

Publications

August 3, 2015

Books, Monographs and Book Chapters

1. I. Necoara, A. Patrascu and A. Nedić, “Complexity certifications of first order inexact Lagrangian methods for general convex programming: application to real-time MPC,” book chapter, submitted April 2015, revised July 2015.
2. A. Nedić. “Convergence Rate of Distributed Averaging Dynamics and Optimization in Networks,” *Foundations and Trends in Systems and Control*, 2 (1) 1–100, 2015.
3. K. Srivastava, A. Nedić, and D. Stipanović. “Distributed Bregman-Distance Algorithms for Min-Max Optimization,” a chapter in the book *Agent-Based Optimization*, I. Czarnowski, P. Jedrzejowicz and J. Kacprzyk (Eds.), Springer Studies in Computational Intelligence (SCI), pp. 143–174, 2013.
4. A. Nedić and A. Ozdaglar. “Cooperative Distributed Multi-Agent Optimization,” in the book *Convex Optimization in Signal Processing and Communications*, Y. Eldar and D. Palomar (Eds.) Cambridge University Press, pp. 340–386, 2010.
5. S. Sundhar Ram, V.V. Veeravalli, and A. Nedić. “Distributed and Recursive Nonlinear Least Square Parameter Estimation: Linear and Separable Models,” in the book *Sensor Networks: Where Theory Meets Practice*, G. Ferrari (Ed.) Springer-Verlag, pp. 17–38, 2009.
6. D. P. Bertsekas, A. Nedić, and A. E. Ozdaglar. *Convex Analysis and Optimization*, Athena Scientific, Belmont, MA, USA, 2003.

Expository Articles (peer reviewed)

1. A. Nedić, “Distributed Optimization,” expository article for *Encyclopedia of Systems and Control*, edited by T. Samad and J. Baillieul, Springer-Verlag, London, 2015.
2. A. Nedić, “Lagrangian Optimization Methods for Nonlinear Programming,” *Wiley Encyclopedia of Operations Research and Management Science*, 2011.

Journal Papers (under review/revision)

1. A. Nedić, A. Olshevsky and C.A. Uribe, “Non-asymptotic Convergence Rates for Distributed Non-Bayesian Learning,” near journal submission, July 2015
2. K. Cohen, A. Nedić and R. Srikant, “Distributed Learning Algorithms for Spectrum Sharing in Spatial Random Access Wireless Networks,” submitted, July 2015

3. F. Yousefian, A. Nedić, and U.V. Shanbhag, “On Smoothing, Regularization and Averaging in Stochastic Approximation Methods for Stochastic Variational Inequalities,” submitted November 2014
4. A. Nedić and J. Liu, “Lyapunov Approach to Consensus Problems,” submitted to IEEE Transactions on Control, July 2014, a report is on arxiv at <http://arxiv.org/abs/1407.7585>.
5. A. Nedić and A. Olshevsky, “Stochastic Gradient-Push for Strongly Convex Functions on Time-Varying Directed Graphs,” submitted to IEEE Transactions on Control, a report is on arxiv at <http://arxiv.org/abs/1406.2075>.
6. M. Raginsky and A. Nedić, “Online Discrete Optimization in Social Networks in the Presence of Knightian Uncertainty,” submitted July 1, 2013, revised January 2015.
7. J. Koshal, A. Nedić and U. V. Shanbhag, “Distributed Algorithms for Aggregative Games on Graphs,” submitted November 2012, revised October 2014.

Conference Papers (under review)

1. S. Bhatti, A. Nedić, and C. Beck, “Data Clustering via Resource Diffusion,” submitted to NIPS, May 2015

Journal Papers (published or accepted)

1. S. Lee and A. Nedić, “Asynchronous Gossip-Based Random Projection Algorithms Over Networks,” submitted April 4, 2013, accepted in IEEE Transactions on Control 2015.
2. F. Yousefian, A. Nedić and U. V. Shanbhag “Self-tuned stochastic approximation schemes for non-Lipschitzian stochastic multi-user optimization and Nash games,” submitted January 2013, revised January 2014, accepted in IEEE Transactions on Control 2015.
3. A. Nedić and A. Olshevsky, “Distributed optimization over time-varying directed graphs,” *IEEE Transactions on Control*, 60 (3) 601–615, 2015.
4. T-H. Chang, A. Nedić, and A. Scaglione, “Distributed Constrained Optimization by Consensus-Based Primal-Dual Perturbation Method,” *IEEE Transactions on Automatic Control* 59 (6) 1524–1538, 2014.
5. A. Beck, A. Nedić, A. Ozdaglar, and M. Teboulle “Optimal Distributed Gradient Methods for Network Resource Allocation Problems,” to appear in the inaugural issue of the *IEEE Transactions on Control of Network Systems* 1 (1) 64–74, 2014.
6. A. Nedić and S. Lee, “On Stochastic Subgradient Mirror-Descent Algorithm with Weighted Averaging,” *SIAM Journal on Optimization* 24 (1) 84–107, 2014.
7. B. Touri and A. Nedić, “Product of Random Stochastic Matrices,” *IEEE Transactions on Automatic Control* 59 (2) 437–448, 2014.
8. S. Lee and A. Nedić, “Distributed Random Projection Algorithm for Convex Optimization,” *IEEE Journal of Selected Topics in Signal Processing*, a special issue on *Adaptation and Learning over Complex Networks* 7, 221–229, 2013.

9. V. Skachek, O. Milenkovic and A. Nedić, “Hybrid Noncoherent Network Coding,” *IEEE Transactions on Information Theory* 59 (6) 3317–3331, 2013.
10. A. Nedić and D. Bauso, “Dynamic Coalitional TU Games: Distributed Bargaining among Players’ Neighbors,” *IEEE Transactions on Automatic Control* 58 (6) 1363–1376, 2013.
11. J. Koshal, A. Nedić, and U.V. Shanbhag, “Regularized Iterative Stochastic Approximation Methods for Variational Inequality Problems,” *IEEE Transactions on Automatic Control* 58 (3) 594–609, 2013.
12. B. Touri and A. Nedić, “On Backward Product of Stochastic Matrices,” *Automatica* 48 (8) 1477–1488, 2012.
13. B. Touri and A. Nedić, “On Approximations and Ergodicity Classes in Random Chains,” *IEEE Transactions on Automatic Control* 57 (11) 2718–2730, 2012.
14. F. Yousefian, A. Nedić, and U.V. Shanbhag, “On stochastic gradient and subgradient methods with adaptive steplength sequences,” full version at <http://arxiv.org/abs/1105.4549>; a shorter version appeared in *Automatica* 48 (1) 56–67, 2012.
15. S.S. Ram, A. Nedić, and V.V. Veeravalli “A New Class of Distributed Optimization Algorithms: Application to Regression of Distributed Data,” *Optimization Methods and Software* 27(1) 71–88, 2012.
16. J. Koshal, A. Nedić, and U.V. Shanbhag, “Multiuser Optimization: Distributed Algorithms and Error Analysis,” *SIAM Journal on Optimization* 21(3) 1046–1081, 2011.
17. K. Srivastava and A. Nedić, “Distributed Asynchronous Constrained Stochastic Optimization,” *IEEE Journal of Selected Topics in Signal Processing*, Special issue on “Gossiping Algorithms Design and Applications,” edited by M. Coates, M. Gastpar, A. Scaglione, J. Tsitsiklis, and M. Vetterli, 5 (4) 772–790, 2011.
18. A. Nedić, “Random Projection Algorithms for Convex Minimization Problems,” *Mathematical Programming*, Series B, Special issue in honor of Paul Tseng on “Large Scale Optimization: Analysis, Algorithms and Applications,” 129, 225–253, 2011.
19. B. Touri and A. Nedić, “On Ergodicity, Infinite Flow and Consensus in Random Models,” *IEEE Transactions on Automatic Control*, 56 (7) 1593–1605, 2011.
20. A. Nedić, “Asynchronous Broadcast-Based Convex Optimization over a Network,” *IEEE Transactions on Automatic Control*, 56 (6) 1337–1351, 2011.
21. S. Sundhar Ram, A. Nedić, and V.V. Veeravalli, “Distributed Stochastic Subgradient Projection Algorithms for Convex Optimization,” *Journal of Optimization Theory and Applications*, 147 (3) 516–545, 2010.
22. A. Nedić and D.P. Bertsekas, “The Effect of Deterministic Noise in Subgradient Methods,” *Mathematical Programming*, 125 (1) 75–99, 2010.
23. S. Sundhar Ram, V.V. Veeravalli, and A. Nedić, “Distributed and Recursive Parameter Estimation in Parametrized Linear State-Space Models,” *IEEE Transactions on Automatic Control* 55 (2) 488–492, 2010.

24. A. Nedić, A. Ozdaglar, and P.A. Parrilo, “Constrained Consensus and Optimization in Multi-Agent Networks,” *IEEE Transactions on Automatic Control* 55 (4) 922–938, 2010.
25. A. Nedić and A. Ozdaglar, “Convergence Rate for Consensus with Delays,” *Journal of Global Optimization* 47 (3) 437–456, 2010.
26. A. Nedić, A. Olshevsky, A. Ozdaglar, and J.N. Tsitsiklis, “On Distributed Averaging Algorithms and Quantization Effects,” *IEEE Transactions on Automatic Control* 54 (11) 2506–2517, 2009. A short version in *Proceedings of the 47th IEEE CDC Conference* 4825–4830, 2008.
27. S. Sundhar Ram, A. Nedić, and V.V. Veeravalli, “Incremental Stochastic Subgradient Algorithms for Convex Optimization,” *SIAM Journal on Optimization* 20 (2) 691–717, 2009.
28. A. Nedić and A. Ozdaglar, “Subgradient Methods for Saddle-Point Problems,” *Journal of Optimization Theory and Applications* 142 (1) 205–228, 2009.
29. A. Nedić and A. Ozdaglar, “Distributed Subgradient Methods for Multi-agent Optimization,” *IEEE Transactions on Automatic Control* 54 (1) 48–61, 2009.
30. A. Nedić and A. Ozdaglar, “Approximate Primal Solutions and Rate Analysis in Dual Subgradient Methods,” *SIAM Journal on Optimization* 19 (4) 1757–1780, 2009.
31. A. Nedić and A. Ozdaglar, “Separation of Nonconvex Sets with General Augmenting Functions,” *Mathematics of Operations Research*, 33 (3), 587–605, 2008.
32. A. Nedić and A. Ozdaglar, “A Geometric Framework for Nonconvex Optimization Duality using Augmenting Lagrangian Functions,” *Journal of Global Optimization* 40 (4) 545–573, 2008.
33. A. Nedić, A. Ozdaglar and A. Rubinov, “Abstract Convexity for Nonconvex Optimization Duality,” *Optimization*, vol. 56, 655–674, 2007.

Conference Papers (peer reviewed - published or accepted)

1. A. Kannan, A. Nedić, and U. V. Shanbhag, “Distributed Stochastic Optimization under Imperfect Information,” accepted at CDC 2015 Conference
2. M. T. Hale, A. Nedić and M. Egerstedt, “Hybrid Centralized/Decentralized Multi-Agent Optimization with Communication Delays,” accepted at CDC 2015 Conference
3. P. E. Pare, C. L. Beck, and A. Nedić, “Stability Analysis and Control of Virus Spread over TimeVarying Networks,” accepted at CDC 2015 Conference
4. I. Necoara and A. Nedic, “A fully distributed dual gradient method with linear convergence for large-scale separable convex problems,” Proceedings of the 14th European Control Conference (ECC’15), Johannes Kepler University, Linz, Austria, July 15-17, 2015, pp. 305–309.
5. A. Nedić, A. Olshevsky and C.A. Uribe, “Nonasymptotic Convergence Rates for Cooperative Learning Over Time-Varying Directed Graphs,” American Control Conference (ACC), Chicago, IL, July 1-3, 2015, pp. 5884–5889.

6. A. Nedić, S. Lee, and M. Raginsky, “Decentralized Online Optimization with Global Objectives and Local Communication,” American Control Conference (ACC), Chicago, IL, July 1-3, 2015, pp. 4497–4503.
7. K. Cohen, A. Nedić, and R. Srikant “Distributed Learning Algorithms for Spectrum Sharing in Spatial Random Access Networks,” Proceedings of the 13th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt’15), IIT Bombay, May 25–29, 2015 (**Best Paper Award**), pp. 513–520.
8. C. Singh, A. Nedić, and R. Srikant, “Random Block Coordinate Gradient Projection Algorithms,” Proceedings of the 53rd IEEE Conference on Decision and Control (CDC) 2014, Los Angeles, California, December 15-17, 2014, pp. 185–190.
9. C. Wilson, V.V. Veeravalli, and A. Nedić, “Dynamic Stochastic Optimization,” Proceedings of the 53 IEEE Conference on Decision and Control (CDC) 2014, Los Angeles, California, December 15–17, 2014, pp. 173–178.
10. J. Liu, A.S. Morse, A. Nedić, and T. Başar, “Internal Stability of Linear Consensus Processes,” Proceedings of the 53rd IEEE Conference on Decision and Control (CDC) 2014, Los Angeles, California, December 15-17, 2014, pp. 922–927.
11. J. Liu, A. Nedić, and T. Başar, “Complex Constrained Consensus,” Proceedings of the 53 IEEE Conference on Decision and Control (CDC) 2014, Los Angeles, California, December 15–17, 2014, pp. 1464–1469.
12. J. Liu, A.S. Morse, A. Nedić, and T. Başar, “Stability of a Distributed Algorithm for Solving Linear Algebraic Equations,” Proceedings of the 53 IEEE Conference on Decision and Control (CDC) 2014, Los Angeles, California, December 15–17, 2014, pp. 3707–3712.
13. F. Yousefian, A. Nedić, and U. V. Shanbhag, “Optimal robust smoothing extragradient algorithms for stochastic variational inequality problems,” Proceedings of the 53 IEEE Conference on Decision and Control (CDC) 2014, Los Angeles, California, December 15–17, 2014, pp. 5831–5836.
14. A. Nedić and J. Liu, “A Lyapunov Approach to Discrete-Time Linear Consensus,” Proceedings of the 2nd Global Conference on Signal and Information Processing (GlobalSIP) 2014, Atlanta, Georgia, December 3-5, 2014, pp. 842–846.
15. M. Raginsky and A. Nedić “Online Discrete Optimization in Social Networks,” Proceedings of IEEE American Control Conference (ACC), Portland, Oregon, June 4–6, 2014, pp. 3796–3801.
16. C. Singh, A. Nedić, and R. Srikant “LP-relaxation based Distributed Algorithms for Scheduling in Wireless Networks,” Proceedings of IEEE INFOCOM, Toronto, Canada, April 27–May 2, 2014, pp. 1905–1913.
17. A. Nedić and A. Olshevsky, “Distributed optimization over time-varying directed graphs,” Proceedings of the 52nd IEEE Conference on Decision and Control (CDC), Florence, Italy, December 10–13, 2013, pp. 6855–6860.
18. S. Lee and A. Nedić, “Gossip-based Random Projection Algorithm for Distributed Optimization: Error Bounds,” Proceedings of the 52nd IEEE Conference on Decision and Control (CDC), Florence, Italy, December 10–13, 2013, pp. 6874–6879.

19. F. Yousefian, A. Nedić and U. V. Shanbhag, “A Regularized Smoothing Stochastic Approximation (RSSA) Algorithm for Stochastic Variational Inequality Problems,” Proceedings of the 2013 Winter Simulation Conference, R. Pasupathy, S.-H. Kim, A. Tolk, R. Hill, and M.E. Kuhl, eds., Washington, DC, December 8–11, 2013, pp. 933–944. Winner of **The Best Theoretical Paper of the 2013 Winter Simulation Conference**.
20. A. Nedić and A. Olshevsky “Distributed Optimization of Strongly Convex Functions on Directed Time-Varying Graphs,” Proceedings of the inaugural IEEE Global Conference on Signal and Information Processing (GlobalSIP) Conference, Austin, Texas, December 3–5, 2013, pp. 329–332.
21. S. Lee and A. Nedić “Distributed Mini-batch Random Projection Algorithms for Reduced Communication Overhead,” Proceedings of the inaugural IEEE Global Conference on Signal and Information Processing (GlobalSIP) Conference, Austin, Texas, December 3–5, 2013, pp. 559–562.
22. T-H. Chang, A. Nedić, and A. Scaglione “Distributed Sparse Regression by Consensus-Based Primal-Dual Perturbation Optimization,” Proceedings of the inaugural IEEE Global Conference on Signal and Information Processing (GlobalSIP) Conference, Austin, Texas, December 3–5, 2013, pp. 289–292.
23. B. Touri, F. Farnoud, A. Nedić, and O. Milenkovic, “A General Framework for Distributed Vote Aggregation”, Proceedings of the IEEE American Control Conference (ACC), Washington, DC, USA, June 17–19, 2013, pages 3833–3838.
24. S.R. Etesami, T. Başar, A. Nedić, and B. Touri, “Termination Time of Multidimensional Hegselmann-Krause Opinion Dynamics,” Proceedings of the IEEE American Control Conference (ACC), Washington, DC, USA, June 17–19, 2013, pages 1257–1262.
25. F. Yousefian, A. Nedić, and U.V. Shanbhag, “A distributed adaptive steplength stochastic approximation method for monotone stochastic Nash Games,” Proceedings of the IEEE American Control Conference (ACC), Washington, DC, USA, June 17–19, 2013, pages 4772–4777.
26. S. Lee and A. Nedić, “Epoch Gradient Descent for Smoothed Hinge-loss Linear SVMs,” Proceedings of the IEEE American Control Conference (ACC), Washington, DC, USA, June 17–19, 2013, pages 4796–4801.
27. S. Lee and A. Nedić, “DrSVM: Distributed Random Projection Algorithms for SVMs,” Proceedings of the 51st IEEE Conference on Decision and Control (CDC), Maui, Hawaii, December 9–13, 2012, pp. 5286–5291.
28. A. Nedić and B. Touri, “Multi-Dimensional Hegselmann-Krause Dynamics,” Proceedings of the 51st IEEE Conference on Decision and Control (CDC), Maui, Hawaii, December 9–13, 2012, pp. 68–73.
29. B. Touri, T. Başar, and A. Nedić, “On Averaging Dynamics in General State Spaces,” Proceedings of the 51st IEEE Conference on Decision and Control (CDC), Maui, Hawaii, December 9–13, 2012, pp. 62–67.
30. J. Koshal, A. Nedić, and U.V. Shanbhag, “A Gossip Algorithm for Aggregative Games on Graphs,” Proceedings of the 51st IEEE Conference on Decision and Control (CDC), Maui, Hawaii, December 9–13, 2012, pp. 4840–4845.

31. M. Rabbat and A. Nedić, “Convergence Properties of Normalized Random Incremental Gradient Algorithms for Least-Squares Source Localization,” to appear in the Proceedings of 2012 Asilomar Conference on Signals, Systems, and Computers, November 4–7, 2012, Pacific Grove, CA.
32. S. Lee and A. Nedić, “Asynchronous Gossip-Based Random Projection Algorithms for Fully Distributed Problems,” to appear in the Proceedings of 2012 Asilomar Conference on Signals, Systems, and Computers, November 4–7, 2012, Pacific Grove, CA.
33. V. Skachek, O. Milenković and A. Nedić, “Hybrid Noncoherent Network Coding,” Proceedings of the 2012 International Symposium on Network Coding (NETCOD), Boston, June 29–30, 2012.
34. A. Nedić and D. Bauso, “Constrained Consensus for Bargaining in Dynamic Coalitional TU Games,” Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC), Orlando, Florida, December 2011, pp. 229–234.
35. B. Touri and A. Nedić, “Alternative Characterization of Ergodicity for Doubly Stochastic Chains,” Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC), Orlando, Florida, December 2011, pp. 5371–5376.
36. B. Touri and A. Nedić, “On Existence of a Quadratic Comparison Function for Random Weighted Averaging Dynamics and Its Implications,” Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC), Orlando, Florida, December 2011, pp. 3806–3811.
37. F. Yousefian, A. Nedić and U.V. Shanbhag, “A regularized adaptive steplength stochastic approximation scheme for monotone stochastic variational inequalities,” Proceedings of the 2011 Winter Simulation Conference, S. Jain, R. R. Creasey, J. Himmelspace, K. P. White, and M. Fu, eds., 2011, pp. 4110–4121.
38. J. Koshal, A. Nedić, and U.V. Shanbhag, “Single Timescale Stochastic Approximation for Stochastic Nash Games in Cognitive Radio Systems,” Proceedings of the 17th Digital Signal Processing Conference (DSP), July 2011.
39. K. Srivastava, A. Nedić, and D. Stipanović, “Distributed Min-Max Optimization in Networks,” Proceedings of the 17th Digital Signal Processing Conference (DSP), July 2011
40. B. Touri and A. Nedić “Approximation and Limiting Behavior of Random Models,” *Proceedings of the 49th IEEE Conference on Decision and Control* (CDC), Atlanta, Georgia, December 2010, pp. 2656–2663.
41. B. Touri and A. Nedić “When Infinite Flow is Sufficient for Ergodicity,” *Proceedings of the 49th IEEE Conference on Decision and Control* (CDC), Atlanta, Georgia, December 2010, pp. 7479–7486.
42. J. Koshal, A. Nedić and U.V. Shanbhag, “Single Timescale Regularized Stochastic Approximation Schemes for Monotone Nash games under Uncertainty,” *Proceedings of the 49th IEEE Conference on Decision and Control* (CDC), Atlanta, Georgia, December 2010, pp. 231–236.
43. K. Srivastava, A. Nedić, and Dušan Stipanović, “Distributed Constrained Optimization over Noisy Networks,” *Proceedings of the 49th IEEE Conference on Decision and Control* (CDC), Atlanta, Georgia, December 2010, pp. 1945–1950.

44. A. Nedić, “Random Projection Algorithms for Convex Set Intersection Problems,” *Proceedings of the 49th IEEE Conference on Decision and Control (CDC)*, Atlanta, Georgia, December 2010, pp. 7655–7660.
45. F. Yousefian, A. Nedić, and U.V. Shanbhag, “Convex Non-differentiable Stochastic Optimization: A Local Randomized Smoothing Technique,” *Proceedings of the IEEE American Control Conference (ACC)*, Baltimore, Maryland, July 2010, pp. 4875–4880.
46. S. Sundhar Ram, A. Nedić, and V.V. Veeravalli, “Asynchronous Gossip Algorithms for Stochastic Optimization: Constant Stepsize Analysis,” in edited book *Recent Advances in Optimization and its Applications in Engineering*, volume of the 14th Belgian-French-German Conference on Optimization, M. Diehl, F. Glineur, E. Jarlebring and W. Michiels (Eds.), 2010, pp. 51–60.
47. S. Sundhar Ram, A. Nedić, and V.V. Veeravalli, “Asynchronous Gossip Algorithms for Stochastic Optimization,” *Proceedings of the 48th IEEE Conference on Decision and Control (CDC)*, Shanghai, China, December 2009, pp. 3581–3586.
48. J. Koshal, A. Nedić, and U.V. Shanbhag, “Distributed Multi-User Optimization: Algorithms and Error Analysis,” *Proceedings of the 48th IEEE Conference on Decision and Control (CDC)*, Shanghai, China, December 2009, pp. 4372–4377.
49. B. Touri and A. Nedić, “Distributed Consensus over Network with Noisy Links,” *12th International Conference on Information Fusion*, Seattle, Washington, July 2009, pp. 146–154.
50. A. Nedić and V.G. Subramanian, “Approximately Optimal Utility Maximization” *IEEE Information Theory Workshop on Networking and Information Theory*, Volos, Greece, June, 2009, pp. 206–210.
51. S. Sundhar Ram, A. Nedić, and V.V. Veeravalli, “Distributed Subgradient Projection Algorithm for Convex Optimization,” *Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Taipei, Taiwan, April 2009, pp. 3653–3656.
52. S. Sundhar Ram, V.V. Veeravalli, and A. Nedić, “Distributed Non-Autonomous Power Control through Distributed Convex Optimization,” *Proceedings of the 28th IEEE Conference on Computer Communications (INFOCOM) Mini-Conference*, Rio de Janeiro, April 2009, pp. 3001–3005.
53. D. Acemoglu, A. Nedić, and A. Ozdaglar, “Convergence of Rule-of-Thumb Learning Rules in Social Networks,” *Proceedings of 47th Conference on Decision and Control (CDC)*, Cancun, Mexico, December 2008, pp. 1714–1720.
54. A. Nedić, A. Olshevsky, A. Ozdaglar, J.N. Tsitsiklis, “Distributed Subgradient Methods and Quantization Effects,” *Proceedings of 47th Conference on Decision and Control (CDC)*, Cancun, Mexico, December 2008, pp. 4177–4184.
55. P.A. Bliman, A. Nedić, and A. Ozdaglar, “Rate of Convergence for Consensus with Delays,” *Proceedings of 47th Conference Decision and Control (CDC)*, Cancun, Mexico, December 2008, pp. 4849–4854.

56. S. Sundhar Ram, V.V. Veeravalli, and A. Nedić, “Incremental recursive prediction error algorithm for parameter estimation in sensor networks,” *Proceedings of the 11th International Conference on Information Fusion*, Cologne, Germany, June 30-July 3, 2008, pp. 1–8.
57. A. Nedić and A. Ozdaglar, “Subgradient Methods in Network Resource Allocation: Rate Analysis,” *proceeding of the 42nd Annual Conference on Information Sciences and Systems* (CISS), Princeton, New Jersey, March 2008, pp. 1189-1194.
58. A. Nedić and A. Ozdaglar, “On the Rate of Convergence of Distributed Subgradient Methods for Multi-Agent Optimization,” *Proceedings of 46th Conference on Decision and Control* (CDC), New Orleans, December 2007, pp. 4711–4716.
59. S. Sundhar Ram, V.V. Veeravalli, and A. Nedić, “Incremental Robbins-Monro Gradient Algorithm for Regression in Sensor Networks,” *Proceedings of the 2nd IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing* (CAMPSPAP), St. Thomas, U.S. Virgin Islands, December 2007, pp. 309–312.
60. S.S. Ram, A. Nedić, and V.V. Veeravalli, “Stochastic Incremental Gradient Descent for Estimation in Sensor Networks,” *Proceedings of the Forty-First Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, CA, December 2007, pp. 582–586.

Conference Papers (not peer reviewed)

1. B. Touri and A. Nedić, “Discrete-Time Opinion Dynamics,” *Proceedings of 2011 Asilomar Conference on Signals, Systems, and Computers*, November 6–9, 2011, Pacific Grove, CA, pages 1172–1176.
2. B. Touri, A. Nedić, and S.S. Ram, “Asynchronous stochastic convex optimization over random networks: Error bounds,” *In Proceedings of the IEEE Information Theory and Applications Workshop* (ITA), February 2010.

Earlier Work 1993–2006

Conference Papers

1. A. Nedich, M.K. Schneider, and R.B. Washburn, “Farsighted Sensor Management Strategies for Move/Stop Tracking,” *Proceedings of the Eight International Conference on Information Fusion*, Philadelphia, PA, July 2005.
2. A. Nedić-Geary, and D.P. Bertsekas, “Incremental subgradient methods for nondifferentiable optimization,” *Proceedings of the 38th IEEE Conference on Decision and Control* (CDC), Phoenix, AZ, December 1999, pp. 907–912.

Journal Papers

1. D.P. Bertsekas, V. Borkar, and A. Nedić, “Improved Temporal Difference Methods with Linear Function Approximation,” in *Learning and Approximate Dynamic Programming* by A. Barto, W. Powell, J. Si, (Eds.), IEEE Press, 2004.

2. A. Nedić and D.P. Bertsekas, “Least-Squares Policy Evaluation Algorithms with Linear Function Approximation,” *Journal of Discrete Event Systems*, Vol. 13, pp. 79–110, 2003.
3. A. Nedić and D.P. Bertsekas, “Incremental Subgradient Methods for Nondifferentiable Optimization,” *SIAM Journal on Optimization*, Vol. 12, No. 1, pp. 109–138, 2001.
4. A. Nedić, and D.P. Bertsekas, “Convergence rate of incremental subgradient algorithms,” *Stochastic optimization: algorithms and applications*, Appl. Optim., 54, pp. 223–264, Kluwer Acad. Publ., Dordrecht, 2001.
5. A. Nedić, D.P. Bertsekas, and V.S. Borkar, “Distributed asynchronous incremental subgradient methods,” *Inherently parallel algorithms in feasibility and optimization and their applications*, Stud. Comput. Math., 8, pp. 381–407, North-Holland, Amsterdam, 2001.
6. F.P. Vasiljev, A. Nedić, and M. Jaćimović, “A Regularized Continuous Linearization Method of the Fourth Order,” *Yugosl. J. Oper. Res.*, 7, No. 2, pp. 217–229, 1997.
7. A. Nedić, M. Jaćimović, and A.S. Antipin, “The Continuous Linearization Method of the Fourth Order,” *Yugosl. J. Oper. Res.*, 7, No. 1, pp. 39–47, 1997.
8. F.P. Vasil’ev, A. Nedić, and O. Obradovich, “Continuous Regularized Proximal Minimization Method,” *Numerical Methods in Mathematical Physics, Comput. Math. Model.*, 8, No. 2, pp. 85–94, 1997.
9. A.S. Antipin and A. Nedić, A., “A Second-Order Continuous Linearization Method for Convex Programming Problems,” (Russian) *Vestnik Moskov. Univ., Ser. XV Vychisl. Mat. Kibernet.*, No. 2, 3–12, 1996; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 2, pp. 1–9, 1996.
10. A. Nedić, “An Optimal Control Problem on a Half-line,” *Math. Montisnigri*, 6, pp. 43–55, 1996.
11. F.P. Vasil’ev, A. Nedić, and M. Yachimovich, “A Second-Order Regularized Continuous Linearization Method for Minimization Problems with Inexact Initial Data,” (Russian) *Vestnik Moskov. Univ. Ser. XV Vychisl. Mat. Kibernet.*, No. 3, 1996, 5–12, 81; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 3, pp. 1–7, 1996.
12. A.S. Antipin, A. Nedić, and M. Yachimovich, “A Two-Step Linearization Method for Minimization Problems,” (Russian) *Zh. Vychisl. Mat. i Mat. Fiz.*, 36, No. 4, 1996, 18–25; translation in *Comput. Math. Math. Phys.*, 36, No. 4, pp. 431–437, 1996.
13. F.P. Vasil’ev, A. Nedić, and M. Yachimovich, “A Regularized Continuous Linearization Method for Minimization Problems with Inexact Initial Data,” (Russian) *Zh. Vychisl. Mat. i Mat. Fiz.*, 36, No. 3, 1996, 35–43; translation in *Comput. Math. Math. Phys.*, 36, No. 3, pp. 309–316, 1996.
14. F.P. Vasil’ev, A. Nedić, and M. Yachimovich, “A Four-Step Regularized Linearization Method for Solving Minimization Problems,” (Russian) *Math. Montisnigri*, 6, pp. 109–125, 1996.
15. F.P. Vasil’ev, A. Nedić, and M. Yachimovich, “A Two-Step Regularized Linearization Method for Solving Minimization Problems,” (Russian) *Zh. Vychisl. Mat. i Mat. Fiz.*, 36, No. 5, 1996, 9–19; translation in *Comput. Math. Math. Phys.*, 36, No. 5, pp. 559–567, 1996.

16. F.P. Vasil'ev, T.V. Amochkina, and A. Nedić, "On a Regularized Version of the Two-Step Gradient Projection Method," (Russian) *Vestnik Moskov. Univ. Ser. XV Vychisl. Mat. Kibernet.*, No. 1, 1996, 35–42; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 1, pp. 31–37, 1996.
17. F.P. Vasil'ev, A. Nedić, and M. Yachimovich, "A Third-Order Regularized Continuous Method of Linearization," (Russian) *Differ. Uravn.*, 31, No. 10, 1995, 1622–1627; translation in *Differential Equations*, 31, No. 10, pp. 1582–1588, 1995.
18. A. Nedić and M. Yachimovich, "A Third-Order Continuous Linearization Method for Solving Convex Programming Problems," (Russian) *Differ. Uravn.*, 31, No. 9, 1995, 1483–1487; translation in *Differential Equations*, 31, No. 9, pp. 1437–1441, 1995.
19. F.P. Vasil'ev, and A. Nedić, "A Four-Step Regularized Gradient Projection Method for Solving Minimization Problems with Inexact Initial Data," (Russian) *Math. Montisnigri*, 4, pp. 83–101, 1995.
20. A. Nedić, "A Four-Step Gradient Projection Method for Minimization Problems," (Russian) *Math. Montisnigri*, 4, pp. 55–64, 1995.
21. A.S. Antipin, A. Nedić, and M. Yachimovich, "A Four-Step Linearization Method for Minimization Problems," (Russian) *Math. Montisnigri*, 4, pp. 1–11, 1995.
22. A. Nedić, "The Continuous Projection-Gradient Method of the Fourth Order," *Yugosl. J. Oper. Res.*, 5, No. 1, pp. 27–38, 1995.
23. T.V. Amochkina and A. Nedić, "On a Variant of the Second-Order Continuous Gradient Projection Method and its Discrete Analogue," (Russian) *Vestnik Moskov. Univ. Ser. XV Vychisl. Mat. Kibernet.*, No. 2, 1995, 5–11; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 2, pp. 1–7, 1995.
24. F.P. Vasiljev and A. Nedić, "A Regularized Continuous Projection-Gradient Method of the Fourth Order," *Yugosl. J. Oper. Res.*, 5, No. 2, pp. 195–209, 1995.
25. F.P. Vasil'ev, A. Nedić, and O. Obradović, "A Continuous Version of the Proximal Point Method for the Minimization Problem with Inexactly Defined Initial Data," *Math. Montisnigri*, 5, pp. 123–139, 1995.
26. F.P. Vasil'ev, T.V. Amochkina, and A. Nedić, "On a Regularized Variant of the Second-Order Continuous Gradient Projection Method," (Russian) *Vestnik Moskov. Univ. Ser. XV Vychisl. Mat. Kibernet.*, No. 3, 1995, 39–46; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 3, pp. 33–39, 1995.
27. F.P. Vasil'ev, A. Nedić, and M. Yachimovich, "A Three-Step Regularized Linearization Method for solving minimization problems," (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.*, No. 12, 1994, 25–32; translation in *Russian Math. (Iz. VUZ)*, 38, No. 12, pp. 23–30, 1994.
28. A.S. Antipin, A. Nedić, and M. Yachimovich, "A Three-Step Linearization Method for Minimization Problems," (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.*, No. 1994, 12, 3–7; translation in *Russian Math. (Iz. VUZ)*, 38, No. 12, pp. 1–5, 1994.

29. F.P. Vasil'ev and A. Nedić, "A Regularized Third-Order Continuous Gradient Projection Method," (Russian) *Differentsial'nye Uravneniya*, 30, No. 12, 1994, 2033–2042; translation in *Differential Equations*, 30, No. 12, pp. 1869–1877, 1994.
30. A. Nedić, "A Third-Order Continuous Gradient Projection Method for Minimization Problems," (Russian) *Differentsial'nye Uravneniya*, 30, No. 11, 1994, 1914–1922; translation in *Differential Equations*, 30, No. 11, pp. 1767–1774, 1994.
31. F.P. Vasil'ev and A. Nedić, "A Version of the Regularized Gradient Projection Method," (Russian) *Zh. Vychisl. Mat. i Mat. Fiz.*, 34, No. 4, 1994, 511–519; translation in *Comput. Math. Math. Phys.*, 34, No. 4, pp. 431–439, 1994.
32. A. Nedić, "A Regularized Continuous Gradient Projection Method for Minimization Problems with Inexact Initial Data," (Russian) *Vestnik Moskov. Univ. Ser. XV Vychisl. Mat. Kibernet.*, No. 1, 1994, 3–10; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 1, pp. 1–7, 1994.
33. F.P. Vasil'ev and A. Nedić, "A Regularized Continuous Gradient Projection Method of the Second Order," (Russian) *Vestnik Moskov. Univ. Ser. XV Vychisl. Mat. Kibernet.*, No. 2, 1994, 3–11; translation in *Moscow Univ. Comput. Math. Cybernet.*, No. 2, pp. 1–9, 1994.
34. F.P. Vasil'ev and A. Nedić, "A Three-Step Regularized Gradient Projection Method for Solving Minimization Problems with Inexact Initial Data," (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.*, 1993, No. 12, 35–43; translation in *Russian Math. (Iz. VUZ)*, 37, No. 12, pp. 34–43, 1993.
35. A. Nedić, "A Three-Step Gradient Projection Method for Minimization Problems," (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.*, No. 10, 1993, 32–37; translation in *Russian Math. (Iz. VUZ)*, 37, No. 10, pp. 30–36, 1993.