

Dirk V. Arnold

Faculty of Computer Science
Dalhousie University
Halifax, NS, Canada B3H 4R2

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Employment

Professor	since 2013
Dalhousie University, Faculty of Computer Science	
Associate Professor	2008-2013
Dalhousie University, Faculty of Computer Science	
Assistant Professor	2003-2008
Dalhousie University, Faculty of Computer Science	
Research Associate	1999-2003
Universität Dortmund, Informatik XI	

Education

Dr. rer. nat., Computing Science <i>with distinction</i>	2001
Universität Dortmund, Germany	
M.Sc., Computing Science	1997
Simon Fraser University, Canada	
Diplom, Computing Science <i>with distinction</i>	1995
Universität Dortmund, Germany	

Fellowships and Awards

Best Paper Award, CO Track, Genetic and Evolutionary Computation Conference	2015
Best Paper Award, ES/EP Track, Genetic and Evolutionary Computation Conference	2013
Best Paper Award, International Conference on Parallel Problem Solving from Nature	2012
Best Paper Award, ES/EP Track, Genetic and Evolutionary Computation Conference	2010
Best Paper Award, International Conference on Parallel Problem Solving from Nature	2006
Best Paper Award, ES/EP Track, Genetic and Evolutionary Computation Conference	2003
Doctoral Prize in Computer Science, Universität Dortmund	2002
Simon Fraser University Graduate Fellowship	1998

Simon Fraser University Faculty of Applied Sciences Graduate Fellowship

1996

Courses Taught

At Dalhousie University:

CSCI 1300: Calculus in Computer Science

CSCI 2132: Software Development

CSCI 3161: Introduction to Computer Graphics and Animation

CSCI 3162: Digital Media

CSCI 4113: Design and Analysis of Algorithms II

CSCI 4160: Topics in Computer Graphics

CSCI 4167/6608: Topics in Computer Animation

CSCI 6514: Strategies for Search and Optimization

CSCI 6604: Advanced Computer Graphics

At Simon Fraser University:

CMPT 361: Introduction to Computer Graphics

Publications

Book:

- [1] D. V. Arnold, *Noisy Optimization with Evolution Strategies*, Genetic Algorithms and Evolutionary Computation Series, (Kluwer Academic Publishers, 2002).

Journal Papers:

- [2] P. Spettel, Z. Ba, and D. V. Arnold, "Active sets for explicitly constrained evolutionary optimization", *Evolutionary Computation*, 30(4):531-553, (2022).
- [3] X. Gao, S. Brooks, and D. V. Arnold, "A feature-based quality metric for tone mapped images", *ACM Transactions on Applied Perception*, 14(4), 26:1-26:11, (2017).
- [4] M. Hellwig and D. V. Arnold, "Comparison of constraint handling mechanisms for the $(1, \lambda)$ -ES on a simple constrained problem", *Evolutionary Computation*, 24(1):1-23, (2016).
- [5] X. Gao, S. Brooks, and D. V. Arnold, "Automated parameter tuning for tone mapping using visual saliency", *Computers & Graphics*, 52:171-180, (2015).
- [6] D. V. Arnold, "On the behaviour of the $(1, \lambda)$ -ES for conically constrained linear problems", *Evolutionary Computation*, 22(3):503-523, (2014).

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- [7] D. V. Arnold, “Resampling versus repair in evolution strategies applied to a constrained linear problem”, *Evolutionary Computation*, 21(3):389-411, (2013).
- [8] G. LeBlanc, A. Shouldice, D. V. Arnold, and S. Brooks, “Multi-band Fourier synthesis of ocean waves”, *Journal of Graphics Tools*, 16(2):57-70, (2012).
- [9] D. V. Arnold and H.-G. Beyer, “On the behaviour of evolution strategies optimising cigar functions”, *Evolutionary Computation*, 18(4):661-682, (2010).
- [10] T. Burrell, D. Arnold, and S. Brooks, “Advection river textures”, *Computer Animation and Virtual Worlds*, 20(2-3):163-173, (2009).
- [11] D. V. Arnold and H.-G. Beyer, “Evolution strategies with cumulative step length adaptation on the noisy parabolic ridge”, *Natural Computing*, 7(4):555-587, (2008).
- [12] D. V. Arnold and A. MacLeod, “Step length adaptation on ridge functions”, *Evolutionary Computation*, 16(2):151-184, (2008).
- [13] D. V. Arnold and R. Salomon, “Evolutionary gradient search revisited”, *IEEE Transactions on Evolutionary Computation*, 11(4):480-495, (2007).
- [14] D. V. Arnold, “Weighted multirecombination evolution strategies”, *Theoretical Computer Science*, 361(1):18-37, (2006).
- [15] D. V. Arnold and H.-G. Beyer, “Optimum tracking with evolution strategies”, *Evolutionary Computation*, 14(3):291-308, (2006).
- [16] D. V. Arnold and H.-G. Beyer, “A general noise model and its effects on evolution strategy performance”, *IEEE Transactions on Evolutionary Computation*, 10(4):380-391, (2006).
- [17] D. V. Arnold and H.-G. Beyer, “Expected sample moments of concomitants of selected order statistics”, *Statistics and Computing*, 15(3):241-250, (2005).
- [18] H.-G. Beyer, D. V. Arnold, and S. Meyer-Nieberg, “A new approach for predicting the final outcome of evolution strategy optimization under noise”, *Genetic Programming and Evolvable Machines*, 6(1):7-24, (2005).
- [19] D. V. Arnold and H.-G. Beyer, “Performance analysis of evolutionary optimization with cumulative step length adaptation”, *IEEE Transactions on Automatic Control*, 49(4):617-622, (2004).
- [20] D. V. Arnold and H.-G. Beyer, “On the benefits of populations for noisy optimization”, *Evolutionary Computation*, 11(2):111-127, (2003).
- [21] D. V. Arnold and H.-G. Beyer, “A comparison of evolution strategies with other direct search methods in the presence of noise”, *Computational Optimization and Applications*, 24(1):135-159, (2003).
- [22] H.-G. Beyer and D. V. Arnold, “Qualms regarding the optimality of cumulative path length control in CSA/CMA-evolution strategies”, *Evolutionary Computation*, 11(1):19-28, (2003).

- [23] D. V. Arnold and H.-G. Beyer, “Performance analysis of evolution strategies with multi-recombination in high-dimensional \mathbb{R}^N -search spaces disturbed by noise”, *Theoretical Computer Science*, 289(1): 629-647, (2002).
- [24] D. V. Arnold and H.-G. Beyer, “Local performance of the (1 + 1)-ES in a noisy environment”, *IEEE Transactions on Evolutionary Computation*, 6(1):30-41, (2002).
- [25] R. F. Hadley, A. Rotaru-Varga, D. V. Arnold, and V. C. Cardei, “Syntactic systematicity arising from semantic predictions in a Hebbian-competitive network”, *Connection Science*, 13(1):73-94, (2001).
- [26] D. V. Arnold, “Information-theoretic analysis of phase transitions”, *Complex Systems*, 10(2):143-155, (1996).

Book Chapters:

- [27] N. Hansen, D. V. Arnold, and A. Auger, “Evolution Strategies”, in J. Kacprzyk and W. Pedrycz (eds.), *Handbook of Computational Intelligence*, pp. 871-898, (Springer Verlag, 2015).
- [28] J. Porter and D. V. Arnold, “Analyzing the behaviour of multi-recombinative evolution strategies applied to a conically constrained problem”, in R. Datta and K. Deb (eds.), *Evolutionary Constrained Optimization*, pp. 181-204, (Springer Verlag, 2015).
- [29] R. Salomon and D. V. Arnold, “The evolutionary-gradient-search procedure in theory and practice”, in R. Chiong (ed.), *Nature-Inspired Algorithms for Optimisation*, pp. 77-101, (Springer Verlag, 2009).
- [30] D. V. Arnold, “Evolution strategies in noisy environments — A survey of existing work”, in L. Kallel et al. (eds.), *Theoretical Aspects of Evolutionary Computing*, pp. 239-249, (Springer Verlag, 2001).
- [31] H.-G. Beyer and D. V. Arnold, “Theory of evolution strategies — A tutorial”, in L. Kallel et al. (eds.), *Theoretical Aspects of Evolutionary Computing*, pp. 109-133, (Springer Verlag, 2001).

Refereed Conference and Workshop Papers:

- [32] A. Abbasnejad and D. V. Arnold, “Adaptive function value warping for surrogate model assisted evolutionary optimization”, in G. Rudolph et al., *Parallel Problem Solving from Nature — PPSN XVII*, pp. 76-89, (Springer Verlag, 2022).
- [33] L. Toal and D. V. Arnold, “Simple surrogate model assisted optimization with covariance matrix adaptation”, in T. Bäck et al., *Parallel Problem Solving from Nature — PPSN XVI*, pp. 1-14, (Springer Verlag, 2020).
- [34] J. Yang and D. V. Arnold, “A Surrogate Model Assisted (1+1)-ES with Increased Exploitation of the Model”, in *Proceedings of the 2019 Genetic and Evolutionary Computation Conference — GECCO 2019*, pp. 727-735, (ACM Press, 2019).
- [35] A. Kayhani and D. V. Arnold, “Design of surrogate model assisted (1 + 1)-ES”, in A. Auger et al., *Parallel Problem Solving from Nature — PPSN XV*, pp. 16-28, (Springer Verlag, 2018).
- [36] X. Gao, J. Porter, S. Brooks, and D. V. Arnold, “Evolutionary optimization of tone mapped image quality index”, in *Artificial Evolution*, pp. 176-188, (Springer Verlag, 2017).

- [37] D. V. Arnold, “Reconsidering constraint release for active-set evolution strategies”, in *Proceedings of the 2017 Genetic and Evolutionary Computation Conference — GECCO 2017*, pp. 665-672, (ACM Press, 2017).
- [38] D. V. Arnold, “An active-set evolution strategy for optimization with known constraints”, in J. Handl et al. (eds.), *Parallel Problem Solving from Nature — PPSN XIV*, pp. 192-202, (Springer Verlag, 2016).
- [39] A. Lu and D. V. Arnold, “An evolutionary algorithm for depth image based camera pose estimation in indoor environments”, in *Proceedings of the 2016 IEEE World Congress on Computational Intelligence*, pp. 3871-3878, (IEEE Press, 2016).
- [40] X. Gao, S. Brooks, D. V. Arnold, “Automatic blended tone mapping through evolutionary optimization”, in *Proceedings of the 2016 IEEE World Congress on Computational Intelligence*, pp. 3855-3862, (IEEE Press, 2016).
- [41] D. V. Arnold and J. Porter, “Towards an augmented Lagrangian constraint handling approach for the $(1 + 1)$ -ES”, in *Proceedings of the 2015 Genetic and Evolutionary Computation Conference — GECCO 2015*, pp. 249-256, (ACM Press, 2015).
- [42] X. Gao, S. Brooks, and D. V. Arnold, “Saliency-based parameter tuning for tone mapping”, in *Proceedings of the 11th European Conference on Visual Media Production — CVMP 2014*, pp. 5:1-5:10, (ACM Press, 2014).
- [43] D. V. Arnold, “On the use of evolution strategies for optimization on spherical manifolds”, in T. Bartz-Beielstein et al. (eds.), *Parallel Problem Solving from Nature — PPSN XIII*, pp. 882-891, (Springer Verlag, 2014).
- [44] S. Nourashrafeddin, E. Milios, and D. V. Arnold, “An ensemble approach for text document clustering using Wikipedia concepts”, in *Proceedings of the 14th ACM Symposium on Document Engineering — DocEng 2014*, pp. 107-116, (ACM Press, 2014).
- [45] K. Fraser, D. V. Arnold, and G. Dellaire, “Projected Barzilai-Borwein method with infeasible iterates for nonnegative least-squares image deblurring”, in *Canadian Conference on Computer and Robot Vision — CRV 2014*, pp. 189-194, (IEEE Press, 2014).
- [46] S. Nourashrafeddin, E. Milios, and D. V. Arnold, “Interactive text document clustering using feature labeling”, in *Proceedings of the 13th ACM Symposium on Document Engineering — DocEng 2013*, pp. 61-70, (ACM Press, 2013).
- [47] X. Gao, S. Brooks, and D. V. Arnold, “Virtual photograph based saliency analysis of high dynamic range images”, in *Proceedings of the 9th International Symposium on Computational Aesthetics in Graphics, Visualization, and Imaging — CAe 2013*, pp. 87-92, (ACM Press, 2013).
- [48] D. V. Arnold, “On the behaviour of the $(1, \lambda)$ -ES for a conically constrained problem”, in *Proceedings of the 2013 Genetic and Evolutionary Computation Conference — GECCO 2013*, pp. 423-430, (ACM Press, 2013).

- [49] S. Nourashrafeddin, E. Milios, and D. V. Arnold, “An evolutionary algorithm for feature selective double clustering of text documents”, in *Proceedings of the 2013 IEEE Congress on Evolutionary Computation*, pp. 446-453, (IEEE Press, 2013).
- [50] J. Porter and D. V. Arnold, “An evolutionary spline fitting algorithm for identifying filamentous cyanobacteria”, in *ACM Symposium on Applied Computing — SAC 2013*, pp. 40-45, (ACM Press, 2013).
- [51] D. V. Arnold, “On the behaviour of the $(1, \lambda)$ - σ SA-ES for a constrained linear problem”, in C. A. Coello Coello et al. (eds.), *Parallel Problem Solving from Nature — PPSN XII*, pp. 82-91, (Springer Verlag, 2012).
- [52] D. V. Arnold and N. Hansen, “A $(1 + 1)$ -CMA-ES for constrained optimisation”, in *Proceedings of the 2012 Genetic and Evolutionary Computation Conference — GECCO 2012*, pp. 297-304, (ACM Press, 2012).
- [53] D. V. Arnold, “Analysis of a repair mechanism for the $(1, \lambda)$ -ES applied to a simple constrained problem”, in *Proceedings of the 2011 Genetic and Evolutionary Computation Conference — GECCO 2011*, pp. 853-860, (ACM Press, 2011).
- [54] D. V. Arnold, “On the behaviour of the $(1, \lambda)$ -ES for a simple constrained problem”, in *Foundations of Genetic Algorithms — FOGA 2011*, pp. 15-24, (ACM Press, 2011).
- [55] D. Brockhoff, A. Auger, N. Hansen, D. V. Arnold, and T. Hohm, “Mirrored sampling and sequential selection for evolution strategies”, in R. Schaefer et al. (eds.), *Parallel Problem Solving from Nature — PPSN XI*, pp. 11-21, (Springer Verlag, 2010).
- [56] D. V. Arnold and N. Hansen, “Active covariance matrix adaptation for the $(1 + 1)$ -CMA-ES”, in J. Branke et al. (eds.), in *Proceedings of the 2010 Genetic and Evolutionary Computation Conference — GECCO 2010*, pp. 385-392, (ACM Press, 2010).
- [57] D. V. Arnold, H.-G. Beyer, and A. Melkozerov, “On the behaviour of weighted multi-recombination evolution strategies optimising noisy cigar functions”, in *Proceedings of the 2009 Genetic and Evolutionary Computation Conference — GECCO 2009*, pp. 483-490, (ACM Press, 2009).
- [58] D. V. Arnold and A. S. Castellarin, “A novel approach to adaptive isolation in evolution strategies”, in *Proceedings of the 2009 Genetic and Evolutionary Computation Conference — GECCO 2009*, pp. 491-498, (ACM Press, 2009).
- [59] S. B. Chisholm, D. V. Arnold, and S. Brooks, “Tone mapping by interactive evolution”, in *Proceedings of the 2009 Genetic and Evolutionary Computation Conference — GECCO 2009*, pp. 515-522, (ACM Press, 2009).
- [60] D. V. Arnold and D. Brauer, “On the behaviour of the $(1 + 1)$ -ES for a simple constrained problem”, in G. Rudolph et al. (eds.), *Parallel Problem Solving from Nature — PPSN X*, pp. 1-10, (Springer Verlag, 2008).
- [61] D. V. Arnold and D. C. S. Van Wart, “Cumulative step length adaptation for evolution strategies using negative recombination weights”, in M. Giacobini et al. (eds.), *EvoWorkshops 2008*, pp. 545-554, (Springer Verlag, 2008).

- [62] D. V. Arnold, “On the use of evolution strategies for optimising certain positive definite quadratic forms”, in *Proceedings of the 2007 Genetic and Evolutionary Computation Conference — GECCO 2007*, pp. 634-641, (ACM Press, 2007).
- [63] D. V. Arnold, “Cumulative step length adaptation on ridge functions”, in T. P. Runarsson et al. (eds.), *Parallel Problem Solving from Nature — PPSN IX*, pp. 11-20, (Springer Verlag, 2006).
- [64] D. V. Arnold and A. MacLeod, “Hierarchically organised evolution strategies on the parabolic ridge”, in *Proceedings of the 2006 Genetic and Evolutionary Computation Conference — GECCO 2006*, pp. 437-444, (ACM Press, 2006).
- [65] D. V. Arnold and D. MacDonald, “Weighted recombination evolution strategies on the parabolic ridge”, *Proceedings of the 2006 IEEE World Congress on Computational Intelligence*, pp. 411-418, (IEEE Press, 2006).
- [66] G. A. Jastrebski and D. V. Arnold, “Improving evolution strategies through active covariance matrix adaptation”, in *Proceedings of the 2006 IEEE World Congress on Computational Intelligence*, pp. 9719-9726, (IEEE Press, 2006).
- [67] D. V. Arnold, “Evolution strategies with adaptively rescaled mutation vectors”, in *Proceedings of the 2005 IEEE Congress on Evolutionary Computation*, pp. 2592-2599, (IEEE Press, 2005).
- [68] D. V. Arnold, “Optimal weighted recombination”, in A. H. Wright et al. (eds.), *Foundations of Genetic Algorithms 8*, pp. 215-237, (Springer Verlag, 2005).
- [69] D. V. Arnold, “An analysis of evolutionary gradient search”, in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*, pp. 47-54, (IEEE Press, 2004).
- [70] H.-G. Beyer and D. V. Arnold, “The steady state behavior of $(\mu/\mu_I, \lambda)$ -ES on ellipsoidal fitness models disturbed by noise”, in E. Cantú-Paz et al. (eds.), *Proceedings of the 2003 Genetic and Evolutionary Computation Conference — GECCO 2003*, pp. 525-536, (Springer Verlag, 2003).
- [71] D. V. Arnold and H.-G. Beyer, “On the effects of outliers on evolutionary optimization”, in J. Liu et al. (eds.), *Intelligent Data Engineering and Automated Learning — IDEAL 2003*, pp. 151-160, (Springer Verlag, 2003).
- [72] D. V. Arnold and H.-G. Beyer, “Random dynamics optimum tracking with evolution strategies”, in J. J. Merelo et al. (eds.), *Parallel Problem Solving from Nature — PPSN VII*, pp. 3-12, (Springer Verlag, 2002).
- [73] D. V. Arnold and H.-G. Beyer, “Investigation of the (μ, λ) -ES in the presence of noise”, *Proceedings of the 2001 IEEE Congress on Evolutionary Computation*, pp. 332-339, (IEEE Press, 2001).
- [74] S. Markon, D. V. Arnold, T. Bäck, T. Beielstein, and H.-G. Beyer, “Thresholding — A selection operator for noisy ES”, *Proceedings of the 2001 IEEE Congress on Evolutionary Computation*, pp. 465-472, (IEEE Press, 2001).
- [75] D. V. Arnold and H.-G. Beyer, “Local performance of the $(\mu/\mu_I, \lambda)$ -ES in a noisy environment”, in W. N. Martin and W. M. Spears (eds.), *Foundations of Genetic Algorithms 6*, pp. 127-141, (Morgan Kaufmann Publishers, 2001).

- [76] D. V. Arnold and H.-G. Beyer, “Efficiency and self-adaptation of the $(\mu/\mu_I, \lambda)$ -ES in a noisy environment”, in M. Schoenauer et al. (eds.), *Parallel Problem Solving from Nature — PPSN VI*, pp. 39-48, (Springer Verlag, 2000).
- [77] H.-G. Beyer and D. V. Arnold, “Fitness noise and localization errors of the optimum in general quadratic fitness models”, in W. Banzhaf et al. (eds.), *Proceedings of the 1999 Genetic and Evolutionary Computation Conference — GECCO 1999*, pp. 817-824, (Morgan Kaufmann Publishers, 1999).
- [78] R. F. Hadley, D. Arnold, and V. Cardei, “Syntactic systematicity arising from semantic predictions in a Hebbian-competitive network”, in M. A. Gernsbacher and S. J. Derry (eds.), *Proceedings of the Twentieth Annual Conference of the Cognitive Science Society*, (Lawrence Erlbaum Publishers, 1998).

Professional Activities

Editorial Activity:

Area Editor	since 2019
<i>ACM Transactions on Evolutionary Learning and Optimization</i>	
Associate Editor	since 2010
<i>Evolutionary Computation</i> (MIT Press)	
Member of the Editorial Board	2013-2021
<i>Computational Optimization and Applications</i> (Springer Verlag)	
Associate Editor	2007-2016
<i>IEEE Transactions on Evolutionary Computation</i> (IEEE Press)	
Member of the Editorial Board	2007-2014
<i>Journal of Memetic Computing</i> (Springer Verlag)	
Member of the Editorial Board	2010-2013
<i>Computational Intelligence</i> (Wiley)	

Conference, Workshop, and Competition Organization:

Program Co-Chair	2019
Workshop on Foundations of Genetic Algorithms — FOGA 2019 Potsdam, Germany	
ENUM Track Co-Chair	2019
Genetic and Evolutionary Computation Conference — GECCO 2019 Prague, Czech Republic	
General Chair	2014
Genetic and Evolutionary Computation Conference — GECCO 2014 Vancouver, BC	
Technical Co-Chair	2013
IEEE Congress on Evolutionary Computation — CEC 2013 Cancún, Mexico	

ES/EP Track Chair Genetic and Evolutionary Computation Conference — GECCO 2010 Portland, OR	2010
Coorganizer CAIAC/Precarn Intelligent Systems Challenge	2009
Coorganizer Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2008
ES/EP Track Chair Genetic and Evolutionary Computation Conference — GECCO 2006 Seattle, WA	2006
Coorganizer Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2006
ES/EP Track Chair Genetic and Evolutionary Computation Conference — GECCO 2005 Washington, DC	2005

Tutorials, Invited Talks, and Participation:

PPSN Workshop on 25 Years of LeadingOnes (and Other Great Ideas) Dortmund, Germany	2022
Dagstuhl Seminar on the Theory of Randomized Search Heuristics Schloss Dagstuhl, Germany	2017
University of Copenhagen, The Image Group Copenhagen, Denmark	2015
Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2015
International Conference on Continuous Optimization Lisbon, Portugal	2013
Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2013
World Congress on Computational Intelligence (tutorial) Barcelona, Spain	2010
Acadia University, Jodrey School of Computer Science Wolfville, Nova Scotia	2008
IEEE Symposium on Foundations of Computational Intelligence (invited tutorial) Honolulu, Hawaii	2007
Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2004
Ruhr-Universität Bochum, Institut für Neuroinformatik Bochum, Germany	2003

Helsinki University of Technology, Lab for Theoretical Computer Science Helsinki, Finland	2002
University of Turku, Workshop on “Evolution, Computation, and Landscapes” Turku, Finland	2002
Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2002
Seoul National University, Biointelligence Lab Seoul, South Korea	2001
Dagstuhl Seminar on the Theory of Evolutionary Algorithms Schloss Dagstuhl, Germany	2000
EvoNet Summer School on Theoretical Aspects of Evolutionary Computing Antwerp, Belgium	1999

Reviewing:

Algorithmica (Springer Verlag)
Applied Mathematics and Computer Science
Applied Soft Computing (Elsevier)
Artificial Intelligence (Elsevier)
Computational Optimization and Applications (Kluwer Academic Publishers)
European Journal of Operational Research (Elsevier)
Evolutionary Computation (MIT Press)
Genetic Programming and Evolvable Machines (Kluwer Academic Publishers)
IEEE Computational Intelligence Magazine (IEEE Press)
IEEE Transactions on Control Systems Technology (IEEE Press)
IEEE Transactions on Cybernetics (IEEE Press)
IEEE Transactions on Evolutionary Computation (IEEE Press)
IEEE Transactions on Systems, Man and Cybernetics (IEEE Press)
Information Sciences (Elsevier)
Journal of Global Optimization (Springer Verlag)
Journal of Mathematical Modelling and Algorithms (Kluwer Academic Publishers)
Journal of Optimization Theory and Applications (Springer Verlag)
Journal of System Architecture (Elsevier)
Machine Learning (Springer Verlag)
Memetic Computing (Springer Verlag)
Neural Computing and Applications (Springer Verlag)

Optimization and Engineering (Springer Verlag)

Pattern Recognition (Elsevier)

Soft Computing (Springer Verlag)

Statistics and Computing (Springer Verlag)

Theoretical Computer Science (Elsevier)

ASME Computers and Information in Engineering Conference — CIE (2005)

Asia-Pacific Conference on Knowledge Discovery and Data Mining — PAKDD (2006)

Canadian Conference on Artificial Intelligence — AI (2010, 2011, 2012, 2014, 2015, 2016)

European Conference on Artificial Life — ECAL (2013)

European Workshop on EAs in Stochastic and Dynamic Environments — EvoSTOC (2005, 2006, 2007, 2008, 2009, 2010, 2011)

Foundations of Genetic Algorithms Workshop — FOGA (2002, 2009, 2011, 2013, 2017)

Genetic and Evolutionary Computation Conference — GECCO (2000, 2002, 2003, 2007, 2008, 2009, 2011, 2012, 2013, 2015, 2016)

IEEE Congress on Evolutionary Computation — CEC (2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016)

IEEE Symposium on Foundations of Computational Intelligence — IEEE FOCI (2007, 2015, 2016)

International Conference on Evolutionary Computation — ICEC (2009)

International Workshop on Hybrid Metaheuristics — HM (2007)

Learning and Intelligent Optimization Conference — LION (2013, 2014)

Parallel Problem Solving from Nature — PPSN (2002, 2008, 2010, 2012, 2014, 2016)