Scott A Burns

List of Publications by Citations

32 papers	912 citations	12 h-index	30 g-index
33 ext. papers	1,009 ext. citations	2.9 avg, IF	3.85 L-index

#	Paper	IF	Citations
32	Using Genetic Algorithms to Solve Construction Time-Cost Trade-Off Problems. *Journal of Computing in Civil Engineering*, **1997**, 11, 184-189	5	251
31	Stochastic Construction Time-Cost Trade-Off Analysis. *Journal of Computing in Civil Engineering*, **2000**, 14, 117-126	5	100
30	Construction Time-Cost Trade-Off Analysis Using LP/IP Hybrid Method. *Journal of Construction Engineering and Management - ASCE*, **1995**, 121, 446-454	4.2	92
29	Multiobjective optimization for performance-based seismic design of steel moment frame structures. *Earthquake Engineering and Structural Dynamics*, **2005**, 34, 289-306	4	82
28	Optimal seismic design of steel frame buildings based on life cycle cost considerations. *Earthquake Engineering and Structural Dynamics*, **2003**, 32, 1313-1332	4	78
27	Life cycle cost oriented seismic design optimization of steel moment frame structures with risk-taking preference. *Engineering Structures*, **2004**, 26, 1407-1421	4.7	72
26	The LP/IP hybrid method for construction time-cost trade-off analysis. *Construction Management and Economics*, **1996**, 14, 265-276	3	67
25	Genetic Algorithm Based Construction-Conscious Minimum Weight Design of Seismic Steel Moment-Resisting Frames. *Journal of Structural Engineering*, **2006**, 132, 50-58	3	24
24	Chaotic complex dynamics and Newton's method. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1987**, 119, 441-446	2.3	22
23	Fully Stressed Design of Frame Structures and Multiple Load Paths. *Journal of Structural Engineering*, **2002**, 128, 806-814	3	16
22	Generalized geometric programming with many equality constraints. *International Journal for Numerical Methods in Engineering*, **1987**, 24, 725-741	2.4	14
21	The munsell color system in fundamental color space. *Color Research and Application*, **1990**, 15, 29-51	1.3	12
20	The monomial method: Extensions, variations, and performance issues. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 2093-2107	2.4	11
19	Multiple metamers: Preserving color matches under diverse illuminants. *Color Research and Application*, **1989**, 14, 16-22	1.3	10
18	Multiple fully stressed designs of steel frame structures with semi-rigid connections. *International Journal for Numerical Methods in Engineering*, **2003**, 58, 821-838	2.4	9
17	The monomial method and asymptotic properties of algebraic systems. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 3939-3955	2.4	9
16	The newton transform: An operational method for constructing integral of dynamical systems. *Physica D: Nonlinear Phenomena*, **1989**, 37, 83-90	3.3	9

15	Mathematical Programming in Structural Design. *Journal of Structural Engineering*, **1983**, 109, 1669-1679	3	7
14	Fully stressed frame structures unobtainable by conventional design methodology. *International Journal for Numerical Methods in Engineering*, **2001**, 52, 1397	2.4	6
13	Chromatic adaptation transform by spectral reconstruction. *Color Research and Application*, **2019**, 44, 682-693	1.3	5
12	Numerical methods for smoothest reflectance reconstruction. *Color Research and Application*, **2020**, 45, 8-21	1.3	4
11	Ecology models and newton vector fields. *Mathematical Biosciences*, **1988**, 90, 221-232	3.9	3
10	An alternative linearization technique. *Engineering Computations*, **1997**, 14, 735-745	1.4	2
9	A move coordination method for alternative loads in structural optimization. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 1041-1060	2.4	2
8	Design of Civil Engineering Frame Structures Using a Monomial/Newton Hybrid Method. *Annals of Operations Research*, **2001**, 105, 21-35	3.2	1
7	Solving systems of non-linear equations with both free and positive variables. *International Journal for Numerical Methods in Engineering*, **1999**, 46, 1987-1996	2.4	1
6	Multiple Fully Stressed Structural Designs and the Stress Ratio Method. *Computer-Aided Civil and Infrastructure Engineering*, **1995**, 10, 63-76	8.4	1
5	Phase-space representation of iterative design processes. *International Journal for Numerical Methods in Engineering*, **1991**, 32, 327-346	2.4	1
4	Closure to "Mathematical Programming in Structural Design" by Scott A. Burns and Subramanian Ramamurthy (July, 1983). *Journal of Structural Engineering*, **1984**, 110, 1920-1920	3	1
3	A Software System for Integrated Design and Construction Planning of Steel Frame Structures **2004**, 1		
2	A monomial-based method for non-linear structural analysis. *Engineering Computations*, **1999**, 16, 831-840	1.4	
1	The location of optimal object colors with more than two transitions. *Color Research and Application* , **2021**, 46, 1180	1.3	