

Stig Larsson

List of Publications by Year in descending order

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52
papers

1,607
citations

318942

23
h-index

355658

38
g-index

55
all docs

55
docs citations

55
times ranked

771
citing authors

#	ARTICLE	IF	CITATIONS
1	A greedy algorithm for optimal heating in powder-bed-based additive manufacturing. <i>Journal of Mathematics in Industry</i> , 2021, 11, .	0.7	1
2	Mittag-Leffler Euler Integrator for a Stochastic Fractional Order Equation with Additive Noise. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 66-85.	1.1	13
3	Analytical solution for heat conduction due to a moving Gaussian heat flux with piecewise constant parameters. <i>Applied Mathematical Modelling</i> , 2019, 66, 227-240.	2.2	32
4	On a Randomized Backward Euler Method for Nonlinear Evolution Equations with Time-Irregular Coefficients. <i>Foundations of Computational Mathematics</i> , 2019, 19, 1387-1430.	1.5	8
5	On the discretisation in time of the stochastic Allen-Cahn equation. <i>Mathematische Nachrichten</i> , 2018, 291, 966-995.	0.4	24
6	Strong Convergence of a Fully Discrete Finite Element Approximation of the Stochastic Cahn-Hilliard Equation. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 708-731.	1.1	18
7	A Weak Space-Time Formulation for the Linear Stochastic Heat Equation. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 787-806.	0.9	2
8	Covariance structure of parabolic stochastic partial differential equations with multiplicative Lévy noise. <i>Journal of Differential Equations</i> , 2017, 262, 5896-5927.	1.1	5
9	Numerical Solution of Parabolic Problems Based on a Weak Space-Time Formulation. <i>Computational Methods in Applied Mathematics</i> , 2017, 17, 65-84.	0.4	11
10	Duality in refined Sobolev-Malliavin spaces and weak approximation of SPDE. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2016, 4, 113-149.	0.5	9
11	Full Discretization of Semilinear Stochastic Wave Equations Driven by Multiplicative Noise. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1093-1119.	1.1	43
12	Weak error analysis for semilinear stochastic Volterra equations with additive noise. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 437, 1283-1304.	0.5	15
13	On the Backward Euler Approximation of the Stochastic Allen-Cahn Equation. <i>Journal of Applied Probability</i> , 2015, 52, 323-338.	0.4	2
14	Weak convergence for a spatial approximation of the nonlinear stochastic heat equation. <i>Mathematics of Computation</i> , 2015, 85, 1335-1358.	1.1	45
15	On the Backward Euler Approximation of the Stochastic Allen-Cahn Equation. <i>Journal of Applied Probability</i> , 2015, 52, 323-338.	0.4	23
16	An Error Estimate for Symplectic Euler Approximation of Optimal Control Problems. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A946-A969.	1.3	1
17	Discontinuous Galerkin method for an integro-differential equation modeling dynamic fractional order viscoelasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 196-209.	3.4	45
18	Weak convergence of finite element approximations of linear stochastic evolution equations with additive noise II. Fully discrete schemes. <i>BIT Numerical Mathematics</i> , 2013, 53, 497.	1.0	21

#	ARTICLE	IF	CITATIONS
19	Optimal closing of a pair trade with a model containing jumps. <i>Applications of Mathematics</i> , 2013, 58, 249-268.	0.9	14
20	Covariance structure of parabolic stochastic partial differential equations. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2013, 1, 351-364.	0.5	7
21	Posterior contraction rates for the Bayesian approach to linear ill-posed inverse problems. <i>Stochastic Processes and Their Applications</i> , 2013, 123, 3828-3860.	0.4	55
22	A Trigonometric Method for the Linear Stochastic Wave Equation. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 204-222.	1.1	46
23	Local pointwise a posteriori gradient error bounds for the Stokes equations. <i>Mathematics of Computation</i> , 2012, 82, 625-649.	1.1	5
24	Optimal regularity for semilinear stochastic partial differential equations with multiplicative noise. <i>Electronic Journal of Probability</i> , 2012, 17, .	0.5	24
25	Weak convergence of finite element approximations of linear stochastic evolution equations with additive noise. <i>BIT Numerical Mathematics</i> , 2012, 52, 85-108.	1.0	46
26	Finite Element Approximation of the Cahn-Hilliard-Cook Equation. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 2407-2429.	1.1	42
27	Spatial approximation of stochastic convolutions. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 3554-3570.	1.1	12
28	Finite-element approximation of the linearized Cahn-Hilliard-Cook equation. <i>IMA Journal of Numerical Analysis</i> , 2011, 31, 1315-1333.	1.5	24
29	The dual weighted residuals approach to optimal control of ordinary differential equations. <i>BIT Numerical Mathematics</i> , 2010, 50, 587-607.	1.0	2
30	Strong convergence of the finite element method with truncated noise for semilinear parabolic stochastic equations with additive noise. <i>Numerical Algorithms</i> , 2010, 53, 309-320.	1.1	43
31	The continuous Galerkin method for an integro-differential equation modeling dynamic fractional order viscoelasticity. <i>IMA Journal of Numerical Analysis</i> , 2010, 30, 964-986.	1.5	22
32	Finite Element Approximation of the Linear Stochastic Wave Equation with Additive Noise. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 408-427.	1.1	57
33	Rate of weak convergence of the finite element method for the stochastic heat equation with additive noise. <i>BIT Numerical Mathematics</i> , 2009, 49, 343-356.	1.0	50
34	Space-time Discretization of an Integro-differential Equation Modeling Quasi-static Fractional-order Viscoelasticity. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 1631-1649.	1.5	13
35	ADAPTIVE DISCRETIZATION OF AN INTEGRO-DIFFERENTIAL EQUATION MODELING QUASI-STATIC FRACTIONAL ORDER VISCOELASTICITY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006, 39, 397-401.	0.4	0
36	Linearly Implicit Finite Element Methods for the Time-Dependent Joule Heating Problem. <i>BIT Numerical Mathematics</i> , 2005, 45, 429-442.	1.0	30

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37	Adaptive discretization of fractional order viscoelasticity using sparse time history. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 4567-4590.	3.4	44
38	Adaptive discretization of an integro-differential equation with a weakly singular convolution kernel. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 5285-5304.	3.4	24
39	Pointwise a Posteriori Error Analysis for an Adaptive Penalty Finite Element Method for the Obstacle Problem. <i>Computational Methods in Applied Mathematics</i> , 2001, 1, 18-38.	0.4	18
40	A shadowing result with applications to finite element approximation of reaction-diffusion equations. <i>Mathematics of Computation</i> , 1999, 68, 55-73.	1.1	15
41	Adaptive Finite Element Methods for Parabolic Problems VI: Analytic Semigroups. <i>SIAM Journal on Numerical Analysis</i> , 1998, 35, 1315-1325.	1.1	63
42	Numerical solution of parabolic integro-differential equations by the discontinuous Galerkin method. <i>Mathematics of Computation</i> , 1998, 67, 45-71.	1.1	108
43	The Behavior of Finite Element Solutions of Semilinear Parabolic Problems Near Stationary Points. <i>SIAM Journal on Numerical Analysis</i> , 1994, 31, 1000-1018.	1.1	29
44	The stability of rational approximations of analytic semigroups. <i>BIT Numerical Mathematics</i> , 1993, 33, 74-84.	1.0	83
45	THE DISCRETE ORDINATES METHOD FOR THE NEUTRON TRANSPORT EQUATION IN AN INFINITE CYLINDRICAL DOMAIN. <i>Mathematical Models and Methods in Applied Sciences</i> , 1992, 02, 317-338.	1.7	9
46	Error estimates with smooth and nonsmooth data for a finite element method for the Cahn-Hilliard equation. <i>Mathematics of Computation</i> , 1992, 58, 603.	1.1	140
47	Finite-Element Methods for a Strongly Damped Wave Equation. <i>IMA Journal of Numerical Analysis</i> , 1991, 11, 115-142.	1.5	67
48	Interpolation of coefficients and transformation of the dependent variable in finite element methods for the non-linear heat equation. <i>Mathematical Methods in the Applied Sciences</i> , 1989, 11, 105-124.	1.2	30
49	The Long-Time Behavior of Finite-Element Approximations of Solutions to Semilinear Parabolic Problems. <i>SIAM Journal on Numerical Analysis</i> , 1989, 26, 348-365.	1.1	59
50	Error Estimates of Optimal Order for Finite Element Methods with Interpolated Coefficients for the Nonlinear Heat Equation. <i>IMA Journal of Numerical Analysis</i> , 1989, 9, 507-524.	1.5	38
51	Error estimates for spatially discrete approximations of semilinear parabolic equations with nonsmooth initial data. <i>Mathematics of Computation</i> , 1987, 49, 331-357.	1.1	46
52	Error estimates of the backward Euler-Maruyama method for multi-valued stochastic differential equations. <i>BIT Numerical Mathematics</i> , 0, , 1.	1.0	2