

VITA
October 6, 2008

Name: David James Love

Education:

<i>Degree</i>	<i>Date</i>	<i>School</i>
B.S.E.E.	Dec. 2000	The University of Texas at Austin
M.S.E.	May 2002	The University of Texas at Austin
Ph.D.	May 2004	The University of Texas at Austin

Dissertation: Feedback Methods for Multiple-Input Multiple-Output Wireless Systems

Professional and Honorary Society Memberships:

Eta Kappa Nu (HKN), 1999 – Present
 Tau Beta Pi, 1998 – Present
 Institute of Electrical and Electronics Engineering (IEEE)
 Student Member 1998 – 2004
 Member 2005 – Present
 Communications Society
 Information Theory Society
 Signal Processing Society
 Vehicular Technology Society

Honors:

1. University Honors, UT-Austin, Fall 1997 – Spring 2000
2. UT-Austin Distinguished Scholar
3. B.S.E.E. with Highest Honors
4. 2001 – 2002 TxTec Graduate Fellowship
5. 2001 – 2002 UT-Austin Microelectronics and Computer Development Fellowship
6. 2001 – 2004 UT-Austin Cockrell Doctoral Fellowship
7. 2003 UT-Austin Continuing Graduate Fellowship
8. 2003 – 2004 UT-Austin A. D. Hutchison Student Endowment Fellowship
9. 2003 – 2004 TxTec Graduate Fellowship
10. 2003 IEEE Vehicular Technology Society Daniel E. Noble Fellowship
11. Invited to participate in Samsung 4G Forum, August 31-September 1 2006. Forum is a by-invitation conference featuring Samsung executives, executives from Samsung-affiliated companies, and distinguished professors.
12. Nominated for 2008 MIT Technology Review Top 35 Innovators Under Age 35

Professional Experience:

May 2000 - August 2000	Summer Research Co-op, DSPS R&D Center Texas Instruments, Dallas, TX
May 2002 - August 2002	Summer Research Co-op, DSPS R&D Center Texas Instruments, Dallas, TX
June 2003 – August 2003	Graduate Research Assistant, Department of Electrical and Computer Engineering, The University of Texas at Austin
August 2004 - Present	Assistant Professor, School of Electrical and Computer Engineering, Purdue University

Editorial Positions:

1. Guest Editor, *IEEE Journal on Selected Areas in Communications*, Special Issue on “Exploiting Limited Feedback in Tomorrow’s Wireless Communications Networks,” 2008
2. Associate Editor, *IEEE Transactions on Communications*, 2008 to Present

External Activities:*Professional Society Activities*

1. IEEE Communication Society, Communication Theory Technical Committee, 2003 - Present
2. IEEE Vehicular Technology Society, Dan Noble Fellowship Award Panel, August 2007
3. IEEE Communication Society, Wireless Communications Technical Committee, 2008 - Present

Conference Activities

1. Technical Program Committee Member, IEEE International Conference on Communications (ICC), Communication Theory Symposium, June 2004
2. Technical Program Subcommittee Member, IEEE Radio & Wireless Conference (RAWCON), MIMO Technologies, September 2004
3. Technical Program Committee Member, IEEE Global Telecommunications Conference (Globecom), Wireless Communications, Networks, and Systems Symposium, December 2004
4. Technical Program Committee Member, IEEE Wireless Communications Conference (WIRELESS-COM), June 2005
5. Technical Program Committee Member, IEEE International Symposium on Wireless Communication Systems, September 2005
6. Technical Program Committee Member, IEEE Global Telecommunications Conference (Globecom), Wireless Communications, Networks, and Systems Symposium, December 2005
7. Technical Program Subcommittee Member, IEEE Radio and Wireless Symposium, MIMO Technologies, January 2006

8. Technical Program Committee Member, IEEE Wireless Communications and Networking Conference (WCNC), April 2006
9. Technical Program Committee Member, IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM), July 2006
10. Technical Program Committee Member, IEEE International Wireless Communications and Mobile Computing Conference, July 2006
11. Technical Program Committee Member, IEEE Global Telecommunications Conference (Globecom), Communication Theory Symposium, December 2006
12. Technical Program Subcommittee Member, IEEE Radio and Wireless Symposium, MIMO Technologies, January 2007
13. Technical Program Committee Member, IEEE International Conference on Communications (ICC), Communication Theory Symposium, June 2007
14. Track Co-Chair (equivalent to TPC co-chair), IEEE Fall Vehicular Technology Conference (VTC), Multiple Antenna Systems, October 2007
15. Communication Theory Technical Committee Representative to General Symposium, IEEE Global Telecommunications Conference (Globecom), December 2007
16. Technical Program Subcommittee Member, IEEE Radio and Wireless Symposium, MIMO Technologies, January 2008
17. External Expert Reviewer (similar to TPC member), IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Signal Processing for Communications, March-April 2008
18. Publicity Co-Chair, IEEE Communication Theory Workshop, May 2008
19. Technical Program Committee Member, IEEE International Conference on Communications (ICC), Communication Theory Symposium, May 2008
20. Technical Program Committee Member, IEEE International Conference on Communications (ICC), Wireless Communications Symposium, May 2008
21. Technical Program Committee Member, Czech Technical University (CTU), Technical Program Committee, European Wireless Conference, June 2008
22. Technical Program Committee Member, International Wireless Communications and Mobile Computing (IWCMC), MIMO Symposium, August 2008
23. Technical Program Committee Member, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Fundamentals & PHY Track, September 2008
24. Technical Program Committee Member, IEEE Global Communications Conference (Globecom), Wireless Communications Symposium, November-December 2008
25. Technical Program Committee Member, IEEE Wireless Communications & Networking Conference (WCNC), PHY Track, April 2009
26. External Expert Reviewer (similar to TPC member), IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Signal Processing for Communications, April 2009
27. Technical Program Committee Member, IEEE International Conference on Communications (ICC), Communication Theory Symposium, May 2009
28. Technical Program Committee Member, IEEE International Conference on Communications (ICC), Wireless Communications, Symposium, May 2009

29. Technical Program Committee Member, IEEE International Workshop on Signal Processing Advances for Wireless Communications (SPAWC), July 2009
30. Technical Program Committee Member, IEEE International Workshop on Cross-Layer Designs, June 2009
31. Technical Program Committee Member, IEEE Global Communications Conference (Globecom), Wireless Communications Symposium, November-December 2009
32. Technical Program Committee Member, IEEE Global Communications Conference (Globecom), Communication Theory Symposium, November-December 2009

Session Chairman

1. Session Chairman, The University of Texas at Austin Wireless Networking and Communications Group (WNCG) Symposium, "Space-Time Coding & Diversity Session," October 2003
2. Session Chairman, University of Illinois at Urbana-Champaign, Forty-Second Annual Allerton Conference On Communication, Control, and Computing, "MIMO I," September 2004
3. Session Chairman, IEEE Global Telecommunications Conference (Globecom), "Diversity I," December 2004
4. Session Chairman, IEEE Vehicular Technology Conference Conference (VTC), "MIMO III," September 2005
5. Session Chairman, IEEE Global Telecommunications Conference (Globecom), "Space-Time Coding II," December 2005
6. Session Chairman, IEEE Global Telecommunications Conference (Globecom), "MIMO I," December 2006
7. Session Chairman, IEEE Radio and Wireless Symposium, "Implementation and Evaluation of Smart Antenna," January 2008

Ph.D. Thesis Supervision Completed:

Name	Date	Thesis Title
Peilu Ding	Dec. 2005	"Open-Loop and Close-Loop Transmit Diversity Designs for Multiple Antenna Wireless Systems" (Co-advised with Prof. M. D. Zoltowski)
Tarkesh Pande	Dec. 2006	"Limited Feedback Precoding for MIMO-OFDM and Non-Coherent Demodulation for Orthogonal Space Time Coded Continuous Phase Modulation" (Co-advised with Prof. J. V. Krogmeier)
Amir D. Dabbagh	May 2007	"Multiuser MIMO Wireless Communication Systems"

M.S. Supervision Completed:

J. Bryson	Dec. 2007 (co-advised by Prof. V. Balakrishnan)
K. Krishnamurthy	May 2008

M.S. and Ph.D. Students Currently Being Supervised:

M. Agrawal	Ph.D. (co-advised by Prof. V. Balakrishnan)
O. Aluko	Ph.D. (co-advised by Prof. J. Krogmeier)
C. K. Au Yeung	Ph.D.
Z. Chance	Ph.D.
X. Chen	M.S.
S. Hur	Ph.D. (co-advised by Prof. J. Krogmeier)
A. Jalali	Ph.D.
I. H. Kim	Ph.D.
T. Kim	Ph.D.
J. Wang	Ph.D. (co-advised by Prof. M. Zoltowski)

M.S. Committee Membership:

T. R. Dickson
 S. J. McGregor
 J. S. Park
 J. A. Vaught
 H.-L. Yang

Ph.D. Committee Membership (not serving as chair):

J. Ernst
 L. M. Huffman
 G. B. Kyung
 C. Lau
 Y. Ouyang
 T. R. Qureshi
 P. Tran
 S.-T. Tseng
 C.-L. Yang

Post-Doctoral and Visiting Scholar Supervision:

Prof. Seung Young Park (now an Assistant Professor at Kangwon National University)	2006-2007
Dr. Kyeongyeon Kim	2007-Present
Prof. A-Imam Al-Sammak (Associate Professor at University of Bahrain)	2008

Courses Developed:

ECE 695D Multiple Antenna Wireless Communication

Courses “In Charge of”:

ECE 695D Multiple Antenna Wireless Communication

Undergraduate Advising:

Faculty Co-Advisor Software Defined Radio Team, Vertically Integrated Projects (VIP)

School Committee Activities:

Committee: Graduate Admissions Committee, ECE, Purdue University
 Activity: Member
 2004 to Present

Committee: Graduate Committee, ECE, Purdue University

Activity: Member
2007 to 2008

Committee: Head's Advisory (Strategic Planning) Committee, ECE, Purdue University
Activity: Member
2007 to Present

Committee: CNSIP Faculty Search Committee, ECE, Purdue University
Activity: Member
2008

College Committee Activities:

Committee: Faculty Affairs Committee, College of Engineering, Purdue University
Activity: Member
2006 to 2007

Student Activities:

Organization: IEEE - Purdue University Student Chapter
Activity: Faculty co-advisor
2007 to Present

Organization: Purdue Center for Wireless Systems and Applications
Activity: Co-organizer of seminar series
2004 to 2007

Activities as a Referee:

<i>Date</i>	<i>Organization</i>
2006	Israel Science Foundation
2002-Present	IEEE Transactions on Signal Processing
2003-Present	IEEE Transactions on Wireless Communications
2003-Present	IEEE Transactions on Vehicular Technology
2003-Present	IEEE Communications Letters
2004-Present	IEEE Signal Processing Letters
2004-Present	IEEE Transactions on Information Theory
2004-Present	IEEE Transactions on Communications
2004-Present	EURASIP Journal on Applied Signal Processing
2005-Present	IEEE Journal on Selected Areas in Communications
2005-Present	IEEE Transactions on Networking
2005-Present	Journal of Communication Networks
2006-Present	IEE Proceedings - Communications
2007-Present	EURASIP Journal on Wireless Communications and Networking
2008	IEEE Transactions on Mobile Computing
2002-Present	IEEE Global Telecommunications Conference
2003-Present	IEEE International Conference on Communications
2005-Present	IEEE Vehicular Technology Conference
2005-Present	IEEE International Symposium on Information Theory
2003	IEEE Conference on UWB Systems and Technologies
2004-2006	IEEE Wireless Communications and Networking Conference
2004	IEEE International Conference on Communication Systems
2004	IEEE Military Communications Conference

Research Book Contributions and Books Published:

1. D. J. Love and R. W. Heath Jr., "Feedback techniques for MIMO channels," in *MIMO System Technology for Wireless Communications*, edited by George Tsoulos, ISBN number 0-8493-4190-6, pp. 113-146, CRC Taylor & Francis Group, Boca Raton, FL, 2006.

Serial Journal Articles:

1. D. J. Love and R. W. Heath Jr., "Equal Gain Transmission in Multiple-Input Multiple-Output Wireless Systems," *IEEE Transactions on Communications*, vol. 51, pp. 1102-1110, July 2003.
2. D. J. Love, R. W. Heath Jr., and T. Strohmer, "Grassmannian Beamforming for Multiple-Input Multiple-Output Wireless Systems," *IEEE Transactions on Information Theory*, vol. 49, pp. 2735-2747, Oct. 2003.
3. D. J. Love and R. W. Heath Jr., "Diversity Performance of Precoded Orthogonal Space-Time Block Codes Using Limited Feedback," *IEEE Communications Letters*, vol. 8, pp. 305-307, May 2004.
4. D. J. Love, R. W. Heath Jr., W. Santipach, and M. L. Honig, "What is the Value of Limited Feedback for MIMO Channels?," *IEEE Communications Magazine*, vol. 42, pp. 54-59, Oct. 2004.
5. D. J. Love and R. W. Heath Jr., "Necessary and Sufficient Conditions for Full Diversity Order in Correlated Rayleigh Fading Beamforming and Combining Systems," *IEEE Transactions on Wireless Communications*, vol. 4, pp. 20-23, Jan. 2005.
6. D. J. Love and R. W. Heath Jr., "Limited Feedback Unitary Precoding for Orthogonal Space-Time Block Codes," *IEEE Transactions on Signal Processing*, vol. 53, pp. 64-73, Jan. 2005.
7. R. W. Heath Jr. and D. J. Love, "Multimode Antenna Selection for Spatial Multiplexing Systems with Linear Receivers," *IEEE Transactions on Signal Processing*, vol. 53, pp. 3042-3056, Aug. 2005.
8. D. J. Love and R. W. Heath Jr., "Limited Feedback Unitary Precoding for Spatial Multiplexing Systems," *IEEE Transactions Information Theory*, vol. 51, pp. 2967-2976, Aug. 2005.
9. D. J. Love and R. W. Heath Jr., "Multimode Precoding for MIMO Wireless Systems," *IEEE Transactions on Signal Processing*, vol. 53, pp. 3674-3687, Oct. 2005.
10. D. J. Love, S. Hosur, A. Batra, and R. W. Heath Jr., "Space-Time Chase Decoding," *IEEE Transactions on Wireless Communications*, vol. 4, pp. 2035-2039, Sept. 2005.
11. D. J. Love and R. W. Heath Jr., "OFDM Power Loading Using Limited Feedback," *IEEE Transactions on Vehicular Technology*, vol. 54, pp. 1773-1780, Sept. 2005.
12. D. J. Love, "On the Probability of Error of Antenna-Subset Selection with Space-Time Block Codes," *IEEE Transactions on Communications*, vol. 53, pp. 1799-1803, Nov. 2005.
13. D. J. Love, "Duplex Distortion Models for Limited Feedback MIMO Communication," *IEEE Transactions on Signal Processing*, vol. 54, pp. 766-774, Feb. 2006.
14. D. J. Love and R. W. Heath Jr., "Limited Feedback Diversity Techniques for Correlated Channels," *IEEE Transactions on Vehicular Technology*, vol. 55, pp. 718-722, March 2006.
15. P. Ding, D. J. Love, J. Wang, and M. D. Zoltowski., "Low Complexity Adaptive Design for Full-Diversity Full-Rate Space-Time Codes," *IEEE Transactions on Signal Processing*, vol. 54, pp. 3180-3189, March 2006.
16. C. K. Au-Yeung and D. J. Love, "A Performance Analysis Framework for Limited Feedback Beamforming in Correlated Fading," *IEEE Communications Letters*, vol. 10, pp. 344-346, May 2006.

17. A. D. Dabbagh and D. J. Love, "Feedback Rate-Capacity Loss Tradeoff for Limited Feedback MIMO Systems," *IEEE Transactions on Information Theory*, vol. 52, pp. 2190-2202, May 2006.
18. T. Pande, D. J. Love, and J. V. Krogmeier, "A Weighted Least Squares Approach to Precoding with Pilots for MIMO-OFDM," *IEEE Transactions on Signal Processing*, vol. 54, pp. 4067-4073, Oct. 2006.
19. C. K. Au-Yeung and D. J. Love, "On the Performance of Random Vector Quantization Limited Feedback Beamforming in a MISO System," *IEEE Transactions on Wireless Communications*, vol. 6, pp. 458-462, Feb. 2007.
20. T. Pande, D. J. Love, and J. V. Krogmeier, "Reduced Feedback MIMO-OFDM Precoding and Antenna Selection," *IEEE Transactions on Signal Processing*, vol. 55, part 2, pp. 2284-2293, May 2007.
21. S. Y. Park, D. Park, and D. J. Love, "On Scheduling for Multiple-Antenna Wireless Networks Using Contention-Based Feedback," *IEEE Transactions on Communications*, vol. 55, no. 6, pp. 1174-1190, June 2007.
22. P. Ding, D. J. Love, and M. D. Zoltowski, "Multiple Antenna Broadcast Channels with Shape Feedback and Limited Feedback," *IEEE Transactions on Signal Processing*, vol. 55, no. 7, pp. 3417-3428, July 2007.
23. A. Forenza, D. J. Love, and R. W. Heath Jr., "Simplified Spatial Correlation Models for Clustered MIMO Channels with Different Array Configurations," *IEEE Transactions on Vehicular Technology*, vol. 56, no. 4, pp. 1924-1934, July 2007.
24. A. D. Dabbagh and D. J. Love, "Precoding for Multiple Antenna Gaussian Broadcast Channels With Successive Zero-Forcing," *IEEE Transactions on Signal Processing*, vol. 55, no. 7, pp. 3837-3850, July 2007.
25. S. Y. Park and D. J. Love, "Capacity Limits of Multiple Antenna Multicasting Using Antenna Subset Selection," *IEEE Transactions on Signal Processing*, vol. 56, no. 6, pp. 2524-2534, June 2008.
26. J. Wang, D. J. Love, and M. D. Zoltowski, "User Selection With Zero-Forcing Beamforming Achieves the Asymptotically Optimal Sum Rate," *IEEE Transactions on Signal Processing*, vol. 56, no. 8, pp. 3713-3726, Aug. 2008.
27. A. D. Dabbagh and D. J. Love, "Multiple Antenna MMSE Based Downlink Precoding with Quantized Feedback or Channel Mismatch," accepted to *IEEE Transactions on Communications*, Oct. 2007.
28. S. Y. Park, D. Park, and D. J. Love, "On the Delay Performance in Multi-Antenna Wireless Networks Using Contention-Based Feedback," accepted to *IEEE Transactions on Communications*, Oct. 2007.
29. C. K. Au-Yeung, S. Y. Park, and D. J. Love, "A Dual-Mode Limited Feedback Multiuser Downlink System: Trading Off Multiplexing Gain for Capacity Growth," accepted to *IEEE Transactions on Communications*, Dec. 2007.
30. I. H. Kim and D. J. Love, "On the Capacity and Design of Limited Feedback Multiuser MIMO Uplinks," *IEEE Transactions on Information Theory*, vol. 54, no. 10, pp. 4712-4724, Oct. 2008.
31. Y. Ouyang, D. J. Love, and W. Chappell, "Body-Worn Distributed MIMO System," accepted to *IEEE Transactions on Vehicular Technology*, July 2008.
32. D. J. Love, R. W. Heath, Jr., V. K. N. Lau, D. Gesbert, B. D. Rao, and M. Andrews, "An Overview of Limited Feedback in Wireless Communication Systems," accepted to *IEEE Journal on Selected Areas in Communications*, Aug. 2008.

Conference Proceedings and Presentations:

1. D. J. Love, R. W. Heath Jr., and T. Strohmer, "Quantized Antenna Weighting Codebook Design for Multiple-Input Multiple-Output Wireless Systems," in *Proc. of 40th Annual Allerton Conf. on Comm., Control, and Computing*, Monticello, IL, Oct. 3-5, 2002.
2. D. J. Love and R. W. Heath Jr., "Equal Gain Transmission in Multiple-Input Multiple-Output Wireless Systems," in *Proc. of IEEE Global Telecomm. Conf.*, Taipei, Taiwan, vol. 2, pp 1124-1128, Nov. 17-21, 2002.
3. D. J. Love, R. W. Heath Jr., and T. Strohmer, "Quantized Maximum Ratio Transmission for Multiple-Input Multiple-Output Wireless Systems," in *Proc. of IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, vol. 1, pp. 531-535, Nov. 3-6, 2002.
4. D. J. Love, R. W. Heath Jr., and T. Strohmer, "Grassmannian Beamforming for Multiple-Input Multiple-Output Wireless Systems," in *Proc. of IEEE Int. Conf. on Comm.*, Anchorage, AK, vol. 4, pp. 2618-2622, May 11-15, 2003.
5. R. W. Heath Jr. and D. J. Love, "Multi-Mode Antenna Selection for Spatial Multiplexing Systems with Linear Receivers," in *Proc. of 41st Annual Allerton Conf. on Comm., Control, and Computing*, Monticello, IL, Oct. 1-3, 2003.
6. D. J. Love and R. W. Heath Jr., "Grassmannian Precoding for Spatial Multiplexing Systems," in *Proc. of 41st Annual Allerton Conf. on Comm., Control, and Computing*, Monticello, IL, Oct. 1-3, 2003.
7. D. J. Love and R. W. Heath Jr., "Limited Feedback Precoding for Spatial Multiplexing Systems Using Linear Receivers," in *Proc. of IEEE Military Comm. Conf.*, Boston, MA, vol. 1, pp. 627-632, Oct. 13-16, 2003.
8. R. W. Heath Jr. and D. J. Love, "Dual-Mode Antenna Selection for Spatial Multiplexing Systems with Linear Receivers," in *Proc. of IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, vol. 1, pp. 1085-1089, Nov. 9-12, 2003.
9. D. J. Love and R. W. Heath Jr., "Limited Feedback Precoding for Spatial Multiplexing Systems," in *Proc. of IEEE Global Telecomm. Conf.*, San Francisco, CA, vol. 4, pp. 1857-1861, Dec. 1-5, 2003.
10. A. Forenza, D. J. Love, and R. W. Heath Jr., "A Low Complexity Algorithm to Simulate the Spatial Covariance Matrix for Clustered MIMO Channel Models," in *Proc. of IEEE Vehic. Tech. Conf.*, Genoa, Italy, vol. 2, pp. 889-893, May 17-19, 2004.
11. D. J. Love and R. W. Heath Jr., "Multi-Mode Precoding Using Linear Receivers for Limited Feedback MIMO Systems," in *Proc. of IEEE Int. Conf. on Comm.*, Paris, France, vol. 1, pp. 448-452, June 20-24, 2004.
12. D. J. Love, S. Hosur, A. Batra, and R. W. Heath Jr., "Chase Decoding for Space-Time Codes," in *Proc. of IEEE Vehic. Tech. Conf.*, Los Angeles, CA, vol. 3, pp. 1663-1667, Sept. 26-29, 2004 (invited).
13. D. J. Love, "Duplex Limited Feedback Models for MIMO Communication," in *Proc. of 42nd Annual Allerton Conf. on Comm., Control, and Computing*, Monticello, IL, Sept. 29-Oct. 1, 2004.
14. D. J. Love and R. W. Heath Jr., "Limited Feedback Power Loading for OFDM," in *Proc. of IEEE Military Comm. Conf.*, Monterey, CA, vol. 1, pp. 71-77, Oct. 31-Nov. 3, 2004.
15. J. Wang, G. Dietl, P. Ding, M. D. Zoltowski, D. J. Love, and W. Utschick, "Hybrid Transmit Waveform Design Based on Beamforming and Orthogonal Space-Time Block Coding," in *Proc. of First IEEE Int. Conf. on Waveform Diversity and Design*, Edinburgh, Scotland, Nov. 8-10, 2004.
16. D. J. Love and R. W. Heath Jr., "Limited Feedback Precoding for Orthogonal Space-Time Block Codes," in *Proc. of IEEE Global Telecomm. Conf.*, Dallas, TX, vol. 1, pp. 561-565, Nov. 29-Dec. 3, 2004.

17. D. J. Love and R. W. Heath Jr., "Grassmannian Beamforming on Correlated MIMO Channels," in *Proc. of IEEE Global Telecomm. Conf.*, Dallas, TX, vol. 1, pp. 106-110, Nov. 29-Dec. 3, 2004.
18. S. Sanayei, D. J. Love, and A. Nosratinia, "On the Design of Linear Precoders for Orthogonal Space-Time Block Codes with Limited Feedback," in *Proc. of IEEE Wireless Comm. and Networking Conf.*, New Orleans, LA, vol. 1, pp. 489-493, March 13-17, 2005.
19. G. Dietl, J. Wang, P. Ding, M. D. Zoltowski, D. J. Love, and W. Utschick, "Hybrid Transmit Waveform Design based on Beamforming and Orthogonal Space-Time Block Coding," in *Proc. of IEEE Int. Conf. on Acoustics, Speech, and Sig. Proc.*, Philadelphia, PA, vol. 5, pp. 893-896, March 18-23, 2005.
20. P. Ding, J. Wang, G. Dietl, M. D. Zoltowski, and D. J. Love, "Combining Circulant Space-Time Coding with IFFT/FFT and Spreading," in *Proc. of IEEE Int. Conf. on Acoustics, Speech, and Sig. Proc.*, Philadelphia, PA, vol. 3, pp. 1089-1092, March 18-23, 2005.
21. P. Ding, J. Wang, G. Dietl, M. D. Zoltowski, and D. J. Love, "A New Space-Time Code Based on Circulant Structure and Spreading," in *Proc. of SPIE Defense and Security Symposium*, Orlando, FL., vol. 5819, pp. 160-166, March 28-April 1, 2005.
22. J. Wang, G. Dietl, P. Ding, M. D. Zoltowski, D. J. Love, and W. Utschick, "Hybrid Transmit Waveform Design in Outdoor Channels," in *Proc. of SPIE Defense and Security Symposium*, Orlando, FL., vol. 5819, pp. 175-182, March 28-April 1, 2005.
23. P. Ding, D. J. Love, J. Wang, and M. D. Zoltowski, "Low Complexity Full Diversity Full Rate Code for Closed Loop MIMO," in *Proc. of IEEE Workshop on Signal Processing Advances in Wireless Communications*, New York, NY, pp. 545-549, June 2-8, 2005.
24. P. Ding, D. J. Love, J. Wang, and M. D. Zoltowski, "Adaptive Full Diversity Full Rate Codes with Channel State Information," in *Proc. of IEEE Vehic. Tech. Conf.*, Dallas, TX, vol. 4, pp. 2248-2252, Sept. 25-28, 2005.
25. D. J. Love, "On the Design of Limited Feedback MIMO with Feedback Overhead," in *Proc. of IEEE Vehic. Tech. Conf.*, Dallas, TX, vol. 2, pp. 872-876, Sept. 25-28, 2005.
26. A. D. Dabbagh and D. J. Love, "On the Tradeoff Between Feedback Rate and Capacity Loss in Limited Feedback MIMO Systems," in *Proc. of IEEE Vehic. Tech. Conf.*, Dallas, TX, vol. 2, pp. 856-860, Sept. 25-28, 2005.
27. C. K. Au Yeung and D. J. Love, "Performance Analysis of Random Vector Quantization Limited Feedback Beamforming," in *Proc. of IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, pp. 408-412, Oct. 30-Nov. 2, 2005.
28. P. Ding, D. J. Love, and M. D. Zoltowski, "On the Sum Rate of Multiple Antenna Broadcast Channels with Channel Estimation Error," in *Proc. of IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, pp. 1524-1528, Oct. 30-Nov. 2, 2005.
29. P. Ding, D. J. Love, and M. D. Zoltowski, "On the Sum Rate of Channel Subspace Feedback for Multi-Antenna Broadcast Channels," in *Proc. of IEEE Global Telecomm. Conf.*, St. Louis, MO, vol. 5, pp. 2699-2703, Nov. 28-Dec. 2, 2005.
30. A. D. Dabbagh and D. J. Love, "Feedback Rate Versus Capacity Loss in Limited Feedback MIMO Systems," in *Proc. of IEEE Global Telecomm. Conf.*, St. Louis, MO, vol. 5, pp. 2822-2826, Nov. 28-Dec. 2, 2005.
31. J. Wang, P. Ding, M. D. Zoltowski, and D. J. Love, "Space-Time Coding and Beamforming with Partial Channel State Information," in *Proc. of IEEE Global Telecomm. Conf.*, St. Louis, MO, vol. 5, pp. 3149-3153, Nov. 28-Dec. 2, 2005.

32. J. Wang, M. D. Zoltowski, and D. J. Love, "Improved Space-Time Coding for Multiple Antenna Multicasting," in *Proc. of IEEE International Waveform Diversity & Design Conference*, Kauai, HA, Jan. 22-27, 2006 (invited).
33. J. Wang, D. J. Love, and M. D. Zoltowski, "Improved Space-Time Coding for Multiple Antenna Multicasting," in *Proc. of Conference on Information Sciences and Systems*, Princeton, NJ, Mar. 22-24, 2006 (invited, presentation only, no paper).
34. P. Ding, D. J. Love, and M. D. Zoltowski, "Multiple Antenna Broadcast Channels with Limited Feedback," in *Proc. of IEEE Int. Conf. on Acoustics, Speech, and Sig. Proc.*, Toulouse, France, vol. 4, pp. IV-25-IV-28, May 14-19, 2006.
35. J. Wang, D. J. Love, and M. D. Zoltowski, "User Selection for MIMO Broadcast Channel with Sequential Water-Filling," in *Proc. of 44th Annual Allerton Conf. on Comm., Control, and Computing*, Monticello, IL, Sept. 27-29, 2006.
36. S. Y. Park, D. J. Love, and D. Park, "On User Selection for Multiple Antenna Wireless Networks with Contention-Based Feedback and Delay Constraints," in *Proc. of IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, pp. 789-794, Oct. 29-Nov. 1, 2006 (invited).
37. A. D. Dabbagh and D. J. Love, "Precoding for Multiple Antenna Broadcast Channels with Channel Mismatch," in *Proc. of IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, pp. 1601-1605, Oct. 29-Nov. 1, 2006.
38. A. D. Dabbagh and D. J. Love, "Precoding Schemes for the Downlink of a Multiuser Communication System," in *Proc. of IEEE Global Telecomm. Conf.*, San Francisco, CA, Nov. 27-Dec. 1, 2006.
39. P. Ding, D. J. Love, and M. D. Zoltowski, "Limited Feedback in Multiple Antenna Broadcast Channels," in *Proc. of IEEE Global Telecomm. Conf.*, San Francisco, CA, Nov. 27-Dec. 1, 2006.
40. T. Pande, D. J. Love, and J. V. Krogmeier, "On Some Techniques for Reducing the Feedback Requirement in Precoded MIMO-OFDM," in *Proc. of IEEE Global Telecomm. Conf.*, San Francisco, CA, Nov. 27-Dec. 1, 2006.
41. M. Senel, V. Kapnadak, and D. J. Love, "Spatial Multiplexing with Opportunistic Scheduling for Multiuser MIMO-OFDM Systems," in *Proc. of IEEE Global Telecomm. Conf.*, San Francisco, CA, Nov. 27-Dec. 1, 2006.
42. D. J. Love, B. M. Hochwald, and K. Krishnamurthy, "Exchanging Third Party Information in a Network," in *UCSD Information Theory and Applications Workshop*, La Jolla, CA, Jan. 29-Feb. 2, 2007 (invited).
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