

# Aris Daniilidis

## List of Publications by Year in descending order

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57  
papers

1,926  
citations

394421

19  
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254184

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g-index

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all docs

57  
docs citations

57  
times ranked

884  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The Łojasiewicz Inequality for Nonsmooth Subanalytic Functions with Applications to Subgradient Dynamical Systems. <i>SIAM Journal on Optimization</i> , 2007, 17, 1205-1223. | 2.0 | 414       |
| 2  | Clarke Subgradients of Stratifiable Functions. <i>SIAM Journal on Optimization</i> , 2007, 18, 556-572.   | 2.0 | 236       |
| 3  | Characterizations of Łojasiewicz inequalities: Subgradient flows, talweg, convexity. <i>Transactions of the American Mathematical Society</i> , 2009, 362, 3319-3363.         | 0.9 | 179       |
| 4  | On the equivalence between complementarity systems, projected systems and differential inclusions. <i>Systems and Control Letters</i> , 2006, 55, 45-51.                      | 2.3 | 116       |
| 5  | Subsmooth sets: Functional characterizations and related concepts. <i>Transactions of the American Mathematical Society</i> , 2004, 357, 1275-1301.                           | 0.9 | 87        |
| 6  | Coercivity conditions and variational inequalities. <i>Mathematical Programming</i> , 1999, 86, 433-438.  | 2.4 | 73        |
| 7  | Existence theorems for vector variational inequalities. <i>Bulletin of the Australian Mathematical Society</i> , 1996, 54, 473-481.   | 0.5 | 66        |
| 8  | Characterization of Nonsmooth Semistrictly Quasiconvex and Strictly Quasiconvex Functions. <i>Journal of Optimization Theory and Applications</i> , 1999, 102, 525-536.       | 1.5 | 63        |
| 9  | Approximate convexity and submonotonicity. <i>Journal of Mathematical Analysis and Applications</i> , 2004, 291, 292-301.   | 1.0 | 60        |
| 10 | On the Subdifferentials of Quasiconvex and Pseudoconvex Functions and Cyclic Monotonicity. <i>Journal of Mathematical Analysis and Applications</i> , 1999, 237, 30-42.       | 1.0 | 58        |
| 11 | Tame functions are semismooth. <i>Mathematical Programming</i> , 2009, 117, 5-19.   | 2.4 | 38        |
| 12 | Cut-Generating Functions and $S$ -Free Sets. <i>Mathematics of Operations Research</i> , 2015, 40, 276-391.   | 1.3 | 37        |
| 13 | Characterizations of evenly convex sets and evenly quasiconvex functions. <i>Journal of Mathematical Analysis and Applications</i> , 2002, 273, 58-66.                        | 1.0 | 32        |
| 14 | Connectedness of the Efficient Set for Three-Objective Quasiconcave Maximization Problems. <i>Journal of Optimization Theory and Applications</i> , 1997, 93, 517-524.        | 1.5 | 31        |
| 15 | An Appropriate Subdifferential for Quasiconvex Functions. <i>SIAM Journal on Optimization</i> , 2002, 12, 407-420.  | 2.0 | 28        |
| 16 | A nonsmooth Morse-Sard theorem for subanalytic functions. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 321, 729-740.                                      | 1.0 | 26        |
| 17 | Generic Optimality Conditions for Semialgebraic Convex Programs. <i>Mathematics of Operations Research</i> , 2011, 36, 55-70.   | 1.3 | 26        |
| 18 | Asymptotic behaviour of self-contracted planar curves and gradient orbits of convex functions. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2010, 94, 183-199.      | 1.6 | 24        |

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|----|---|-----|-----------|
| 19 | Identifying Structure of Nonsmooth Convex Functions by the Bundle Technique. <i>SIAM Journal on Optimization</i> , 2009, 20, 820-840.                               | 2.0 | 20        |
| 20 | Normal Characterization of the Main Classes of Quasiconvex Functions. <i>Set-Valued and Variational Analysis</i> , 2000, 8, 219-236.                                | 0.5 | 19        |
| 21 | Orthogonal Invariance and Identifiability. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014, 35, 580-598.   | 1.4 | 19        |
| 22 | Rectifiability of Self-Contracted Curves in the Euclidean Space and Applications. <i>Journal of Geometric Analysis</i> , 2015, 25, 1211-1239.                       | 1.0 | 19        |
| 23 | Clarke critical values of subanalytic Lipschitz continuous functions. <i>Annales Polonici Mathematici</i> , 0, 87, 13-25.   | 0.5 | 19        |
| 24 | Continuity and differentiability of set-valued maps revisited in the light of tame geometry. <i>Journal of the London Mathematical Society</i> , 2011, 83, 637-658. | 1.0 | 17        |
| 25 | Integration of multivalued operators and cyclic submonotonicity. <i>Transactions of the American Mathematical Society</i> , 2002, 355, 177-195.                     | 0.9 | 17        |
| 26 | Lower Subdifferentiability and Integration. <i>Set-Valued and Variational Analysis</i> , 2002, 10, 89-108.  | 0.5 | 16        |
| 27 | On a primal-proximal heuristic in discrete optimization. <i>Mathematical Programming</i> , 2005, 104, 105-128.  | 2.4 | 16        |
| 28 | Subdifferential characterization of approximate convexity: the lower semicontinuous case. <i>Mathematical Programming</i> , 2009, 116, 115-127.                     | 2.4 | 16        |
| 29 | Geometrical interpretation of the predictor-corrector type algorithms in structured optimization problems. <i>Optimization</i> , 2006, 55, 481-503.                 | 1.7 | 15        |
| 30 | Lower Semicontinuity of the Feasible Set Mapping of Linear Systems Relative to Their Domains. <i>Set-Valued and Variational Analysis</i> , 2013, 21, 67-92.         | 1.1 | 13        |
| 31 | Cyclic Hypomonotonicity, Cyclic Submonotonicity, and Integration. <i>Journal of Optimization Theory and Applications</i> , 2004, 122, 19-39.                        | 1.5 | 11        |
| 32 | Self-contracted curves in Riemannian manifolds. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 457, 1333-1352.                                    | 1.0 | 11        |
| 33 | Pathological Subgradient Dynamics. <i>SIAM Journal on Optimization</i> , 2020, 30, 1327-1338.   | 2.0 | 11        |
| 34 | Some Remarks on the Class of Continuous (Semi-)Strictly Quasiconvex Functions. <i>Journal of Optimization Theory and Applications</i> , 2007, 133, 37-48.           | 1.5 | 10        |
| 35 | Arrow-Barankin-Blackwell Theorems and Related Results in Cone Duality: A Survey. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2000, , 119-131.      | 0.3 | 9         |
| 36 | Integration of Fenchel Subdifferentials of Epi-Pointed Functions. <i>SIAM Journal on Optimization</i> , 2002, 12, 575-582.  | 2.0 | 8         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Stability in Linear Optimization Under Perturbations of the Left-Hand Side Coefficients. <i>Set-Valued and Variational Analysis</i> , 2015, 23, 737-758.                              | 1.1 | 8         |
| 38 | Normal Cones to Sublevel Sets: An Axiomatic Approach. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2001, , 88-101.  | 0.3 | 7         |
| 39 | Explicit formulas for $\mathbb{R}^1$ Glaeser-Whitney extensions of 1-Taylor fields in Hilbert spaces. <i>Proceedings of the American Mathematical Society</i> , 2018, 146, 4487-4495. | 0.8 | 6         |
| 40 | Spectral (isotropic) manifolds and their dimension. <i>Journal D'Analyse Mathematique</i> , 2016, 128, 369-397.   | 0.8 | 5         |
| 41 | The Morse–Sard theorem for Clarke critical values. <i>Advances in Mathematics</i> , 2013, 242, 217-227.   | 1.1 | 4         |
| 42 | Sard theorems for Lipschitz functions and applications in optimization. <i>Israel Journal of Mathematics</i> , 2016, 212, 757-790.  | 0.8 | 4         |
| 43 | Gradient Flows, Second-Order Gradient Systems and Convexity. <i>SIAM Journal on Optimization</i> , 2018, 28, 2049-2066.   | 2.0 | 4         |
| 44 | Linear Structure of Functions with Maximal Clarke Subdifferential. <i>SIAM Journal on Optimization</i> , 2019, 29, 511-521.   | 2.0 | 4         |
| 45 | Smooth semi-Lipschitz functions and almost isometries between Finsler manifolds. <i>Journal of Functional Analysis</i> , 2020, 279, 108662.   | 1.4 | 4         |
| 46 | Cut-Generating Functions. <i>Lecture Notes in Computer Science</i> , 2013, , 123-132.   | 1.3 | 4         |
| 47 | Orbits of Geometric Descent. <i>Canadian Mathematical Bulletin</i> , 2015, 58, 44-50.   | 0.5 | 3         |
| 48 | A Partial Answer to the Demyanov-Ryabova Conjecture. <i>Set-Valued and Variational Analysis</i> , 2018, 26, 143-157.  | 1.1 | 3         |
| 49 | A dual characterisation of the Radon-Nikodym property. <i>Bulletin of the Australian Mathematical Society</i> , 2000, 62, 379-387.  | 0.5 | 2         |
| 50 | Stability of periodic solutions for Lipschitz systems obtained via the averaging method. <i>Proceedings of the American Mathematical Society</i> , 2007, 135, 3317-3327.              | 0.8 | 2         |
| 51 | Metric and Geometric Relaxations of Self-Contracted Curves. <i>Journal of Optimization Theory and Applications</i> , 2019, 182, 81-109.   | 1.5 | 2         |
| 52 | Subdifferentials of convex functions and sigma-cyclic monotonicity. <i>Bulletin of the Australian Mathematical Society</i> , 2000, 61, 269-276.                                       | 0.5 | 1         |
| 53 | Characterization of Filippov representable maps and Clarke subdifferentials. <i>Mathematical Programming</i> , 2020, 189, 99.   | 2.4 | 1         |
| 54 | Sweeping by a tame process. <i>Annales De L'Institut Fourier</i> , 2017, 67, 2201-2223.   | 0.6 | 1         |

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|----|--|-----|-----------|
| 55 | A convex function satisfying the Łojasiewicz inequality but failing the gradient conjecture both at zero and infinity. Bulletin of the London Mathematical Society, 2022, 54, 590-608. | 0.8 | 1         |
| 56 | On the first integral conjecture of René Thom. Bulletin Des Sciences Mathematiques, 2008, 132, 625-631.  | 1.0 | 0         |
| 57 | Generalized Hessians of $C^{1,1}$ -Functions and Second-Order Viscosity Subjets. SIAM Journal on Optimization, 2010, 20, 3040-3058.  | 2.0 | 0         |