

Marius Tucsnak

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61 papers	1,689 citations	20 h-index	40 g-index
61 ext. papers	1,986 ext. citations	1.8 avg, IF	5.01 L-index

#	Paper	IF	Citations
61	A class of incrementally scattering-passive nonlinear systems. <i>Automatica</i> , 2022 , 142, 110369	5.7	0
60	Strong stabilization of small water waves in a pool. <i>IFAC-PapersOnLine</i> , 2021 , 54, 378-383	0.7	1
59	Asymptotic behaviour of a system modelling rigid structures floating in a viscous fluid. <i>IFAC-PapersOnLine</i> , 2021 , 54, 205-212	0.7	1
58	Abstract nonlinear control systems 2021 ,		1
57	Stabilizability properties of a linearized water waves system. <i>Systems and Control Letters</i> , 2020 , 139, 104672	6.72	6
56	Non-linear damping for scattering-passive systems in the Maxwell class. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7458-7465	0.7	2
55	Well-Posedness and input-output stability for a system modelling rigid structures floating in a viscous fluid. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7491-7496	0.7	3
54	Mathematical analysis of the motion of a rigid body in a compressible Navier-Stokes-Euler fluid. <i>Mathematische Nachrichten</i> , 2019 , 292, 1972-2017	0.8	5
53	Analysis of a Simplified Model of Rigid Structure Floating in a Viscous Fluid. <i>Journal of Nonlinear Science</i> , 2019 , 29, 1975-2020	2.8	6
52	Controllability and positivity constraints in population dynamics with age structuring and diffusion. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2019 , 129, 153-179	1.7	12
51	Finite dimensional approximations for a class of infinite dimensional time optimal control problems. <i>International Journal of Control</i> , 2019 , 92, 132-144	1.5	6
50	Controllability with Positivity Constraints of the Lotka-McKendrick System. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 723-750	1.9	4
49	Analysis of the adiabatic piston problem via methods of continuum mechanics. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2018 , 35, 1377-1408	1.6	7
48	Some new applications of Russell's principle to infinite dimensional vibrating systems. <i>Annual Reviews in Control</i> , 2017 , 44, 184-198	10.3	1
47	Analysis of a system modelling the motion of a piston in a viscous gas. <i>Journal of Mathematical Fluid Mechanics</i> , 2017 , 19, 551-579	1.4	14
46	Perturbations of Time Optimal Control Problems for a Class of Abstract Parabolic Systems. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 2965-2991	1.9	9
45	An optimal control approach to ciliary locomotion. <i>Mathematical Control and Related Fields</i> , 2016 , 6, 293-334	3.4	1

44	Detectability and state estimation for linear age-structured population diffusion models. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016 , 50, 1731-1761	1.8	3
43	Particle supported control of a fluid-particle system. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2015 , 104, 311-353	1.7	13
42	Stabilization of a fluid-rigid body system. <i>Journal of Differential Equations</i> , 2015 , 259, 6459-6493	2.1	9
41	From exact observability to identification of singular sources. <i>Mathematics of Control, Signals, and Systems</i> , 2015 , 27, 1-21	1.3	6
40	The piston problem in a port-Hamiltonian formalism. <i>IFAC-PapersOnLine</i> , 2015 , 48, 212-216	0.7	2
39	Numerical approximation of some time optimal control problems 2015 ,		1
38	Well-posed systems—the LTI case and beyond. <i>Automatica</i> , 2014 , 50, 1757-1779	5.7	48
37	Maximum Principle and Bang-Bang Property of Time Optimal Controls for Schrödinger-Type Systems. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 4016-4038	1.9	14
36	Single input controllability of a simplified fluid-structure interaction model. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2013 , 19, 20-42	1	38
35	Controllability and Time Optimal Control for Low Reynolds Numbers Swimmers. <i>Acta Applicandae Mathematicae</i> , 2013 , 123, 175-200	1.1	31
34	Numerical aspects and controllability of a one dimensional fluid-structure model. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 19-24		1
33	On conditions for asymptotic stability of dissipative infinite-dimensional systems with intermittent damping. <i>Journal of Differential Equations</i> , 2012 , 252, 5569-5593	2.1	8
32	Time optimal boundary controls for the heat equation. <i>Journal of Functional Analysis</i> , 2012 , 263, 25-49	1.4	28
31	An Approximation Method for Exact Controls of Vibrating Systems. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 1283-1305	1.9	19
30	Weak Solutions for the Motion of a Self-propelled Deformable Structure in a Viscous Incompressible Fluid. <i>Acta Applicandae Mathematicae</i> , 2011 , 116, 329-352	1.1	10
29	An example for the switching delay feedback stabilization of an infinite dimensional system: The boundary stabilization of a string. <i>Systems and Control Letters</i> , 2011 , 60, 226-233	2.4	20
28	On the null-controllability of diffusion equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2011 , 17, 1088-1100	1	21
27	A time reversal based algorithm for solving initial data inverse problems. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2011 , 4, 641-652	2.8	18

26	Existence of solutions for the equations modeling the motion of rigid bodies in an ideal fluid. <i>Journal of Functional Analysis</i> , 2010 , 259, 2856-2885	1.4	15
25	Recovering the initial state of an infinite-dimensional system using observers. <i>Automatica</i> , 2010 , 46, 1616-1625	1.4	16
24	Local exact controllability for Berger plate equation. <i>Mathematics of Control, Signals, and Systems</i> , 2009 , 21, 93-110	1.3	4
23	Solving Inverse Source Problems Using Observability. Applications to the Euler-Bernoulli Plate Equation. <i>SIAM Journal on Control and Optimization</i> , 2009 , 48, 1632-1659	1.9	20
22	Observation and Control for Operator Semigroups 2009 ,		450
21	An Initial and Boundary Value Problem Modeling of Fish-like Swimming. <i>Archive for Rational Mechanics and Analysis</i> , 2008 , 188, 429-455	2.3	28
20	A control theoretic approach to the swimming of microscopic organisms. <i>Quarterly of Applied Mathematics</i> , 2007 , 65, 405-424	0.7	26
19	Uniformly exponentially stable approximations for a class of second order evolution equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2007 , 13, 503-527	1	28
18	Wellposedness for the Navier-Stokes flow in the exterior of a rotating obstacle. <i>Mathematical Methods in the Applied Sciences</i> , 2006 , 29, 595-623	2.3	18
17	Convergence of the Lagrange-Galerkin Method for the Equations Modelling the Motion of a Fluid-Rigid System. <i>SIAM Journal on Numerical Analysis</i> , 2005 , 43, 1536-1571	2.4	19
16	Global Strong Solutions for the Two-Dimensional Motion of an Infinite Cylinder in a Viscous Fluid. <i>Journal of Mathematical Fluid Mechanics</i> , 2004 , 6, 53-77	1.4	68
15	Convergence of the Lagrange-Galerkin method for a fluid-rigid system. <i>Comptes Rendus Mathematique</i> , 2004 , 339, 59-64	0.4	4
14	Energy decay estimates for the damped plate equation with a local degenerated dissipation. <i>Systems and Control Letters</i> , 2003 , 48, 191-197	2.4	17
13	How to get a conservative well-posed linear system out of thin air. Part I. Well-posedness and energy balance. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2003 , 9, 247-273	1	53
12	How to Get a Conservative Well-Posed Linear System Out of Thin Air. Part II. Controllability and Stability. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 907-935	1.9	40
11	Global Weak Solutions for the Two-Dimensional Motion of Several Rigid Bodies in an Incompressible Viscous Fluid. <i>Archive for Rational Mechanics and Analysis</i> , 2002 , 161, 113-147	2.3	120
10	Decay Rates for a Beam with Pointwise Force and Moment Feedback. <i>Mathematics of Control, Signals, and Systems</i> , 2002 , 15, 229-255	1.3	32
9	Simultaneous controllability in sharp time for two elastic strings. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2001 , 6, 259-273	1	14

8	Stabilization of second order evolution equations by a class of unbounded feedbacks. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2001 , 6, 361-386	1	109
7	Optimal location of the actuator for the pointwise stabilization of a string. <i>Comptes Rendus Mathematique</i> , 2000 , 330, 275-280		15
6	Simultaneous Exact Controllability and Some Applications. <i>SIAM Journal on Control and Optimization</i> , 2000 , 38, 1408-1427	1.9	27
5	Stabilization of Bernoulli--Euler Beams by Means of a Pointwise Feedback Force. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 1160-1181	1.9	76
4	Singular Internal Stabilization of the Wave Equation. <i>Journal of Differential Equations</i> , 1998 , 145, 184-215.	1.1	33
3	On a theorem of Ingham. <i>Journal of Fourier Analysis and Applications</i> , 1997 , 3, 577-582	1.1	22
2	Regularity and Exact Controllability for a Beam with Piezoelectric Actuator. <i>SIAM Journal on Control and Optimization</i> , 1996 , 34, 922-930	1.9	20
1	Large time behaviour for the motion of a solid in a viscous incompressible fluid. <i>Mathematische Annalen</i> , 1	1	