

Haniph A. Latchman

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ACADEMIC

Oxford University, England, October 1983 - July 1986

Rhodes Scholar in Residence

Degree: D. Phil.

Dissertation Title "Frequency Response Methods for Uncertain Multivariable Systems."

- *Award: **Best Paper**, CONTROL 85 Conference, Cambridge England, 1985*

University of The West Indies, Trinidad and Tobago, 1978-1981

*University of the West Indies **Open Scholar***

Degree: B.Sc. (1st Class Honors) in Electrical Engineering

Major areas: Control Systems, Communications and Electronics.

- *Award: **Best Electrical Engineering Project**, 1981.*

St. Jago High School, Spanish Town Jamaica, 1971-1978

11 G.C.E. O-Levels and 6 G.C.E. A-Levels (Cambridge University)

- *Award: **UWI Open Scholarship**, 1978.*

Other Schools:

Elementary: *Bethel Basic School, Bog Walk St. Catherine, Jamaica*

Primary: *Tulloch Primary, Bog Walk, St. Catherine*

Primary: *Crescent Primary, Spanish Town St. Catherine*

CONSULTING

- Information Technology Consultant, Qualitech Computer Services, 1987-2006
- Telecommunications Consultant, EPRI and NLDN, 1989-1990
- Internet Consultant, Guardian Newspaper, Trinidad and Tobago 1994
- Network and Internet Consultant, Jamaica Daily Gleaner, 1995
- Computer Forensics Consultant, Heinrich Gordon, Ft. Lauderdale 1999-2000
- Computer Forensics and Internet Expert Witness, Federal Public Defenders , Gainesville Florida, 1999
- Telecommunications Consultant and Expert Witness, Akerman Senterfitt, Orlando Florida, 2000
- Telecommunications Consultant and Expert Witness, Foley and Lardner, Orlando, Florida, 2002-2003.
- Computer Forensics Consultant, Florida Power and Light and David Mishael, PA, Miami Florida, March 2004- December 2005
- Network Consultant, Jamaica Online Information Services, 1992-2006

PROFESSIONAL

University of Florida Department of Electrical Engineering

Professor of Electrical and Computer Engineering, June 2003 - present

Associate Professor of Electrical and Computer Engineering, June 1992- June 2003
Assistant Professor of Electrical Engineering, December 1986 - June 1992.

Director and Founder, *Laboratory for Information Systems and Telecommunications (LIST)*,
1991 - present.

Co-director, *Research Laboratory for Control Systems and Avionics*, 1989 - present.

Czech Technical University of Prague (Fulbright Fellowship)

Visiting Professor, Circuit Theory, January - July 2001

Ecole Polytechnique Federal de Lausanne

Visiting Professor, Institut d'automatique, May 1998 – July 1998

University of the West Indies

Visiting Lecturer, Computer Science Department, January 1994 - May 1994

External Examiner for M.S. Thesis in Applied Physics, June 1992, 1995

External Examiner for University-wide Applied Physics Program, 1993-1995

Stanford University

Visiting Associate Professor of Electrical Engineering, September 1993 - January 1994

University of Bologna, Italy

Visiting Associate Professor of Electrical Engineering, December 1991 - January 1992

Oxford University

Tutor in Mathematics and Numerical Analysis, 1984-1986.

Jamaica Telephone Company Ltd., Kingston Jamaica

Transmission Engineer, 1981-1986.

- *Award: Managing Director's Award for Excellence, 1983*

AWARDS

1988 TBP EE Teacher of the Year Award

1988 IEEE/HKN Outstanding Undergraduate Instructor

1988 Supervisor of the Outstanding Undergraduate Research Project

1989 Supervisor of the Outstanding Undergraduate Design Project

1989 TBP Award for Excellence in Undergraduate Engineering Education

1990 Elected As Eminent Engineer to Membership in TBP,

1990 Best Paper Award, Computational Applications Session, American Control Conference, San

1990 Supervisor of the Outstanding Ph.D. Dissertation

1990 Outstanding Instructor of Electrical Engineering Core Course

1990 Supervisor of Outstanding Undergraduate Design Project

1990 College of Engineering Teacher of the Year Award

1991 Best Paper Award, Robustness Analysis Session, American Control Conference, Boston,

1993 University of Florida Teaching Improvement Project (TIP) Award

1994-1998 BellSouth Scholar

1995 Best Paper Award, Jamaica Communications Conference (JamCon95), Ocho Rios, Jamaica

1996 Listed in "International Who's Who of Professional Management"

1997 IEEE Senior Member

1998 College of Engineering Teacher of the Year Award

1998 University of Florida Teacher of the Year

1998 Teaching Improvement Project (TIP) Award
1999 IEEE 2000 Undergraduate Teaching Award
2000 Recipient of Boeing Welliver Summer Fellowship, June –August 2000
2001 Recipient of Fullbright Fellowship, Czech Technical University of Prague, January – July 2001
2002 Best Paper Award, ACM MSWiM
2003 Best Paper Award, ICCCT

COURSES

Undergraduate Courses: *Electric Circuits I, Electric Circuits II, Signals and Systems, Communications Laboratory, Communication Systems and Components, Engineering Design, Noise in Devices and Components, Linear Systems Theory (Stanford), Linear Control Systems, Senior Design, State Variables, Analytical Methods in Electrical Engineering*

Graduate Courses: *Computer Communications, Modern Control I, Multivariable Control, and Robust Control Systems, Queueing Theory and Data Communications, Linear Systems, Digital Filters, Wireless Communications, Introduction to Digital Signal Processing, Digital Control Systems, Foundations of Digital Signal process,*

Distance Teaching: *Graduate Courses in Communications and Control Systems also taught via Videotapes and Satellite with the National Technological University (NTU) and the Florida Engineering Education Delivery System (FEEDS). Also taught at Stanford University and at Motorola in Plantation Florida via live two-way videoconferencing links. Pioneered the use of streaming audio and video for live delivery of courses via the Internet with ALN access to archived multimedia course materials.*

SERVICE

University College and Departmental Committees

Member of Department Faculty Search Committee, September 2006- present
Member of Department Curriculum Committee, 2005-present
Member of the University of Florida Teacher of the Year Selection Committee, 2002.
Faculty Advisor for Instrumentation Society of America – UF Chapter
Member, University Distance Continuing and Executive Education (DCE) Committee, 2000
Campus Representative, SUCCEED, University of Florida Team Leader, 1993-2000
Member of the Board, University Center for Excellence in Teaching (UCET), 1998-present
Member, College Distance Education Committee 1996-1998
Member, Department Computer Coordination and Advisory Committee, 1997-present
Member, University Communication and Information Technology (CIT) Committee 1995-1997
Chair, Department Computer Coordination and Advisory Committee, 1993-1997
Member, Department Computer Coordination and Advisory Committee, 1997-present
Coordinator, Systems and Control Area, 1993-1996
Member, Department Teaching Evaluation Committee 1994-1998
Member of the Board of the University Center for Excellence in Teaching, 1994-present
Member of the University Senate, 1992-1994
Member, Rhodes/Marshall Scholarship Selection Committee, 1991- present

Service to the Profession

Associate Editor for IEEE Transactions on Education, 1998-present
Member IEEE Education Society Administration Committee, December 2002- present
Panel Organizer and Chair, Powerline Communications, ICC 2003), Anchorage Alaska, May 2003
Guest Editor, International Journal on Communication Systems – Powerline Communications, April, 2003
Guest Editor, Special Issue of the IEEE Communication Magazine – Powerline LANs, April, 2003.
Member of the Program Committee, ITRE Conference, August 5-8, 2003 New Jersey
Member of the Organizing Committee, 5th International Conference on Information Technology Based Higher Education and Training, June 2-5, 2004, Istanbul, Turkey
Member of the Organizing Committee, 4th International Conference on Information Technology Based Higher Education and Training, July 7-9 2003, Markesh, Morocco
Member of the Organizing Committee, 3rd International Conference on Information Technology Based Higher Education and Training, July 4-6 2002, Budapest Hungary.
Session Chair, Robustness with Parametric Uncertainties, 2002 IEEE Conference on Decision and Control (CDC), Las Vegas Nevada, December 2002.
Session Chair and Organizer, 2002 Conference on Control Applications (CCA), September 2002, Scotland
Session Organizer and Chair, The Eighth Sloan-C International Conference on Asynchronous Learning Networks (ALN), Online Laboratories and Interactive Simulations in ALNs, Orlando, Florida, November 2002
Guest Editor, Special Issue of the International Journal of Robust and Nonlinear Control, December 2001.
Member of the Organizing Committee, 2nd International ITHET Conference, July 4-6, 2001, Kumamoto Japan.
Member of Steering Committee for International Conference on Engineering Research Technologies, Sibiu Romania
Session Organizer and Chairman, 5th International ALN Conference, 2000
Session Organizer and Chairman, 4th International ALN Conference, 1999
Session Chair 1988 ACC
Session Chair 1989 ACC
Session Chair 1998 CCA
Reviewer for International Journal of Control, 1990-present
Reviewer for IEEE Transactions on Control, 1989-present
Reviewer for IEEE Transactions on DSP, 1995-present
Reviewer for IEEE Transactions on Education, 1995-present
Reviewer for Interactive Multimedia Electronic Journal of Computer Enhanced Learning, 1999-present
Reviewer for John Wiley, 1990-present
Reviewer for Prentice Hall 1990-present
Reviewer for McGraw Hill 1990-present
Reviewer for Oxford University Press 1995-present
Reviewer for IEEE Signal Processing Letters 1995-present
Review for the National Science Foundation 1997

Professional Memberships

Senior Member IEEE, 1987-present

- *Member Communication, Control Systems, Education and Computer Societies*

RESEARCH

Current Research Interests

- *Robustness for Uncertain Multivariable Feedback Control Systems and Computer Control Systems*
- *Communications and Information Theory and Computer Networks, Compression Technologies for Packet and Wireless Networks*

- *Asynchronous Learning Networks and Information Technology-Enhanced Learning*

Selected Externally Funded Projects (Total of \$3.55M in the last 10 years)

ROLE	TOTAL	DIRECT COSTS	INDIRECT COSTS
Principal Investigator	\$1,621,566	\$1,411,557	\$210,009
Co-PI	\$1,933,725	\$1,869,699	\$64,026
TOTAL	\$3,555,291.00	\$3,281,256	\$274,035.00

Other Ongoing Research Projects

- *Robust Multivariable Control Systems: Analysis and Synthesis*
- *Computer-aided Control System Design*
- *The Calculation of the Structured Singular Value*
- *Robustness Analysis in the Presence of Parametric Uncertainties*
- *ISDN: Research and Applications*
- *Assistive Communications for the Disabled*
- *Low and Variable Bit-rate Speech Coding*
- *Integrated Computer-aided Navigation*
- *Network Management for Frame Relay Mans*
- *ATM Networks with Terrestrial and Space Segment*
- *A Virtual Environment for Teaching Control Systems*
- *An ISDN LAN/BRIDGE*
- *Voice Messaging and Automated Response Systems*
- *Packet Telephony*
- *WorldWide Controls Library - Virtual Online Laboratories and Interactive Simulations*
- *Collaborative Online Laboratories and Interactive Simulations in Collegiate and K-12 Education*

Equipment Donations

- *Intel - 8096 Micro-controller development system - \$15,000*
- *Southern Bell - LSI 11 computer system - \$20,000*
- *Motorola - 68HC11 Microcontrollers - \$4,000*
- *Intel - Above-boards and memory - \$3,000*
- *Southern Bell - Digital PABX \$20,000*
- *Mitel - ISDN Express cards and support chips - \$6,000*
- *Southern Bell - ISDN Voice/Data/Video Network - \$150,000*
- *Texas Instruments - C-25 and C-30 DSP Packages - \$10,000*
- *Computone - X-terminals and Communications Equipment - \$17,000*
- *Automated Logic - Environment Control Systems Laboratory and Eikon Software - \$29,000*
- *Harris Corporation - Wireless LANS and Compression, Software and Hardware - \$4,000.00*

Graduate Committee Activities

Type	Number
Ph.D. Committee Chair	24
Ph.D. Committee Member	50
MS Committee Chair	33
MS Committee Member	45

Ph.D. Graduates

1. **Jeff Norris**, "Analysis of Multivariable Systems in the Presence of Uncertainties", **1990**
2. **Jose Letra**, "Robust Stability Analysis of Systems Under Parametric Uncertainties", **1991**
3. **Lu Shang-yi**, "Integrated Traffic Control Mechanism For ATM Networks", **1994**
4. **Kwang Hyun** "Codebook-based High Quality Audio Coder Using Wavelet Transforms", **1996**
5. **Wen-yen Fu**, "A Feedback Flow Control Scheme for Self Similar Traffic in ATM Networks", **1997**
6. **Kuo-Huei Yen**, "Robustness Analysis of Interval Systems",
7. **Varadharajan Rhadamani Basker**, "Design of Advanced Control Systems for High Performance and Stability under Uncertainty", **1998**
8. **Ali Almutairi**, "Design Issues for Minimum Mean Square Error (MMSE) Based-Receiver CDMA Systems", **2000**
9. **Y. Kwon**, *Medium Access Control Protocols for Wireless Networks*, **2002**
10. **C. Baab**, *MPDA Revisited in the Context of Critical Direction Theory*, **2002**
11. **Baowei Ji**, *Robust Control Design and Analysis with Parametric Uncertainties*, **2004**
12. **K. Saleh**, *Sliding Mode Control and Robustness Analysis*, **2004**
13. **Yu-Ju Lin** *Broadband TDMA protocol with QoS Performance for Powerline Communications*, **2004**
14. **M.K. Lee** *Multimedia Traffic Characterization and Performance Measurements for Powerline LANs*, **2004**
15. **Hossein Asghari**, *Bandwidth Efficient Forward Error Correcting Codes for Impulse Noise*, **December, 2005**
16. **K. Tripathi**, *Wireless and Powerline LANs for Multimedia Traffic*, **2006**
17. **S. Katar**, *Quality of Service Design Issues in Multimedia Communications Over Power Line Networks*, **May, 2006**.
18. **B.J. Park**, *A Design and Analysis of Reliable and Enhanced Fast Handover Scheme for Mobility Management in IP-based Wireless/Mobile Networks*, **May, 2007**
19. **J. D. Lee**, *Optimal Medium Access Control Protocols for Wireless and Powerline Networking*, **August 2008**
20. **Kyoungnam Seo**, *Noise Mitigation in Wireless and Powerline Communications*, **August 2009**
21. **Sung-uk Lee**, *Multimedia Traffic Analysis and Network Design*, **May 2010**
22. **Kyungwoo Kim**, *Modeling And Performance Analysis Of Multimedia Traffic Over Communication Networks*, **May 2012**
23. **Jungeun. Son**, *Robust Control Design with Parametric Uncertainties*, **August 2012**
24. **Young Jun Lee**, *Conquering The Harsh Plc Channel To Enable QoS Guaranteed Multimedia Home Networks*, **May 2013**

Current Ph.D. Students

1. **Anim Amarsingh**, *Powerline Communications and Smart Grids*
2. **Carlton Thompson**, *Converged IP-based Telecommunications*
3. **Muhareem Ayar**, *Communications for SmartGrid*

M.S. (Thesis) Graduates

1. Neal Flanagan	2. Srivatsan Rajagopal
3. Peter Young	4. Joeseeph Larkin
5. Dennis Weilert	6. Tirtha Roy
7. Stephen Varosi	8. Jamie Mulford
9. Felipe Alvarez del Pino	10. Clint Masters
11. Carol C. Jackson	12. Michael Kerlan
13. Amin Meghani	14. Christophe Salzmann
15. Raja Banerjea	16. Werayuth Charoenruengkit
17. Reid Carlisle	18. Sudarsan Vasudevan
19. Attique Ahmed	20. Carlos Rivera
21. Azhar Ahmed Khan	22. Srinivas Katar
23. Abdul Majid Khan	24. Sriram Subramanian
25. Satyaranjan Mukhopadhyay	26. Jose Sanchez
27. Syed Ikram Ali	28. Sanjeev Thottapilly
29. Anwer Sultan	30. Anuj Mundi
31. Mahesh Ramachandran	32. Gautam Batra
33. Muhareem Ayar	

Current M.S. Thesis Projects

IP Telephony
Inverted Pendulum

Undergraduate Projects:

Energy Management System and Building Automation
Aquaculture Control Systems
Lightning Monitoring System
Environmental Control Systems
Computer-aided communications for the severely handicapped
Telemanipulation and Telepresence - Virtual Control Laboratory

Undergraduate Student Projects

IP Telephony
Inverted Pendulum

PUBLICATIONS

Books

1. Haniph A. Latchman, Srinivas Katar, Larry Yonge and Sherman Gavette, "*HomePlug AV and IEEE 1901 – A Handbook for PLC Designers and Users, Pages 1-389, IEEE Press / Wiley, 2013*"

2. H. Latchman, "*Linear Control Systems — A First Course*", ISBN # 0471-38783-5, Pages 1-205, **John Wiley & Sons**, 1999.
3. H. Latchman, "*Computer Communication Networks and the Internet*", ISBN 0-07-033952-4, Pages 1-223, **McGraw Hill** 1997.
4. H. Latchman Jung Eun Son and Kartikeya Tripathi, "*Control Systems Analysis and Design – A Laboratory Manual and Handbook*", ISBN 0-470-08217-8 **John Wiley & Sons**, May, 2006
5. H. Latchman Jung Eun Son and Kartikeya Tripathi, "*Control Systems Analysis and Design – A Laboratory Manual and Handbook*", 2nd Edition, ISBN 0-470-08217-8 **John Wiley & Sons**, January 2010
6. Haniph A. Latchman, "*Frequency Response Methods for Uncertain Systems*", in preparation
7. Haniph A. Latchman, "*Computer Networks and Queuing Theory*", in preparation for McGraw Hill
8. Haniph A. Latchman, "*Modern Control Engineering - A Neo-Classical Approach*", in preparation for Wiley/IEEE PRESS.
9. Haniph A. Latchman, Moises Ribeiro, Powerline Communication Principles and Applications, In Preparation
10. Haniph A. Latchman, "The Mathematics of Engineering" in Preparation

Journal Publications

1. Haniph A. Latchman, Stefano Galli, and Larry Yonge, "*Multimedia Powerline Communication Systems*", **POWER LINE COMMUNICATIONS - Theory and Applications for Narrowband and Broadband Communications Over Power Lines**, 2nd Ed, 20 pages, John Wiley, accepted
2. Amarsingh, A, H. Latchman, D. Yang, H. Latchman, "Narrowband Power Line Communications: Enabling the Smart Grid", **IEEE Potentials Magazine** Vol 33 Issue 1, pages 16-21, 2014. (Accepted February 2013, revised March 2013, Appeared January 7, 2014)
3. Amarsingh, A, H. Latchman, D. Yang, H. Latchman, "Design and Return on Investment Analysis of Residential Solar Photovoltaic Systems", **IEEE Potentials Magazine**, to appear. (Accepted August 2013, revised September 2013)
4. Carlton Andre Thompson, Haniph A. Latchman, Nathan Angelacos, Bharath Kumar Pareek, "A Distributed IP-Based Telecommunication System Using SIP" **International Journal of Computer Networks & Communications (IJCNC)** Vol.5, No.6, pp 121-136, November 2013
5. Haniph. A. Latchman, N. Angelacos and N. Copa, "Enterprise VoIP Solutions With Alpine Linux," 2011. pages 68
6. Sunguk Lee, Haniph A. Latchman, Byungjoo Park "Efficient Handover Scheme of Proxy Mobile IPv6 in Wireless Local Area Networks" **International Journal of Multimedia and Ubiquitous Engineering**, Vol 5. No. 2, pp 21-38, 2010
7. Kyoungnam Seo* and Haniph Latchman, "Joint Transceiver Optimization in MC-CDMA Systems," **IEICE Transactions on Communications**, Vol. E92-B No. 98, pp 2675-2683, 2010
8. Kyungwoo Kim*, Haniph Latchman, "Statistical Traffic Modeling of MPEG Frame Size: Experiments and Analysis", In Press, **Journal of Systems, Cybernetics and Informatics**, vol.7, no.6, pp. 54-59, 2010.

9. Kyungwoo Kim, Haniph Latchman, "Design and Performance Analysis of an OLSR-based Mesh Networks", in preparation, 2010
10. Sunguk Lee and Haniph A. Latchman, "Efficient Proxy Mobile IPv6 protocol for reducing signaling cost", in preparation, 2010
11. Haniph A. Latchman and Larry Yonge, "*Multimedia Powerline Communication Systems*", **POWER LINE COMMUNICATIONS - Theory and Applications for Narrowband and Broadband Communications Over Power Lines**, pp 363-383, John Wiley, 2010
12. Latchman, Haniph and Sung uk Lee, "*Industry Specifications for Powerline Communication Systems*", **POWER LINE COMMUNICATIONS - Theory and Applications for Narrowband and Broadband Communications Over Power Lines**, pp 443-354, John Wiley, 2010
13. Sunguk Lee, Haniph A. Latchman, Byungjoo Park "ELRP-Enhanced Limited Round Robin Mechanism using priority Policy over Bluetooth Networks" **International journal of Advanced Science and Technology (IJAST)** Volume.6, pp.61-70 , 2009
14. Yu-Ju Lin, Sunguk Lee, Haniph A. Latchman, Byungjoo park "EVGATOR An Enhanced Visualization Simulator for Networking Protocol Analysis" **International Journal of Software Engineering and Its Applications**, Vol..3, No..3, pp 19-32, 2009
15. Latchman, Haniph, Srinvas Katar and Larry Yonge, "An Efficient Powerline Communication MAC for Broadband Multimedia" submitted to **International Journal On Communication Systems**, May 2008.
16. Katar, S.; Krishnam, M.; Newman, R., and Latchman, H., "Harnessing The Potential Of Powerline Communications Using The Homeplug Av Standard", **RF Design**, pp 12-15, August 2008
17. Byungjoo Park, Haniph Latchman, "A Design and Analysis of Seamless Media Streaming Scheme in Mobile IPv6 Networks", *In Revision*, **IEEE Transaction on Broadcasting**, Nov., 2006
18. J. D. Lee, K. Tripathi, H. A. Latchman and J. McNair, "*Population based Adaptive Tuning of Constant Contention Window for HomePlug 1.0*", **International Journal of Power and Energy Systems**, Vol. 203-4065, pp. 192-205, 2008.
19. Byungjoo Park, Haniph Latchman, "Performance Enhancement for Fast Handover for Mobile IPv6 by Reducing Out-of-Sequence Packets", **Wireless Personal Communications (WIRE)**, Vol 10.1007/s11277-008, pp. 9455-8, March 2008.
20. Byungjoo Park, Youn-Hee Han, Haniph Latchman, "*A Study on Optimal Fast Handover Scheme in Fast Handover for Mobile IPv6 (FMIPv6) Networks*", **Lecture Notes in Computer Science**, Vol. 4412, pp. 120–129, June 2007.
21. Byungjoo Park, Youn-Hee Han, Haniph Latchman, "An Approach to Reliable and Efficient Routing Scheme for TCP Performance Enhancement in Mobile IPv6

Networks”, **Lecture Notes in Computer Science**, Vol. 4412, pp. 160–169, June 2007

22. Byungjoo Park, Youn-Hee Han, Haniph Latchman, “EAP: New Fast Handover Scheme based on Enhanced Access Point in Mobile IPv6 Networks”, **International Journal of Computer Science and Net.**, Vol.6, No. 9B, pp. 69-75, Sep., 2006.
23. Byungjoo Park, Haniph A. Latchman, “A DNS based New Route Optimization Scheme with Fast Neighbor Discovery in Mobile IPv6 Networks”, **Springer-Verlag Series L.N. in Computer Science**, Vol. 4238, pp.590-593, Sep., 2006.
24. Byungjoo Park, In Huh, Haniph Latchman, “An Enhancement of TCP Fairness in IEEE 802.11 based Multi-hop Ad-hoc Networks”, **International Journal of Computer Science and Net.**, Vol.6, No. 8B, pp. 1-8, Aug., 2006.
25. Byungjoo Park, In Huh, Haniph Latchman, “Performance Improvement of TCP with an Efficient Contention Window Control Mechanism (ECWC) in IEEE 802.11 based Multi-hop Wireless Networks”, **Springer-Verlag Series L.N. in Computer Science**, Vol. 4104, pp. 365-375, July,2006.
26. Al-Shamali, S, Oscar D. Crisalle and Haniph A. Latchman, “The Nyquist Robust Sensitivity Margin for Uncertain Closed-loop Systems”, **International Journal of Nonlinear and Robust Control**, Vol. 15, 00 619-634, December 2005.
27. Haniph A. Latchman, Kaywan Afkhamie, Srinivas Katar, Brent Mashburn, Richard Newman and Larry Yonge, “High Speed Multimedia Home Networking Over Powerline”, **NCTA Technical Papers**, April 3, 2005, Pages 9-22
28. Y. Kwon, Y. Fang and H. Latchman, “Performance analysis for a new medium access control protocol in wireless LANs,” **ACM Wireless Networks**, Vol.10, No.5, pp.519-529, September 2004
29. Younggoo Kwon, Yuguang Fang, and Haniph A. Latchman, “Design of MAC Protocols with Fast Collision Resolution for Wireless Local Area Networks”, **IEEE Transactions on Wireless Communications**, May 2004, Pages 793-807
30. M.K. Lee, , R. Newman, H.A. Latchman, S. Katar, and L. Yonge, “HomePlug 1.0 Powerline Communication LANs –Protocol Description and Comparative Performance Results”, **Special Issue of the International Journal on Communication Systems on Powerline Communications**, pages 447-473, May, 2003
31. Niovi Pavlidou, Haniph A. Latchman, Richard Newman, Van Hink, “Guest Editorial on Powerline Communications”, **Special Issue of the International Journal on Communication Systems on Powerline Communications**, pages 447-473, May, 2003
32. Y. Lin*, H. Latchman, S. Katar, and M.K. Lee*, “Theoretical and Field Performance Comparison between 802.11 Wireless and Powerline HomePlug 1.0 Protocols”, **IEEE Communications Magazine with Focus Theme on Powerline Local Area Networks**, pages 54-63, April, 2003
33. H.A. Latchman and Larry Yonge, “Powerline Local Area Netowrking”, **IEEE Communications Magazine with Focus Theme on Powerline Local Area Networks**, pages 31-32, April, 2003

34. Ali F. Almutairi^{*}, Haniph A. Latchman, Scott L. Miller and Tan Wong, “*Performance of MMSE Receiver Based CDMA System with Higher Order Modulation Formats in a Fading Channel*”, accepted for publication in the **Wireless Personal Communications**, pages 117-136, 2003
35. H. Latchman and J. Walters, “*Managing a Network Environment*”, Accepted for publication in **The Internet Encyclopedia**, Vol. II, pages 537-550, John Wiley and Sons, August, 2002
36. Yu-ju Lin^{*}, Haniph A. Latchman, Minkyu Lee and Srinivas Katar, “*Power line Communication Network Infrastructure For Smart Homes*”, **IEEE Wireless Communications**, Volume 9, Issue 6, Pages: 104-111, December, 2002.
37. Chuck Baab^{*} and J. Cockburn, Haniph A. Latchman and Oscar D. Crisalle, “*Extension of the Nyquist Robust Stability Margin To Systems With Nonconvex Value Sets*”, **International Journal of Robust and Nonlinear Control**, Volume 11, Issue 15, Pages: 1407-141, December, 2001.
38. Haniph A. Latchman and Oscar D. Crisalle, “*Guest Editorial on Robust Control of Systems in the Presence of Parametric Uncertainties*”, **International Journal of Robust and Nonlinear Control**, Volume 11, Issue 15, Pages: 1394-1395, December, 2001.
39. Haniph A. Latchman and Sheryl M. Latchman, “*Lectures on Demand in ALN – Enhancing the Online Learning Experience*” **Journal of Asynchronous Learning Networks**, Vol.5 No. 1, pp. 85-98, June 2001.
40. H. Latchman, C. Salzmann^{*}, D. Gillet and J. Kim^{*} “*Learning On Demand - A Hybrid Synchronous /Asynchronous Approach*” **IEEE Transaction on Education**, Special Multimedia Edition, Volume: 44. Issue: 2 , May 2001 pp. 208-225
41. Denis Gillet, , Haniph A. Latchman, Christophe Salzmann^{*} and Oscar D. Crisalle, “*Virtual Laboratory Experiments in Flexible Learning*”, **Journal of Engineering Education**, April 2001, p. 187-191.
42. Ali F. Almutairi^{*}, Haniph A. Latchman, Scott L. Miller, Tan F. Wong, “*MMSE-Based Fully Distributed Power Control Algorithm*”, **IEEE Communications Letters**, Vol. 4, No. 11, P. 346-348, November, 2000.
43. Haniph A. Latchman “*Computer Communication Using a Lectures on Demand Approach in ALN Approach*”, **Best Practices in Computer Enhanced Teaching and Learning**, pages 73- 78, June, 2000.
44. Haniph A. Latchman, “*Administrative and Technical Issues in Online Degree Programs – A University of Florida Perspective*”, **Proceedings of the IEEE**, Vol. 88, pp. 709-714, May 2000
45. Haniph A. Latchman and Sheryl M. Latchman, “*Bringing the Classroom to Students Everywhere*”, accepted for publication in the **Journal of Engineering Education**, pp. 189-191, April 2000.

46. Fu, Wen-yen* and H. Latchman, "An Effective Flow Control Scheme for Self Similar Traffic in ATM Networks", **International Journal of Modeling and Simulation**, Vol. 21, No. 1, pp30-39, 2000.
47. Edmonson, W., J. Palacios*, L. Wang*. and H. Latchman, "Global Optimization for Analog Recursive Filters", **IEEE Signal Processing Letters**, Vol 6, No. 8 pp 199-201, August 1999
48. Latchman, H., C. Salzman*, D. Gillet and H. Bouzekri*, "Information Technology Enhanced Learning Networks for Distance and Local Education", **IEEE Transactions on Education**, Vol. 42, pp. 247-254, November 1999.
49. H. Latchman, "Internet Companies", **Encyclopedia of Electrical and Electronics Engineering**, Vol. 10 Pp. 645-650, John Wiley & Sons, 1999.
50. Ali F. Almutairi*, Scott L. Miller and Haniph A. Latchman. "Tracking of multilevel modulation formats for {DS/CDMA} system in a slowly fading channel", **DIMACS Series in Discrete Mathematics and Theoretical Computer Science**, vol. 52, pp 19-29. March 1999.
51. H. Latchman and Ramachandran*, M., "Overview of the Internet", **Encyclopedia of Telecommunications**, John Wiley & Sons, pp. 125-149, 1997
52. H. Latchman, Crisalle, O., Basker*, V., "The Nyquist Robust Stability Margin, A New Metric for the Stability of Uncertain Systems", **International Journal of Nonlinear and Robust Control**, Vol. 7, February, 1997. Pp 211-226.
53. J. Chen and H. Latchman, "Frequency Sweeping Tests for Stability Independent of Delay", **IEEE Transactions on Automatic Control**, Vol. 40, No. 9, pp 140-145, September 1995
54. H. Latchman and J. Norris*, "On the Equivalence Between Similarity and Non-similarity Scaling in Robustness Analysis," **IEEE Transactions on Automatic Control**, Volume: 37 Issue: 11 , Nov. 1992 pp. 1849 -1853
55. H. Latchman and J. Norris* , "Calculation of the Structured Singular Value with a Reduced Number of Optimization Variables," **IEEE Transactions on Automatic Control**, October 1992, Volume: 37 Issue: 10 , Oct. 1992 pp. 1612 -1616
56. B. Kouvaritakis, R. Harrison, and H. Latchman, *Stability and Dynamic Performance Bounds for Non-linear Multivariable Systems*," **IEE Proceedings, Part D**, Vol. 134, No. 2, March 1987, pages 115-123
57. B. Kouvaritakis and H. Latchman, "Necessary and Sufficient Stability Conditions for Case of Dependent Additive Perturbations," **International Journal of Control**, Vol. 43, No. 6, May 1986, pages 1615-1629.
58. R. Daniel, B. Kouvaritakis and H. Latchman, "Principal Direction Alignment: The Geometric Framework for the Complete Solution to the Mu-problem," **IEE Proceedings Part D**, Vol. 133, No. 2, March 1986, pages 45-56.
59. B. Kouvaritakis and H. Latchman, "Necessary and Sufficient Stability Conditions for Systems with Structured Perturbations: The Major Principal Direction Alignment Principle," **International Journal of Control**, Vol. 42, No. 3, August 1985, pages 575-598.
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3. *Richard Newman, Haniph A. Latchman, Srinvas Katar, and Larry Yonge*, "Securing Signal Level Attenuation Characterization Protocol for Electric Vehicle Charging Stations", **IEEE Smartgrid Communications Conference**, Venice, Italy, submitted
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118. H. Latchman and J. Letra*, "An Indicator for Interaction for Systems under Uncertainties," **Proceedings of the American Control Conference**, Vol. 3, pp 2031-2032, May 1990.

119. H. Latchman, "Analysis of Systems with Element-by-Element Bounded Uncertainties," **Proceedings of the American Control Conference**, Vol. 1, pp. 378-383. June 1988.

Non-refereed Publications

1. "The HomePlug Powerline Communication Standards – In Home, Access and Command and Control", Haniph A. Latchman, **IEEE International Conference on Power Line Communications and Its Applications**, Jeju Island, Korea, April 2008.
2. H. Latchman, "Video Conferencing Applications for Engineering Education", **SUCCEED Newsletter**, Vol. No. 6, 1996, pp. 10-14.
3. H. Latchman, "A Lightning, Earth Resistivity and Fault Study for Southern Bell States," **Southern Bell Internal Report**, Pages 1 – 80, February 1991.
4. J. Letra* and H. Latchman, "New Sufficient Conditions for Robust Stability of State-space Systems under Parametric Uncertainty," **University of Florida Internal Report**, pages 1-20, September 1990,
5. H. Latchman and J. Letra*, "New Sufficient Conditions for Robust Stability of State-space Systems Under Parametric Uncertainty," **University of Florida Internal Report**, Pages 1-18, September 1990.
6. H. Latchman, "An 8096-based Microcontroller Development Environment for Automotive Sensing Applications," **Intel Innovator**, Pages 2-3, August 1990.
7. H. Latchman and J. Letra*, "A Note on the Computation of Allowable Bounds for Parametric Uncertainties," Pages 1-15, **University of Florida Internal Report**, June 1990.
8. F. del Pino* and H. Latchman, "Data Communications Facilities at the University of Florida," **University of Florida Internal Report**, pages 1-91, April 1990

Abstracts

1. Latchman, Haniph, A., "Voice over IP – Driving the Emergence of Free or Low Cost Telephony", Keynote Address, Emoquad 3rd Annual Conference, April 26, 2005
2. Latchman, Haniph A., "Broadband Powerline Home Networking", February 6, 2005, IEEE International Solid State Circuits Conference (ISSCC)
3. Latchman, Haniph, A., "Powerline Communication Technologies", Jamaica Computer Society Annual Conference, October 2004.
4. Latchman, Haniph A., "The Blurring of the distinction between on-campus and off-campus education", ABET 2003 Annual Meeting, Minneapolis Minnesota, USA.

5. Latchman, Haniph A., Michael Teitelbaum, “*Sloan Foundation Virtual Education: Where We’ve Been – Where We Are Going*”, **Virtual Education and the Future Role of the University Workshop**, August 8-9 2000, Monterey California
6. H. Latchman, “*Electronic Commerce*”, **Proceedings of the 16th Annual Jamaica Computer Society Conference**, October 1999, Kingston Jamaica.
7. H. Latchman, “*Challenges and Opportunities in Using the Lectures on Demand Approach*” **Proceedings of the 5th International Conference on Asynchronous Learning Networks (Online)**, October 1999, UMUC, Maryland USA
8. Eduardo J. Adam, Oscar D. Crisalle and Haniph A. Latchman, “A New Approach For Evaluating The Robustness of the Smith Predictor”, **Proceedings of the AICHE**, September 1999.
9. Haniph A. Latchman and Denis Gillet, “*Lectures on Demand in Asynchronous Learning Networks*” **Proceedings of the 4th International Conference on Asynchronous Learning Networks (Online)**, New York, October 1998
10. E. Gorrochategui, D. Gillet, C. Salzmann*, R. Longchamp, D. Bonvin, H. Latchman, and O. D. Crisalle, “*Bringing the Laboratory to Remote Students Using Multimedia and the Internet*”, **Multimedia in the Classroom: The New Learning Experience Session**, 1997 AICHE Annual Meeting, Los Angeles, California.
11. V. R. Basker*, H. Latchman, and Oscar D. Crisalle “*The Nyquist Robust Stability Margin for Uncertain MIMO Systems - A New Robustness Measure*”, Advances in Control Session, 1996 **Annual AICHE Meeting**, Chicago, IL (1996).
12. Kuo, Y*, and H. Latchman, “*The Critical Perturbation Radius Weight in H-infinity Synthesis*”, **IFAC Conference - International Workshop on Robust Control**, Napa, California, June 1996.
13. H. Latchman and A. Ahmad*, “*Videoconferencing over the Internet*”, **First SUCCEED Annual Conference**, Raleigh March 1994.
14. H. Latchman, “*A Classical Approach of Uncertain Multivariable Systems*,” **SIAM 35th Annual Meeting**, Denver Colorado, October 1987.

Presentations and Invited Lectures

1. Haniph A. Latchman, “*Alpine MIST – A Mesh IP System For Telecommunication*”, Department of Telecommunications, **Federal University of Juiz de Fora**, August 2013
2. Haniph A. Latchman, “*Meeting the Challenge of Teaching and Learning in the 21st Century*”, University Wide Seminar, **Federal University of Juiz de Fora**, August 2013 (Also presented at **University of Campinans**, Brazil September 2013)
3. Haniph A. Latchman, “*Conquering The Harsh PLC Channel To Support High Speed Multimedia And Smart Grid Applications*”, Department of Electrical Engineering, **Federal University of Juiz de Fora**, August 2013
4. Haniph A. Latchman, “*Framework for Collaboration in Engineering Teaching and Research*”, School of Engineering, **Federal University of Juiz de Fora**, August 2013 (Also presented at **Federal University of Rio de Janeiro, Brazil**, August 2013,

- University of Campinas, Brazil, September 2013, University of Sao Paulo, Brazil, September 2013)
5. Haniph Latchman “*Interactive Voice Video and Data Communications - From the Office to the Home and Everywhere Between*”, International Conference on Computing, Communications and Control Technologies (ICCCT), March 30, 2011.
 6. Haniph Latchman “*Enterprise VoIP Solutions – with Alpine Linux*”, Slashroots Conference University of the West Indies, February 25, 2011.
 7. “The HomePlug Powerline Communication Standards – In Home, Access and Command and Control”, Haniph A. Latchman, ***IEEE International Conference on Power Line Communications and Its Applications***, Jeju Island, Korea, April 2008.
 8. Haniph Latchman, “Powerline Communications – Theory and Applications for India”, ***Indian Institute of Sciences***, Bangalore India, May 2007
 9. Haniph Latchman, “Online MS Courses and Degrees – using Asynchronous Learning from The University of Florida”, ***University of Technology***, Kingston Jamaica, October 2007
 10. Haniph Latchman, “Online Education and Recent Advances in Powerline Communications”, ***University of Zambia***, Lusaka Zambia, November 2007,
 11. Haniph Latchman, “Online Education and Recent Advances in Powerline Communications”, ***University of Zambia***, Lusaka Zambia, November 2007,
 12. Haniph Latchman, “Convergence of Voice Video and Data Services – Challenges and Opportunities”, various audiences in ***Hong Kong, Taiwan, Japan and Korea***, March – April 2008.
 13. Latchman, Haniph, A., “*Voice over IP – Driving the Emergence of Free or Low Cost Telephony*”, Keynote Address, Emoquad 3rd Annual Conference, April 26, 2005
 14. Latchman, Haniph A., “*Broadband Multimedia In-Home Communication*”, March 16, 2005, Laboratoire d’Automatique, Ecole Polytechnique Federal de Lausanne.
 15. Latchman, Haniph A., “*Computing and Information Technologies – Creating a New World of Opportunities*”, March 10, 2005, Commencement Address, University of Technology, Jamaica.
 16. Latchman, Haniph A., “*Broadband Multimedia Powerline Communication and Internet Access - An Unexpected Solution*”, January 29, 2005, ECE Department Seminar.
 17. Latchman, Haniph A., “*Broadband Powerline Home Networking*”, February 6, 2005, IEEE International Solid State Circuits Conference (ISSCC)
 18. Latchman, Haniph, A., “*Powerline Communication Technologies*”, Jamaica Computer Society Annual Conference, October 2004.
 19. Latchman, Haniph A., “*Building Bridges in Your Career*”, Dinthill Technical High School, Commencement Address, July 2004.
 20. Latchman, Haniph, A., “*The Latchman Foundation Awards*”, Tulloch Primary School, Jamaica, June 29, 2004.

21. Latchman, Haniph A., "*The Blurring of the distinction between on-campus and off-campus education*", *ABET 2003 Annual Meeting, Minneapolis Minnesota, USA.*
22. Latchman, Haniph A. and Frank Mayadas, "*The Development and Use of Lectures on Demand In ALN in Engineering Education*", **AAUP Workshop**, Virginia, December 11, 2000
23. "***Lectures on Demand – a Hands-on Workshop***", Sixth International Conference on Asynchronous Learning Networks, Maryland USA, November 2000.
24. Latchman, Haniph A., Michael Teitelbaum, "*Sloan Foundation Virtual Education: Where We've Been – Where We Are Going*", **Virtual Education and the Future Role of the University Workshop**, August Monterey California
25. "***The Wall-less Classroom: Judicious Use of Information and Computer Technologies in Online Education***", **Keynote Address**, International TechVision 2000 Conference on Technology In Education, Ocho Rios Jamaica, April 27, 2000.
26. "***Real ALN Experiences: Challenges Lessons Learned and Open Issues***", 2000 Engineering Dean's Institute, March 20, 2000, Hilton Head, SC.
27. "***The Development And Use Of Synchronized Multimedia Lectures On Demand In Online Ms And Bs Degree Programs***", ALN Conference and Workshop, March 3, 2000, University of Hawaii, Honolulu, Hawaii.
28. "***The Use of Synchronized StreamingMedia in Online Education***" – Workshop presentation at the International Conference on Engineering Research Technologies, Sibiu Romania, November 1999.
29. "***Electronic Commerce in the Jamaican Context***", **Keynote Address and Executive Session, 16th Annual Conference of the Jamaica Computer Society**, October 1999, Kingston Jamaica.
30. "***Lectures on demand with synchronized streaming media***", **April 08, 1999, Annual SUCCEED Conference, Raleigh N.C.**
31. "***Lectures on Demand in ALN***" – March 16, 1999, **President's Task Force on Federal Training, Washington D.C.**
32. "***Information Technology Enhanced Learning in Distance and Conventional Education***", June 29, 1998, **Center for Teaching and Learning, Swiss Federal Inst. of Technology Zurich**, Switzerland
33. "***Major Principal Direction Alignment and the Critical Direction in Robust Control Analysis and Design***", June 19, 1998, **Institut Automatique, Ecole Polytechnique Federal de Lausanne, Switzerland**
34. "***The Design and Use of Asynchronous Learning Networks in Local and Distance Education***" June 23, 1998, **Institut Automatique, Ecole Polytechnique Federal de Lausanne, Switzerland**
35. "***Project SUCCEED and Technology-based Curriculum Delivery***", **International Colloquium on New Information and Communication Technologies – What do They Add to Higher Education and Continuing Education**, June 24-25, 1998, Ecole Polytechnique de Lausanne, Switzerland.

36. "*Distance Education using Hybrid Synchronous and Asynchronous Learning Networks*", **Teaching and Learning Online Workshop**, April, 1998, University of Florida (OIR/UCET).
37. "*Asynchronous Learning Networks*" **1998 SUCCEED Annual Conference**, March, 1998, Charlotte North Carolina.
38. "*A Partnership for Global Education*", **Pontifica Universidad Catolica de Rio de Janiero and the Universidad de Campinas**, Brazil. January, 1998.
39. "*Control Theoretic Approaches to Communication Problems*", **Ecole Polytechnique Federal de Lausanne**, December 1997.
40. "*Computer Communications and the Internet*", **BIDC/UWI sponsored Seminar**, Bridgetown, Barbados, August 1997.
41. "*Technology-based Asynchronous Learning Networks*", **University of Florida Indonesian Faculty Training Program**, December, 1996.
42. "*Packet and Circuit Switched Videoconferencing for Distance Education*", **University of Florida, Distance Education Forum**, October 1996.
43. "*The Role and Use of Communications and Computer Technology in Education*" - Internet Seminar for **Educators** in Barbados, October 1996.
44. "*Teaching Effectiveness - Techniques and Appropriate Use of Technology*" **Jamaica Online Internet Seminar for Educators** in Jamaica, August 19, 1996.
45. "*Low-cost access to the Internet for Education and Small Business*", Monthly Meeting of the **Jamaica Computer Society**, Kingston Jamaica, November, 1995.
46. "Worldwide Wide Area Networking using the Internet", **Watchtower Communications**, Brooklyn New York, May 1995.
47. "An Overview of the Internet - A Service Provider Perspective", **Trinidad Guardian**, Port of Spain, Trinidad, April 1995.
48. "Multimedia and Real-time Applications on the Internet", **Digital Transtec Internet Conference**, Kingston Jamaica, April, 1995.
49. "*Emerging Telecommunications Technologies and Their Impact on Business, Commerce and Medicine*," **Jacksonville Florida Chamber of Commerce**, November 1992.
50. "*Broadband ISDN - An Evolving Technology*," **AT&T Paradyne**, St. Petersburg, Florida, April 1992.
51. "*Telecommunications Research at the University of Florida*," **Loral Data Systems**, Sarasota, Florida, March 1992.
52. "*Recent Advances in Communications, Computers and Controls*," Applied Physics Department, **University of West Indies**, Kingston, Jamaica, May 1991.
53. "*Framework for Collaboration in Control Systems Research between the University of Florida and General Electric*," **Daytona Beach, Florida, General Electric**, March 1991.

54. *"A Lightning, Earth Resistivity and Fault Study for Southern Bell States,"* H. Latchman, Transmission Engineering Group, **Southern Bell Headquarters**, Atlanta, Georgia, February 1991.
55. *"The Data Communications Network at the University of Florida - An SMDS Perspective,"* **Bell South Services, Southern Bell Headquarters**, Atlanta, Georgia, February 1991.
56. *"ISDN Data and Video Applications at the University of Florida,"* Richard Snelling, Executive Vice-President, **Southern Bell Headquarters**, Atlanta, Georgia, October 1990.