# List of Publications

**Remark:** In certain communities it is common that the order in which co-authors appear is related to their contribution and seniority, in others it is common that co-authors appear in alphabetical order. I have added the sign ' (after the number associated with each paper) marking the entries of papers in which co-authors do not appear in alphabetical order.

Updated April 2019.

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**Peer-Reviewed Journals (published/to appear)**

1. U. Feige and M. Langberg.
   Approximation algorithms for maximization problems arising in graph partitioning.
   *Journal of Algorithms 41(2), 174-211, 2001.*

2. U. Feige, M. Karpinski and M. Langberg.
   A Note on Approximating MAX-BISECTION on Regular Graphs.
   *Information Processing Letters 79, 181-188, 2001.*

3. U. Feige, M. Karpinski and M. Langberg.
   Improved approximation of Max-Cut on graphs of bounded degree.
   *Journal of Algorithm 43(2), 201-219, 2002.*

4. U. Feige, M. Langberg and G. Schechtman.
   Graphs with tiny vector chromatic numbers and huge chromatic numbers.
   *SIAM Journal on Computing 33(6), 1338–1368, 2004.*
   *Also appeared in proceedings of the 43rd Annual IEEE Symposium on Foundations of Computer Science (FOCS), 283-292, 2002.*

5. U. Feige and M. Langberg.
   The $RPR^2$ rounding technique for semidefinite programs.
   *Journal of Algorithms 60(1), 1-23, 2006.*
   *Also appeared in proceedings of 28th International Colloquium on Automata, Languages and Programming (ICALP), 213-224, 2001.*

6'. M. Langberg, A. Sprintson and J. Bruck.
   The encoding complexity of network coding.
   *IEEE Transactions on Information Theory 52(6), 2386-2397, 2006 (a joint special issue with IEEE/ACM Transactions on Networking on Networking and Information Theory).*
   *Also appeared in proceedings of IEEE International Symposium on Information Theory (ISIT) 2005, 1987-1991.*

7. A. Avidor and M. Langberg.
   The Multi-Multiway Cut Problem.
   *Theoretical Computer Science 377(1-3), 35-42, 2007.*
   *Also appeared in proceedings of 9th Scandinavian Workshop on Algorithm Theory (SWAT), 273-284, 2004.*

8. M. Langberg.
   Oblivious channels and their capacity.
   *IEEE Transactions on Information Theory, 54(1), 424-429, 2008.*

*A previous version under the name "Oblivious channels" appeared in IEEE International Symposium on Information Theory (ISIT) 2006, 2739-2743.*

9'. S. Jaggi, M. Langberg, S. Katti, T. Ho, D. Katabi, M. Médard and M. Effros.
Error-correction for Byzantine Adversaries in Networks: A Distributed Network Coding Approach.
*IEEE Transactions on Information Theory (special issue on information-theoretic security) 54(6), 2008, 2596 - 2603.*
*Also appeared in proceedings of 26th Annual IEEE Conference on Computer Communications (IN-FOCOM), 616-624, 2007; and in 3rd Workshop on Network Coding, Theory, and Applications (NetCod) 2007 (invited talk).*

10'. M. Langberg, A. Sprintson and J. Bruck.
Optimal Universal Schedules for Discrete Broadcast.
*IEEE Transactions on Information Theory 54(9): 4365-4372, 2008.*
*Also in proceedings of IEEE International Symposium on Information Theory (ISIT) 2004, p. 111.*

11. J. Gao, M. Langberg and L. Schulman.
Analysis of Incomplete Data and an Intrinsic-Dimension Helly Theorem.
*Discrete & Computational Geometry 40(4): 537-560, 2008.*
*Also in proceedings of 17th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA), 464-473, 2006.*

12'. M. Langberg, A. Sprintson and J. Bruck.
Network Coding: A Computational Perspective.
*IEEE Transactions on Information Theory 55(1): 147-157, 2009.*
*Also in 40'th Annual Conference on Information Sciences and Systems (CISS) 2006 (invited paper).*

13. M. Langberg and L. Schulman.
Contraction and expansion of convex sets.
*Discrete & Computational Geometry 42(4): 594-614, 2009.*
*Also in 19th Canadian Conference on Computational Geometry (CCCG), 25-28, 2007.*

14. G. Kortsarz, M. Langberg and Z. Nutov.
Approximating Maximum Subgraphs Without Short Cycles.
*SIAM J. on Discrete Math 24(1), 255-269, 2010.*
*Also in proceedings of 11th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2008, 118-131.*

15. S. Chechik, M. Langberg, D. Peleg and L. Roditty.
Fault-Tolerant Spanners for General Graphs.
*SIAM Journal on Computing (SICOMP) 39(7), 3403-3423, 2010.*
*Also in proceedings of 41st ACM Symposium on Theory of Computing (STOC), 435-444, 2009.*

16. J. Gao, M. Langberg and L. Schulman.
Clustering lines: classification of incomplete data.
*ACM Transactions on Algorithms, 7(1): 8, 2010.*

17. M. Langberg and A. Sprintson.
On the Hardness of Approximating the Network Coding Capacity.
*IEEE Transactions on Information Theory 57(2): 1008-1014, 2011.*
*Also in proceedings of IEEE International Symposium on Information Theory (ISIT) 2008, 315-319.*

18'. E. En Gad, M. Langberg, M. Schwartz, and J. Bruck.
Constant-Weight Gray Codes for Local Rank Modulation.
*IEEE Transactions on Information Theory 57(11): 7431-7442, 2011.*

19. S. Chechik, M. Langberg, D. Peleg and L. Roditty.
    *f*-Sensitivity Distance Oracles and Routing Schemes.
    *Algorithmica 63(4): 861-882, 2012 (special issue on ESA 2010).*
    *Also in proceedings of 18th Annual European Symposium on Algorithms (ESA) 2010, 84-96.*

20. B. K. Dey, S. Jaggi and M. Langberg.
    Codes Against Online Adversaries: Large Alphabets.
    *IEEE Transactions on Information Theory 59(6): 3304-3316, 2013.*
    *Also in proceedings of the Forty-Seventh Annual Allerton Conference on Communication, Control, and Computing, 2009, 1169-1176.*

21. B. K. Dey, S. Jaggi, M. Langberg, and A. Sarwate.
    Upper Bounds on the Capacity of Binary Channels with Causal Adversaries.
    *IEEE Transactions on Information Theory 59(6): 3753-3763, 2013.*
    This journal submission merges two conference papers:
    - M. Langberg, S. Jaggi and B. K. Dey.
      Binary Causal-Adversary Channels.
      *In proc. of IEEE International Symposium on Information Theory (ISIT) 2009, 2723 - 2727.*
    - B. K. Dey, S. Jaggi, M. Langberg, and A. Sarwate.
      Improved Upper Bounds on the Capacity of Binary Channels with Causal Adversaries.
      *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 686-690.*

22'. A. Jiang, M. Langberg, M. Schwartz and J. Bruck.
    Trajectory Codes for Flash Memory.
    *IEEE Transactions on Information Theory, 59(7): 4530-4541, 2013.*
    *Also in proceedings of IEEE International Symposium on Information Theory (ISIT) 2009, 1219 - 1223.*

23'. A. Ramamoorthy and M. Langberg.
    Communicating the sum of sources over a network.
    *IEEE Journal on Selected Areas of Communications 31(4): 655-665 (Special Issue on In-Network Computation: Exploring the Fundamental Limits) 2013.*
    This journal submission merges two conference papers:
    - M. Langberg and A. Ramamoorthy.
      Communicating the sum of sources in a 3-sources/3-terminals network.
      *In proc. of IEEE International Symposium on Information Theory (ISIT) 2009, 2121-2125.*
    - A. Ramamoorthy and M. Langberg.
      Communicating the sum of sources in a 3-sources/3-terminals network; revisited.
      *In proc. of IEEE International Symposium on Information Theory (ISIT) 2010, 1853-1857.*

24'. E. En Gad, M. Langberg, M. Schwartz, and J. Bruck.
    Generalized Gray Codes for Local Rank Modulation.
    *IEEE Transactions on Information Theory 59(10): 6664-6673, 2013.*
    *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2011, 839-843.*

25'. H. Yao, D. Silva, S. Jaggi and M. Langberg.
    Network Codes Resilient to Jamming and Eavesdropping.
    *IEEE/ACM Transactions on Networking, 22(6), 2014.*
    This journal submission merges two conference papers:
    - S. Jaggi and M. Langberg.
      Resilient network codes in the presence of eavesdropping Byzantine adversaries.
      *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2007, 541-545.*

- H. Yao, D. Silva, S. Jaggi and M. Langberg.
  Network Codes Resilient to Jamming and Eavesdropping.
  *In proceedings of IEEE International Symposium on Network Coding (NetCod) 2010.*

26. M. Effros, S. El Rouayheb, and M. Langberg.
    An Equivalence between Network Coding and Index Coding.
    *IEEE Transactions on Information Theory 61(5): 2478-2487, 2015.*
    *Also in proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 967-971.*

27'. Y. Liron and M. Langberg.
    A characterization of the number of subsequences obtained via the deletion channel.
    *IEEE Transactions on Information Theory 61(5): 2300-2312, 2015.*
    *Also in proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 508-512.*

28'. M. Gonen and M. Langberg.
    The coded cooperative data exchange problem for general topologies.
    *IEEE Transactions on Information Theory, 61(10): 5656-5669, 2015.*
    *Also in proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 2616-2620.*

29'. E. En Gad, Y. Li, J. Kliewer, M. Langberg, A. Jiang and J. Bruck.
    Asymmetric Error Correction and Flash-Memory Rewriting using Polar Codes.
    *IEEE Transactions on Information Theory 62(7): 4024-4038, 2016.*
    This journal submission merges two conference papers:
    - E. En Gad, Y. Li, J. Kliewer, M. Langberg, A. Jiang, and J. Bruck.
      Polar coding for noisy Write-Once memories.
      *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2014, 1638 - 1642.*
    - A. Jiang, Y. Li, E. En Gad, M. Langberg, J. Bruck.
      Joint Rewriting and Error Correction in Write-Once Memories.
      *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 1067-1071. Also in 2014 Non-Volatile Memories Workshop (NVMW 2014).*

30'. W. Huang, M. Langberg, J. Kliewer and J. Bruck.
    Communication Efficient Secret Sharing.
    *IEEE Transactions on Information Theory, 62(12): 7195-7206, 2016.*

31. M. Langberg, M. Schwartz, and E. Yaakobi.
    Coding for the $\ell_\infty$-Limited Permutation Channel.
    *IEEE Transactions on Information Theory, 63(12): 7676-7686, 2017.*
    *Also in proceedings of IEEE International Symposium on Information Theory (ISIT) 2015, 1936-1940.*

32'. P. Noorzad, M. Effros, and M. Langberg.
    The Unbounded Benefit of Encoder Cooperation for the $k$-user MAC.
    *IEEE Transactions on Information Theory, 64(5): 3655-3678, 2018.*
    This journal submission merges two conference papers:
    - P. Noorzad, M. Effros, and M. Langberg.
      On the cost and benefit of cooperation.
      *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2015, 36-40.*

- P. Noorzad, M. Effros, and M. Langberg.
  The Unbounded Benefit of Encoder Cooperation for the $k$-User MAC.
  *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2016, 340-344.*

33'. P. Noorzad, M. Effros, and M. Langberg.
Can Negligible Rate Increase Network Reliability?
*IEEE Transactions on Information Theory, 64(6): 4282-4293, 2018.*
*Also in proceedings of IEEE International Symposium on Information Theory (ISIT), 2016, 1784-1788.*

34. M. Langberg and D. Vilenchik.
Constructing cospectral graphs via a new form of graph product.
*Linear and Multilinear Algebra, 66(9): 1838-1852, 2018.*
*Also in 13th Haifa Workshop on Interdisciplinary Applications of Graph Theory, Combinatorics, and Algorithms, 2013.*

35'. W. Huang, Tracey Ho, M. Langberg, J. Kliewer.
Single-Unicast Secure Network Coding and Network Error Correction are as Hard as Multiple-Unicast Network Coding.
*IEEE Transactions on Information Theory, 64(6): 4496-4512, 2018.*
This journal submission merges three conference papers:
   - W. Huang, T. Ho, M. Langberg, and J. Kliewer.
     On secure network coding with uniform wiretap sets.
     *In proceedings of IEEE International Symposium on Network Coding (NetCod), 2013.*

   - W. Huang, T. Ho, M. Langberg, and J. Kliewer.
     Single Source/Sink Network Error Correction Is As Hard As Multiple Unicast.
     *In proceedings of the Fifty-Second Annual Allerton Conference on Communication, Control, and Computing, 2014.*

   - W. Huang, M. Langberg, and J. Kliewer.
     Connecting multiple-unicast and network error correction: reduction and unachievability.
     *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2015, 361-365.*

36. Z. Chen, S. Jaggi and M. Langberg.
The Capacity of Online (Causal) $q$-ary Error-Erasure Channels.
*To appear in IEEE Transactions on Information Theory, 2019.*
This journal submission merges two conference papers:
   - Z. Chen, S. Jaggi and M. Langberg.
     A characterization of the capacity of online (causal) binary channels.
     *In proceedings of the 47th ACM Symposium on Theory of Computing (STOC), 2015, 287-296.*

   - Z. Chen, S. Jaggi and M. Langberg.
     The Capacity of Online (Causal) $q$-ary Error-Erasure Channels.
     *In proceedings of IEEE International Symposium on Information Theory (ISIT), 2016, 915-919.*

37. B. K. Dey, S. Jaggi, and M. Langberg.
Sufficiently myopic adversaries are blind.
*To appear in IEEE Transactions on Information Theory, 2019.*
*Also in proceedings of IEEE International Symposium on Information Theory (ISIT), 2015, 1164-1168.*

**Peer-Reviewed Journals (submitted)**

38'. M. Langberg and M. Effros.
The edge removal problem as a canonical problem in network coding.
*Submitted for journal publication (IEEE Transactions on Information Theory). In second round of review process.*
This journal submission merges two conference papers:

- M. Langberg and M. Effros.
Network Coding: Is zero error always possible?
*In proceedings of Forty-Ninth Annual Allerton Conference on Communication, Control, and Computing, 2011, 1478-1485.*

- M. Langberg and M. Effros.
Source coding for dependent sources.
*In proceedings of IEEE Information Theory Workshop (ITW), 2012.*

39. I. Haviv and M. Langberg.
*H*-wise Independence.
*Submitted for journal publication (Chicago Journal of Theoretical Computer Science).*
*Also in proceedings of Innovations in Theoretical Computer Science (ITCS), 2013, 541-551.*

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**Peer-Reviewed Conference Proceedings (appeared/to appear)**

1. U. Feige, M. Langberg and K. Nissim.
On the hardness of approximating NP witnesses.
*In proceedings of 3rd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 120-131, 2000.*

2. U. Feige and M. Langberg.
The $RPR^2$ rounding technique for semidefinite programs.
*In proceedings of 28th International Colloquium on Automata, Languages and Programming (ICALP), 213-224, 2001.*

3. U. Feige, M. Langberg and G. Schechtman.
Graphs with tiny vector chromatic numbers and huge chromatic numbers.
*In proceedings of the 43rd Annual IEEE Symposium on Foundations of Computer Science (FOCS), 283-292, 2002.*

4. M. Langberg, A. Pnueli and Y. Rodeh.
The ROBDD size of simple CNF formulas.
*In proceedings of 12th Advanced Research Working Conference on Correct Hardware Design and Verification Methods (CHARME), 363-377, 2003.*

5. M. Langberg.
Testing the independence number of hypergraphs.
*In proceedings of 8th International Workshop on Randomization and Computation (RANDOM), 405-416, 2004.*

6. M. Langberg.
Private codes or Succinct random codes that are (almost) perfect.
*In proceedings of 45th Annual IEEE Symposium on Foundations of Computer Science (FOCS), 325-334, 2004.*

7'. M. Langberg, A. Sprintson and J. Bruck.
Optimal Universal Schedules for Discrete Broadcast.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), p. 111, 2004.*

8. A. Avidor and M. Langberg.
The Multi-Multiway Cut Problem.
*In proceedings of 9th Scandinavian Workshop on Algorithm Theory (SWAT), 273-284, 2004.*

9'. M. Langberg, A. Sprintson and J. Bruck.
Staleness vs. Waiting Time in Universal Discrete Broadcast.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2005, 2124-2128.*

10'. M. Langberg, A. Sprintson and J. Bruck.
The encoding complexity of network coding.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2005, 1987-1991.*

11'. S. Jaggi, M. Langberg, T. Ho and M. Effros.
Correction of Adversarial Errors in Networks.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2005, 1455-1459.*

12. M. Langberg, Y. Rabani and C. Swamy.
Approximation Algorithms for Graph Homomorphism Problems.
*In proceedings of 9th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2006, 176-187.*

13. J. Gao, M. Langberg and L. Schulman.
Analysis of Incomplete Data and an Intrinsic-Dimension Helly Theorem.
*In proceedings of 17th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA), 464-473, 2006.*

14. M. Langberg.
Oblivious channels.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2006, 2739-2743.*

15. S. Jaggi and M. Langberg.
Resilient network codes in the presence of eavesdropping Byzantine adversaries.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2007, 541-545.*

16. M. Langberg and L. Schulman.
Contraction and expansion of convex sets.
*In 19th Canadian Conference on Computational Geometry (CCCG), 2007, 25-28*

17'. S. Jaggi, M. Langberg, S. Katti, T. Ho, D. Katabi, M. Médard and M. Effros.
Error-correction for Byzantine Adversaries in Networks: A Distributed Network Coding Approach.
*In proceedings of 26th Annual IEEE Conference on Computer Communications (INFOCOM), 2007, 616-624.*

18'. S. Shengvi, S. Jaggi, B. K. Dey and M. Langberg.
"Real" Slepian-Wolf coding using Random (1,-1) Matrices.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2008, 1423-1427.*

19'. L. Nutman and M. Langberg.
Adversarial Models and Resilient Schemes for Network Coding.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2008, 171-175.*

20. M. Langberg and A. Sprintson.
    On the Hardness of Approximating the Network Coding Capacity.
    *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2008, 315-319.*

21. G. Kortsarz, M. Langberg and Z. Nutov.
    Approximating Maximum Subgraphs Without Short Cycles.
    *In proceedings of 11th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2008, 118-131.*

22. M. Langberg and A. Ramamoorthy.
    Communicating the sum of sources in a 3-sources/3-terminals network.
    *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2009, 2121-2125.*

23'. A. Jiang, M. Langberg, M. Schwartz and J. Bruck.
    Trajectory Codes for Flash Memory.
    *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2009, 1219 - 1223.*

24' M. Langberg, S. Jaggi and B. K. Dey.
    Binary Causal-Adversary Channels.
    *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2009, 2723 - 2727.*

25. M. Langberg and M. Médard.
    On the Multiple Unicast Network Coding Conjecture.
    *In proceedings of the Forty-Seventh Annual Allerton Conference on Communication, Control, and Computing, 2009, 222 - 227.*

26. B. K. Dey, S. Jaggi and M. Langberg.
    Codes against online adversaries, Part I: Large alphabets.
    *In proceedings of the Forty-Seventh Annual Allerton Conference on Communication, Control, and Computing, 2009, 1169-1176.*

27'. A. Jiang, M. Langberg, R. Mateescu and J. Bruck.
    Data Movement in Flash Memories.
    *In proceedings of the Forty-Seventh Annual Allerton Conference on Communication, Control, and Computing, 2009, 1031 - 1038.*

28. S. Chechik, M. Langberg, D. Peleg and L. Roditty.
    Fault-Tolerant Spanners for General Graphs.
    *In proceedings of 41st ACM Symposium on Theory of Computing (STOC), 2009, 435-444.*

29'. H. Yao, D. Silva, S. Jaggi and M. Langberg.
    Network Codes Resilient to Jamming and Eavesdropping.
    *In proceedings of IEEE International Symposium on Network Coding (NetCod), 2010, 1-6.*

30. M. Langberg and L. Schulmann.
    Universal $\epsilon$-approximators for integrals.
    *In proceedings of ACM-SIAM Symposium on Discrete Algorithms (SODA) 2010, 598-607.*

31. R. Bar-Yanai, M. Langberg, D. Peleg and L. Roditty.
    Realtime Classification for Encrypted traffic.
    *In proceedings of 9th International Symposium on Experimental Algorithms (SEA) 2010, 373-385.*

32'. A. Ramamoorthy and M. Langberg.
    Communicating the sum of sources in a 3-sources/3-terminals network; revisited.
    *In proceedings of IEEE International Symposium on Information Theory (ISIT) 2010, 1853-1857.*

33'. A. Jiang, M. Langberg, R. Mateescu and J. Bruck.
Data movement and aggregation in flash memories.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2010, 1918 - 1922.*

34. B. K. Dey, S. Jaggi, M. Langberg, and A. Sarwate.
Codes against Delayed Adversaries.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2010, 285 - 289.*

35'. R. A. Costa, M. Langberg, and J. Barros
One-Shot Capacity of Discrete Channels.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2010, 211 - 215.*

36. S. Chechik, M. Langberg, D. Peleg and L. Roditty.
$f$-Sensitivity Distance Oracles and Routing Schemes.
*In proceedings of 18th Annual European Symposium on Algorithms (ESA) 2010, 84-96.*

37. D. Feldman and M. Langberg.
A Unified Framework for Approximating and Clustering Data.
*In 43rd ACM Symposium on Theory of Computing (STOC), 2011, 569-578.*

38. I. Haviv and M. Langberg.
Beating the Gilbert-Varshamov Bound for Online Channels.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2011, 1297-1301.*

39'. E. En Gad, M. Langberg, M. Schwartz, and J. Bruck.
Generalized Gray Codes for Local Rank Modulation.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2011, 839-843.*

40'. M. A. R. Chaudhry, Z. Asad, A. Sprintson, and M. Langberg.
On the Complementary Index Coding Problem.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2011, 306-310.*

41. Y. Berliner and M. Langberg.
Index coding with outerplanar side information.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2011, 869-873.*

42'. M. A. R. Chaudhry, Z. Asad, A. Sprintson, and M. Langberg.
Finding Sparse Solutions for the Index Coding Problem.
*In proceedings of IEEE GLOBECOM - Wireless Communications Symposium, 2011, 1-5.*

43'. M. Langberg and M. Effros.
Network Coding: Is zero error always possible?
*In proceedings of Forty-Ninth Annual Allerton Conference on Communication, Control, and Computing, 2011, 1478-1485.*

44'. Y. Liron and M. Langberg.
A characterization of the number of subsequences obtained via the deletion channel.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 508-512.*

45. B. K. Dey, S. Jaggi, M. Langberg, and A. Sarwate.
Improved Upper Bounds on the Capacity of Binary Channels with Causal Adversaries.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 686-690.*

46. M. Gonen and M. Langberg.
The coded cooperative data exchange problem for general topologies.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 2616-2620.*

47. I. Haviv and M. Langberg.
On Linear Index Coding for Random Graphs.
*In proceedings of IEEE International Symposium on Information Theory (ISIT) 2012, 2241-2245.*

48'. M. Langberg and M. Effros.
Source coding for dependent sources.
*In proceedings of IEEE Information Theory Workshop (ITW), 2012.*

49. I. Haviv and M. Langberg.
*H*-wise independent distributions.
*In proceedings of Innovations in Theoretical Computer Science (ITCS), 2013, 541-551.*

50. P. H. Che, M. Chen, T. Ho, S. Jaggi, and M. Langberg.
Routing for Security in Networks with Adversarial Nodes.
*In proceedings of IEEE International Symposium on Network Coding (NetCod), 2013.*

51'. W. Huang, T. Ho, M. Langberg, and J. Kliewer.
On secure network coding with uniform wiretap sets.
*In proceedings of IEEE International Symposium on Network Coding (NetCod), 2013.*

52'. M. F. Wong, M. Langberg, and M. Effros.
On a Capacity Equivalence between Network and Index Coding and the Edge Removal Problem.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 972-976.*

53'. E. Yaakobi, M. Schwartz, M. Langberg, and J. Bruck.
Sequence Reconstruction for Grassmann Graphs and Permutations.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 874-878.*

54. M. Effros, S. El Rouayheb, and M. Langberg.
An Equivalence between Network Coding and Index Coding.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 967-971.*

55'. K. Shanmugam, A. G. Dimakis, and M. Langberg.
Local Graph Coloring and Index Coding.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 1152-1156.*

56'. E. Yaakobi, M. Langberg, and J. Bruck.
Information-Theoretic Study of Voting Systems.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 1087-1091.*

57'. A. Jiang, Y. Li, E. En Gad, M. Langberg, J. Bruck.
Joint Rewriting and Error Correction in Write-Once Memories.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2013, 1067-1071.*
*Also in 2014 Non-Volatile Memories Workshop (NVMW 2014).*

58'. I. Levi, D. Vilenchik, M. Langberg and M. Effros.
Zero vs. epsilon error in interference channels.
*In proceedings of IEEE Information Theory Workshop (ITW), 2013.*

59'. E. J. Lee, M. Langberg, and M. Effros.
Outer bounds and functional study of the edge removal problem.
*In proceedings of IEEE Information Theory Workshop (ITW), 2013.*

60'. M. F. Wong, M. Langberg, and M. Effros.
On an Equivalence between Multiple Multicast and Multiple Unicast Index Coding.
*In proceedings of Fifty-first Annual Allerton Conference on Communication, Control, and Computing, 2013.*

61'. W. Huang, T. Ho, M. Langberg, and J. Kliewer.
Reverse Edge Cut-Set Bounds for Secure Network Coding.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2014, 106 - 110.*

62'. E. En Gad, Y. Li, J. Kliewer, M. Langberg, A. Jiang, and J. Bruck.
Polar coding for noisy Write-Once memories.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2014, 1638 - 1642.*

63'. K. Shanmugam, A. G. Dimakis, and M. Langberg.
Graph Theory versus Minimum Rank for Index Coding.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2014, 291 - 295.*

64'. P. Noorzad, M. Effros, M. Langberg, and T. Ho.
On the Power of Cooperation: Can a Little Help a Lot.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2014, 3132 - 3136.*

65'. M. F. Wong, M. Langberg, and M. Effros.
Linear Capacity Equivalence Between Multiple Multicast and Multiple Unicast.
*In proceedings of IEEE International Symposium on Information Theory (ISIT), 2014, 2152 - 2156.*

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