

Hector J Sussmann

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,454
citations

933264

10
h-index

1125617

13
g-index

22
all docs

22
docs citations

22
times ranked

659
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllability of nonlinear systems. <i>Journal of Differential Equations</i> , 1972, 12, 95-116.	1.1	671
2	Orbits of families of vector fields and integrability of distributions. <i>Transactions of the American Mathematical Society</i> , 1973, 180, 171-188.	0.5	562
3	Control systems on Lie groups. <i>Journal of Differential Equations</i> , 1972, 12, 313-329.	1.1	478
4	Lie Brackets and Local Controllability: A Sufficient Condition for Scalar-Input Systems. <i>SIAM Journal on Control and Optimization</i> , 1983, 21, 686-713.	1.1	190
5	Existence and uniqueness of minimal realizations of nonlinear systems. <i>Mathematical Systems Theory</i> , 1976, 10, 263-284.	0.5	186
6	Single-input observability of continuous-time systems. <i>Mathematical Systems Theory</i> , 1978, 12, 371-393.	0.5	116
7	Some properties of vector field systems that are not altered by small perturbations. <i>Journal of Differential Equations</i> , 1976, 20, 292-315.	1.1	74
8	The "Bang-Bang" Problem for Certain Control Systems in $GL(n, \mathbb{R})$. <i>SIAM Journal on Control and Optimization</i> , 1972, 10, 470-476.	1.6	50
9	On Controllability by Means of Two Vector Fields. <i>SIAM Journal on Control and Optimization</i> , 1975, 13, 1271-1281.	1.6	29
10	Remarks on the time-optimal control of two-link manipulators. , 1985, , .		19
11	Approximate finite-dimensional filters for some nonlinear problems. <i>Stochastics</i> , 1982, 7, 183-203.	0.6	17
12	Construction of minimal cocycles arising from specific differential equations. <i>Israel Journal of Mathematics</i> , 1997, 100, 309-326.	0.4	13
13	Accessibility under sampling. , 1982, , .		10
14	Needle Variations and Almost Lower Semicontinuous Differential Inclusions. <i>Set-Valued and Variational Analysis</i> , 2002, 10, 233-285.	0.5	10
15	THE BRACHISTOCHRONE PROBLEM AND MODERN CONTROL THEORY. , 2002, , 113-166.		9
16	On the Number of Directions Needed to Achieve Controllability. <i>SIAM Journal on Control and Optimization</i> , 1975, 13, 414-419.	1.6	6
17	A regularity theorem for minimizers of real-analytic subriemannian metrics. , 2014, , .		4
18	A bang-bang theorem with bounds on the number of switchings. , 1979, , .		1

#	ARTICLE	IF	CITATIONS
19	Ito, stratonovich and other limits. , 1980, , .		1
20	On the validity of the transversality condition for different concepts of tangent cone to a set. , 2006, , .		0
21	Lie algebras and regularity of controls for real-analytic control systems. , 2013, , .		0