

# Pierre Apkarian

## List of Publications by Year in descending order

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34  
papers

1,206  
citations

687363

13  
h-index

610901

24  
g-index

35  
all docs

35  
docs citations

35  
times ranked

532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonsmooth $H^\infty$ Synthesis. IEEE Transactions on Automatic Control, 2006, 51, 71-86.	5.7	574
2	Parametric Robust Structured Control Design. IEEE Transactions on Automatic Control, 2015, 60, 1857-1869.	5.7	102
3	Mixed $H_2/H_\infty$ Control via Nonsmooth Optimization. SIAM Journal on Control and Optimization, 2008, 47, 1516-1546.	2.1	90
4	Nonsmooth Optimization for Multidisk $H^\infty$ Synthesis. European Journal of Control, 2006, 12, 229-244.	2.6	71
5	Multi-model, multi-objective tuning of fixed-structure controllers. , 2014, , .		59
6	Nonsmooth $\mu$ -Synthesis. International Journal of Robust and Nonlinear Control, 2011, 21, 1493-1508.	3.7	41
7	IQC analysis and synthesis via nonsmooth optimization. Systems and Control Letters, 2006, 55, 971-981.	2.3	39
8	Structured $H^\infty$ control of infinite-dimensional systems. International Journal of Robust and Nonlinear Control, 2018, 28, 3212-3238.	3.7	38
9	Structured Robust Control Against Mixed Uncertainty. IEEE Transactions on Control Systems Technology, 2018, 26, 1771-1781.	5.2	25
10	Non-smooth techniques for stabilizing linear systems. Proceedings of the American Control Conference, 2007, , .	0.0	20
11	Nonsmooth Bundle Trust-region Algorithm with Applications to Robust Stability. Set-Valued and Variational Analysis, 2016, 24, 115-148.	1.1	20
12	Nonsmooth multi-objective synthesis with applications. Control Engineering Practice, 2009, 17, 1338-1348.	5.5	15
13	Time domain constrained $H^\infty$ synthesis. International Journal of Robust and Nonlinear Control, 2011, 21, 197-217.	3.7	15
14	Frequency-domain tuning of fixed-structure control systems. , 2012, , .		14
15	Non-smooth progress function algorithm for frequency-shaping control design. IET Control Theory and Applications, 2008, 2, 323-336.	2.1	13
16	Branch and bound algorithm with applications to robust stability. Journal of Global Optimization, 2017, 67, 553-579.	1.8	7
17	Optimizing the Kreiss Constant. SIAM Journal on Control and Optimization, 2020, 58, 3342-3362.	2.1	7
18	Lateral flight control design for a highly flexible aircraft using nonsmooth optimization. Aerospace Science and Technology, 2011, 15, 314-322.	4.8	6

#	ARTICLE	IF	CITATIONS
19	Non-Smooth Optimization for Robust Control of Infinite-Dimensional Systems. Set-Valued and Variational Analysis, 2018, 26, 405-429.	1.1	6
20	Time-Domain Control Design: A Nonsmooth Approach. IEEE Transactions on Control Systems Technology, 2009, 17, 1439-1445.	5.2	5
21	Robust eigenstructure clustering by non-smooth optimisation. International Journal of Control, 2015, 88, 1441-1455.	1.9	5
22	Output to input saturation transformation: Demonstration and application to disturbed linear systems. , 2015, , .		4
23	Worst-case stability and performance with mixed parametric and dynamic uncertainties. International Journal of Robust and Nonlinear Control, 2017, 27, 1284-1301.	3.7	4
24	Boundary control of partial differential equations using frequency domain optimization techniques. Systems and Control Letters, 2020, 135, 104577.	2.3	4
25	On a generalization of the LTR procedure. , 2011, , .		3
26	Robustness via structured $H_{\infty}$ synthesis. International Journal of Control, 2011, 84, 851-866.	1.9	3
27	Optimization-Based Control Design Techniques and Tools. , 2019, , 1-11.		3
28	Anti-windup design via nonsmooth multi-objective $H_{\infty}$ optimization. , 2011, , .		2
29	Branch and bound algorithm for the robustness analysis of uncertain systems**The authors acknowledge financial support by Fondation d'Entreprise EADS (F-EADS) and Fondation de Recherche pour l'Aéronautique et l'Espace (FNRAE).. IFAC-PapersOnLine, 2015, 48, 85-90.	0.9	2
30	Parametric robust $H_{\infty}$ control. , 2011, , .		1
31	Boundary feedback control of an anti-stable wave equation. IMA Journal of Mathematical Control and Information, 2020, 37, 1367-1399.	1.7	1
32	Learning Linear Feedback Controllers for Suppressing the Vortex-Shedding Flow Past a Cylinder. , 2022, 6, 3212-3217.		1
33	Optimization-Based Control Design Techniques and Tools. , 2021, , 1626-1637.		0
34	Mixed $H_{\infty}$ synthesis for $H_{\infty}$ stability. International Journal of Robust and Nonlinear Control, 2022, 32, 2119-2142.	3.7	0