

# Andrew B Philpott

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,418  
citations

270111

25  
h-index

242451

47  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1676  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Risked Equilibrium. <i>Operations Research</i> , 2022, 70, 1933-1952.	1.2	5
2	Improving Sample Average Approximation Using Distributional Robustness. <i>INFORMS Journal on Optimization</i> , 2022, 4, 90-124.	0.9	4
3	Introduction: the mathematics of energy systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190425.	1.6	2
4	MIDAS: A mixed integer dynamic approximation scheme. <i>Mathematical Programming</i> , 2020, 181, 19-50.	1.6	8
5	Forward Commodity Trading with Private Information. <i>Operations Research</i> , 2019, 67, 58-71.	1.2	6
6	The New Zealand Electricity Market: Challenges of a Renewable Energy System. <i>IEEE Power and Energy Magazine</i> , 2019, 17, 43-52.	1.6	7
7	A multi-stage stochastic optimization model of a pastoral dairy farm. <i>European Journal of Operational Research</i> , 2019, 274, 1077-1089.	3.5	14
8	Market power and forward prices. <i>Economics Letters</i> , 2018, 166, 6-9.	0.9	8
9	Payment mechanisms for electricity markets with uncertain supply. <i>Operations Research Letters</i> , 2018, 46, 116-121.	0.5	6
10	On risk averse competitive equilibrium. <i>Operations Research Letters</i> , 2018, 46, 19-26.	0.5	25
11	Distributionally robust SDDP. <i>Computational Management Science</i> , 2018, 15, 431-454.	0.8	24
12	On supply-function equilibria in radial transmission networks. <i>European Journal of Operational Research</i> , 2018, 271, 985-1000.	3.5	4
13	Investment and generation optimization in electricity systems with intermittent supply. <i>Energy Systems</i> , 2017, 8, 127-147.	1.8	12
14	Supply Function Equilibrium with Taxed Benefits. <i>Operations Research</i> , 2017, 65, 1-18.	1.2	7
15	Editorial for the special issue: "Optimization in energy". <i>Energy Systems</i> , 2017, 8, 3-6.	1.8	1
16	Equilibrium, uncertainty and risk in hydro-thermal electricity systems. <i>Mathematical Programming</i> , 2016, 157, 483-513.	1.6	58
17	Improving the performance of Stochastic Dual Dynamic Programming. <i>Journal of Computational and Applied Mathematics</i> , 2015, 290, 196-208.	1.1	63
18	On the Convergence of Decomposition Methods for Multistage Stochastic Convex Programs. <i>Mathematics of Operations Research</i> , 2015, 40, 130-145.	0.8	70

#	ARTICLE	IF	CITATIONS
19	Optimization of demand response through peak shaving. <i>Operations Research Letters</i> , 2014, 42, 97-101.	0.5	10
20	On risk attitude and optimal yacht racing tactics. <i>Ocean Engineering</i> , 2014, 90, 149-154.	1.9	17
21	Multi-objective optimisation of positively homogeneous functions and an application in radiation therapy. <i>Operations Research Letters</i> , 2014, 42, 268-272.	0.5	16
22	Modelling network constrained economic dispatch problems. <i>Optimization and Engineering</i> , 2013, 14, 417-430.	1.3	77
23	Challenges and opportunities for optimization in electricity systems. <i>Mathematical Programming</i> , 2013, 140, 235-237.	1.6	3
24	On Solving Multistage Stochastic Programs with Coherent Risk Measures. <i>Operations Research</i> , 2013, 61, 957-970.	1.2	78
25	Mixed strategies in discriminatory divisible-good auctions. <i>RAND Journal of Economics</i> , 2013, 44, 1-32.	1.3	27
26	An Electricity Procurement Model with Energy and Peak Charges. <i>World Scientific Series in Finance</i> , 2013, , 399-419.	0.1	0
27	On Cutting Plane Algorithms and Dynamic Programming for Hydroelectricity Generation. <i>Profiles in Operations Research</i> , 2013, , 105-127.	0.3	4
28	Investment in electricity networks with transmission switching. <i>European Journal of Operational Research</i> , 2012, 222, 377-385.	3.5	35
29	Dynamic sampling algorithms for multi-stage stochastic programs with risk aversion. <i>European Journal of Operational Research</i> , 2012, 218, 470-483.	3.5	148
30	A multistage stochastic programming model for the New Zealand dairy industry. <i>International Journal of Production Economics</i> , 2011, 134, 289-299.	5.1	55
31	Production inefficiency of electricity markets with hydro generation. <i>Utilities Policy</i> , 2010, 18, 174-185.	2.1	24
32	A Single-Settlement, Energy-Only Electric Power Market for Unpredictable and Intermittent Participants. <i>Operations Research</i> , 2010, 58, 1210-1219.	1.2	121
33	Norske Skog Improves Global Profitability Using Operations Research. <i>Interfaces</i> , 2010, 40, 58-70.	1.6	6
34	Welfare Effects of Expansions in Equilibrium Models of an Electricity Market With Fuel Network. <i>IEEE Transactions on Power Systems</i> , 2010, 25, 1337-1349.	4.6	12
35	Dantzig-Wolfe Decomposition for Solving Multistage Stochastic Capacity-Planning Problems. <i>Operations Research</i> , 2009, 57, 1271-1286.	1.2	67
36	On the convergence of stochastic dual dynamic programming and related methods. <i>Operations Research Letters</i> , 2008, 36, 450-455.	0.5	163

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37	A Stochastic Programming Approach to Electric Energy Procurement for Large Consumers. IEEE Transactions on Power Systems, 2007, 22, 744-754.	4.6	179
38	Modelling the effects of interconnection between electricity markets subject to uncertainty. Mathematical Methods of Operations Research, 2007, 65, 1-26.	0.4	4
39	Optimizing Demand-Side Bids in Day-Ahead Electricity Markets. IEEE Transactions on Power Systems, 2006, 21, 488-498.	4.6	93
40	Nonparametric Estimation of Market Distribution Functions in Electricity Pool Markets. Mathematics of Operations Research, 2006, 31, 621-636.	0.8	3
41	Protecting local access telecommunications networks: Toward a minimum-cost solution. Telecommunication Systems, 2006, 33, 353-376.	1.6	1
42	Unit commitment in electricity pool markets. Mathematical Programming, 2006, 108, 313-337.	1.6	24
43	An electricity market game between consumers, retailers and network operators. Decision Support Systems, 2005, 40, 427-438.	3.5	22
44	On financial transmission rights and market power. Decision Support Systems, 2005, 40, 507-515.	3.5	11
45	Hydroelectric reservoir optimization in a pool market. Mathematical Programming, 2005, 103, 445-461.	1.6	55
46	On the Convergence of Sampling-Based Decomposition Algorithms for Multistage Stochastic Programs. Journal of Optimization Theory and Applications, 2005, 125, 349-366.	0.8	32
47	17. Stochastic Optimization and Yacht Racing. , 2005, , 315-336.		11
48	A Simulation Model for Predicting Yacht Match Race Outcomes. Operations Research, 2004, 52, 1-16.	1.2	36
49	Financial transmission rights in convex pool markets. Operations Research Letters, 2004, 32, 109-113.	0.5	26
50	Estimation of Electricity Market Distribution Functions. Annals of Operations Research, 2003, 121, 21-32.	2.6	13
51	Offer Stack Optimization in Electricity Pool Markets. Operations Research, 2003, 51, 397-408.	1.2	26
52	Using Supply Functions for Offering Generation into an Electricity Market. Operations Research, 2002, 50, 477-489.	1.2	96
53	Optimal Offer Construction in Electricity Markets. Mathematics of Operations Research, 2002, 27, 82-100.	0.8	114
54	Supply Chain Optimisation in the Paper Industry. Annals of Operations Research, 2001, 108, 225-237.	2.6	34

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55	Hydro-electric unit commitment subject to uncertain demand. <i>European Journal of Operational Research</i> , 2000, 125, 410-424.	3.5	52
56	Inexact Cuts in Benders Decomposition. <i>SIAM Journal on Optimization</i> , 2000, 10, 643-657.	1.2	70
57	An adaptive discretization algorithm for a class of continuous network programs. <i>Networks</i> , 1995, 26, 1-11.	1.6	24
58	Continuous-Time Shortest Path Problems and Linear Programming. <i>SIAM Journal on Control and Optimization</i> , 1994, 32, 538-552.	1.1	12
59	On the Solutions of a Class of Continuous Linear Programs. <i>SIAM Journal on Control and Optimization</i> , 1994, 32, 1289-1296.	1.1	25
60	Yacht velocity prediction using mathematical programming. <i>European Journal of Operational Research</i> , 1993, 67, 13-24.	3.5	20
61	A finite-time algorithm for shortest path problems with time-varying costs. <i>Applied Mathematics Letters</i> , 1993, 6, 91-94.	1.5	16
62	Extreme Points for Linear Optimal Control Problems with Diagonal Structure. <i>SIAM Journal on Control and Optimization</i> , 1992, 30, 1385-1394.	1.1	0
63	Continuous-time shortest path problems with stopping and starting costs. <i>Applied Mathematics Letters</i> , 1992, 5, 63-66.	1.5	11
64	On affine scaling and semi-infinite programming. <i>Mathematical Programming</i> , 1992, 56, 361-364.	1.6	14
65	Continuous-Time Flows in Networks. <i>Mathematics of Operations Research</i> , 1990, 15, 640-661.	0.8	51
66	An interior point algorithm for semi-infinite linear programming. <i>Mathematical Programming</i> , 1989, 43, 257-276.	1.6	38
67	A continuous-time network simplex algorithm. <i>Networks</i> , 1989, 19, 395-425.	1.6	45
68	On the Performance of Karmarkar's Algorithm. <i>Journal of the Operational Research Society</i> , 1988, 39, 257-270.	2.1	5
69	Duality and an Algorithm for a Class of Continuous Transportation Problems. <i>Mathematics of Operations Research</i> , 1984, 9, 222-231.	0.8	19
70	A Class of Continuous Network Flow Problems. <i>Mathematics of Operations Research</i> , 1982, 7, 501-514.	0.8	49