Continuous Insider Threat Evaluation (SCITE)
$5.6 Million Dollar program to develop insider threat technologies, partnering with SUNY Albany and Georgia Tech. March 2016 to December 2017

- Principal Investigator

DARPA BAA 10-36--Cyber Genome Program
$1.3 Million Dollar program collaborating with Lockheed Martin and the University California Riverside to develop ProLiFiC: A revolutionary Cyber genetic system providing Provenance, Lineage, Forensics and Classification
Proposal Accepted, April 28th, 2010
Period of performance: June 2010 – September 2011.

- Co Principal investigator

US Army Medical Research and Materiel Command, Department of Defense Breast Cancer Research Program (BCRP), Contract Number W81XWH-0-1-0501
Concept Award "Minimum Description Length sequence analysis to identify relationships between gene mutations, microRNA efficacy and risk for breast cancer" 10/2005-1/2006

- Key Contributor: DARPA Connectionless Networks Program

Contract Number NBCHC030098, "Connectionless Scheduling Protocol." 2003-2004

- DARPA Fault Tolerant Networks Program

Contract Number F30602-01-C-0182, "Imperishable Networks." 2002-2003

- DARPA Information Assurance Program (IASET)

Contract Number F33615-00-C-1629. "Physics of Information." 2000-2002

Security Prognostics Tutorial – Invited for 2016 Annual Conference of PHM Society
https://www.phmsociety.org/events/conference/phm/16/

♦ Invited Presentations and Seminars

SUNY Albany - "Causal Inference via Algorithmic Information Theory," November, 2019.

Cornell University - Seminar "Challenges in Modeling and Control of Wind Energy " May, 2013.

Solomonoff 85th Memorial Conference, Melbourne Australia: November 2011.
Bing Hu, Thanawin Rakthanmanon, Yuan Hao, Scott Evans, Stefano Lonardi and Eamonn Keogh. "Towards Discovering the Intrinsic Cardinality and Dimensionality of Time Series using MDL."

University of California, Riverside, Computer Science Department, November, 2010.
"Minimum Description Length (MDL) Learning, Prediction and Classification with Application to Information Security and DNA Sequence Analysis."

Notre Dame University – Algorithmic Randomness Conference – May, 2010.
"Recent Applications of the Algorithmic Minimum Sufficient Statistic."

♦ Security Clearance

Secret.

♦ Papers

1. Goldfarb, D., and Evans, S., "Causal Inference via Conditional Kolmogorov Complexity Using MDL Binning," Proceedings, Machine Learning and Data Mining in Pattern Recognition, Petra Perner, Ed, 16th International Conference on Machine Learning and Data Mining, MLDM 2020.
2. Evans, S., Zhang, Z., Iyengar, S., Gregg, P., Jonkhof, M., "Wind Farm Performance Validation through Machine Learning: Sector-wise Honest Brokers," IEEE Aerospace Conference, Big Sky Montana, March, 2015. http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=7119130
3. Evans, S. C., Zhang, Z., Iyengar, S., Chen, J., Hilton, J., Gregg, P., Eldridge, D., Jonkhof, M., McCulloch, C., "Towards Wind Farm Performance Optimization through Empirical Models," 2014 IEEE Aerospace Conference, Big Sky Montana, March 3-7 2014
4. Evans, S. C., Mishra, P., Yan, W. and Bouchra Bouqata, "Security Prognostics: Cyber Meets PHM," 2013 IEEE International Conference on Prognostics and Health Management, Gaithersburg, MD, June 24-27 2013
5. Deb, Budhaditya, Shah, Mohak, Evans, S. C., Mehta, Manoj, Gargulak, Anthony, Lasky, Tom, "Towards System Level Prognostics in the Cloud: Assuring Availability and Quality of Service of Cloud hosted Systems," ," 2013 IEEE International Conference on Prognostics and Health Management, Gaithersburg, MD, June 24-27 2013
6. Thanawin Rakthanmanon, Eamonn J. Keogh, Stefano Lonardi, Scott Evans, "MDL-based time series clustering," Knowledge and Information Systems Journal, Vol 32, No. 3, September 2012
7. Bing Hu, Thanawin Rakthanmanon, Yuan Hao, Scott Evans, Stefano Lonardi, and Eamonn Keogh (2011). "Discovering the Intrinsic Cardinality and Dimensionality of Time Series using MDL," ICDM 2011
8. Thanawin Rakthanmanon, Eamonn Keogh, Stefano Lonardi, and Scott Evans (2011). "Time Series Epenthesis: Clustering Time Series Streams Requires Ignoring Some Data," ICDM 2011
9. Evans, S. C., Markham, T. S., Bejtlich, R., Barnett, B., Scholz, B., Mitchell, R., and Yan, W. Impson, J. and Steinbrecher, E., "Network Attack Visualization And Response Through Intelligent Icons", Proceedings of MILCOM 2009, Boston Mass, October 2009
10. Evans, S. C., Yan, W. Scholz, B. J., Barnett, B., Markham, T. S., Impson, J., and Steinbrecher, E. "Towards Modeling and Detection of Polymorphic Network Attacks Using Grammar Based Learning with Support Vector Machines," Proc. of MILCOM 2009, Boston, October 2009.
11. Markham, T. S., Evans, S. C., Impson, J. and Steinbrecher, E., "Implementation of an Incremental MDL-Based Two Part Compression Algorithm for Model Inference," Data Compression Conference, 2009
12. Eiland, E., Evans, S.C., Markham, T. S., Barnett, B., Impson, J. and Steinbrecher, E., "Network Intrusion Detection: Using MDLcompress for Deep Packet Inspection," MILCOM 2008
13. Evans, S. C., Bejtlich, R., Markham, T. S., Impson, J., and Steinbrecher, E., "Towards Zero-Day Attack Detection through Intelligent Icon Visualization of MDL Model Proximity", VizSec 2008,
14. Deb, B. Evans, S.C. Tomlinson, H.W. Iyer, S. Kuthethoor, G, "Quality of Service In Wireless Sensor Networks through the Connectionless Scheduling Protocol," IEEE Aerospace Conference, Big Sky, Montana 2008**,**
15. Evans, S. C., Kourtidis, A., Markham, T. S., Miller, J., Conklin, D, and Torres, A. "microRNA Target Detection and Analysis for Genes Related to Breast Cancer Using MDLcompress," EUROSIP Journal on Bioinformatics and Systems Biology, Special issue on Information Theoretic Methods for Bioinformatics, Vol 2007, Article ID 43670
16. Evans, S. C., Eiland, E., Markham, T. S., Impson, J., and Laczo, A., "MDLcompress for Intrusion Detection: Signature Inference and Masquerade Attack," MILCOM, October 2007
17. Liu, P. Evans, S. C., and Weerakoon, I., "Multimedia QoS through Content Aware Triage: An Integrated DiffServ Framework," MILCOM 2007, Orlando, FL, October 2007
18. Evans, S. C**.,** Markham, T. S., Liu, P., and Weerakoon, I. "Network Quality of Service through Local Adaptive Provisioning (LAP)," MILCOM 2007, Orlando, FL, October 2007
19. Evans, S. C., Markham, T. S., Torres, A, Kourtidis, A., Conklin, D., "An Improved Minimum Description Length Learning Algorithm for Nucleotide Sequence Analysis," Proceedings of Asilomar Conference on Signals, Systems and Computers, November 2006.
20. Evans, S. C., Liu, P., Rothe, A., Goebel, K., Yan, W., Weerakoon, I., and Egan, M. "Adaptive Statistical QoS: Learning Parameters to Maximize End-to-End Network Goodput," MILCOM 2006, Washington D.C., October 2006.
21. Van Stralen, N, Imer, O, Mitchell, R, Evans, S. C. and Iyer, S., "A Multi-Band Random Access Messaging Protocol," MILCOM 2006,

22. Evans, S. C., Torres, A. and Miller, J., "MicroRNA Target Motif Detection and Analysis using The Optimal Symbol Compression Ratio (OSCR) Minimum Description Length Grammar Inference Algorithm," GE Research Technical Report 2006GRC223, March 2006.
23. Evans, S. C., Van Stralen, N., Hershey, J. and Tomlinson, H. "Energy Minimization in Wireless Sensor Networks Through an Adaptive Connectionless Scheduling Protocol," MILCOM 2005, Atlantic City, NJ, October 2005.
24. Evans, S. C., Liu, P., Hartman, M., Egan, M. and Weerakoon, I., "End-to-End QoS through Distress Biased Services: A Triage Approach" MILCOM 2005, Atlantic City, N.J. Oct 2005.
25. Evans, S., Pearlman, M., Hartman, M., Rothe, Egan, M. and Leiva, M., "Route Based QoS and The Biased Early Drop (BED) Algorithm," The Second International Conference on Quality of Service and Heterogeneous Wired/Wireless Networks, QSHINE 2005, Orlando, August, 2005.
26. Liu, P., Evans, S., and Weerakoon, I. "Modeling and Simulation of End-to-End QoS through Distress Biased Differentiated Service in OPNET," OPNETWORK 2005.
27. Abrams, M., Bonissone, P., Evans, S. C., Garbiras, M, Goebel, K., Hoebel, L. and Edwards, G. "Information Processing for Crisis Response in a Publish and Subscribe Information Environment," GE Research Technical Report 2004GRC383, November 2004.
28. Evans, S. C., Barnett, B., Bush, S. F. and Saulnier, G. J., "Minimum Description Length Principles for Detection and Classification of FTP Exploits," MILCOM, Monterrey, CA. Oct 31-Nov 3, 2004.
29. Evans, S. C., Van Stralen, N., "Energy Minimization in Wireless Sensor Networks through a Connectionless Scheduling Protocol," GE Research Technical report 2004grc240, July 2004.
30. Evans, S. C. PhD Thesis, "Kolmogorov Complexity Estimation and Application for Information System Security," Rensselaer Polytechnic Institute, Troy, NY, July 2003.
31. Evans, S. C., Bush, S. F., and. Saulnier, G. J. "A New Universal Compression Algorithm and Estimator of Algorithmic Minimum Sufficient Statistic," DIMACS workshop on Complexity and Inference, June, 2003 http://www.stat.ucla.edu/~cocteau/dimacs/evans.pdf
32. Evans, S. C., Hershey, J. E., and Saulnier, G. J. "Kolmogorov Complexity Estimation and Analysis," SCI 2002, Orlando, FL.
33. Evans, S. C. Barnett, B. "Conservation of Complexity for Network Security", MILCOM 2002, October 7-10, 2002, Anaheim CA.
34. Evans, S. C. and Hershey, J. E. "A Two-Stage Complexity Estimator," GE Research Technical Report 2002GRC197, August, 2002.
35. Evans, S. C, and Bush, S. F. ``Symbol Compression Ratio for String Compression and Estimation of Kolmogorov Complexity," GE Research Technical Report 2001CRD159, November 2001.
36. Kulkarni, A. B., Bush, S. F. and Evans, S. C. ``Detecting Distributed Denial-of-Service Attacks using Kolmogorov Complexity Metrics," GE Research Technical Report 2001CRD176 December 2001.
37. Bush, S. F., and Evans, S. C., "Kolmogorov Complexity for Information Assurance." GE Research Technical Report 2001CRD148, October, 2001
38. Bush, S. F., and Evans, S. C., "Complexity Based Information Assurance." GE Research Technical Report 2001CRD084, October, 2001
39. Evans, S, Bush, S. F., and Hershey, J., "Information Assurance through Kolmogorov Complexity", DARPA Information Survivability Conference & Exposition II, June 2001, Anaheim, CA. Proc Vol. 2, pp 322-331. http://ieeexplore.ieee.org/iel5/7418/20160/00932183.pdf
40. Bush, S.F, Kulkarni, A, Evans, S. C. and Hershey, J., "Active Networks for GE Businesses," GE Research Technical Report 2000CRD052, June 2000
41. Evans, S. C. and Tong, L. "On-Line Adaptive Re-initialization of the Constant Modulus Algorithm," IEEE Transactions on Communications, vol. 48, no. 4, pp. 537-539, Apr., 2000.
42. Evans, S.C. and Hershey, J.E. "Regarding Some GE-owned Intellectual Property for Enabling Residential Power Line Communications Using Ground-Neutral Circuits," GE Research Technical Report 2000CRD008, February 2000.
43. Bush, S. F., Kulkarni, A., Evans, S. C., and Gallup, L., "Active Jitter Control," 7th International IS&N Conference, Intelligence in Services and Networks (ISN) '00, February 23-25, 2000, Kavouri, Athens, Greece
44. Evans, S. C. M.S. Thesis, "Adaptive Re-initialization of the Constant Modulus Algorithm," The University of Connecticut, Storrs, CT. May 1998.
45. Evans, S. C. and Lang Tong, "Adaptive Channel Surfing Re-initialization of the Constant Modulus Algorithm." 31st Asilomar Conference on Signals Systems and Computers, Nov 1997.