Ruben Spies

List of Publications by Year
in descending order

48 papers	426 citations	933447 10 h-index	794594 19 g-index
51 all docs	51 docs citations	51 times ranked	283 citing authors

#	Article	IF	Citations
1	Transfer Learning Based on Optimal Transport for Motor Imagery Brain-Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2022, 69, 807-817.	4.2	18
2	Thinking out loud, an open-access EEG-based BCI dataset for inner speech recognition. Scientific Data, 2022, 9, 52.	5.3	22
3	A motor imagery vs. rest dataset with low-cost consumer grade EEG hardware. Data in Brief, 2022, 42, 108225.	1.0	3
4	A multi-class structured dictionary learning method using discriminant atom selection. Pattern Analysis and Applications, 2021, 24, 685-700.	4.6	1
5	Extreme Learning Machine Design for Dealing with Unrepresentative Features. Neuroinformatics, 2021, , 1.	2.8	0
6	Automatic scoring of apnea and hypopnea events using blood oxygen saturation signals. Biomedical Signal Processing and Control, 2020, 62, 102062.	5.7	17
7	A feasibility study of a complete low-cost consumer-grade brain-computer interface system. Heliyon, 2020, 6, e03425.	3.2	35
8	Switching Divergences for Spectral Learning in Blind Speech Dereverberation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 881-891.	5.8	1
9	A penalized time-frequency band feature selection and classification procedure for improved motor intention decoding in multichannel EEG. Journal of Neural Engineering, 2019, 16, 016019.	3.5	41
10	A Bayesian approach to convolutive nonnegative matrix factorization for blind speech dereverberation. Signal Processing, 2018, 151, 89-98.	3.7	4
11	Optimal chemotherapy schedules from tumor entropy. Computational and Applied Mathematics, 2017, 36, 991-1008.	1.3	1
12	Anisotropic BVâ€"L2 regularization of linear inverse ill-posed problems. Journal of Mathematical Analysis and Applications, 2017, 450, 427-443.	1.0	5
13	Discriminative methods based on sparse representations of pulse oximetry signals for sleep apneaâ€"hypopnea detection. Biomedical Signal Processing and Control, 2017, 33, 358-367.	5.7	20
14	Coherent averaging estimation autoencoders applied to evoked potentials processing. Neurocomputing, 2017, 240, 47-58.	5.9	2
15	Generalized sparse discriminant analysis for event-related potential classification. Biomedical Signal Processing and Control, 2017, 35, 70-78.	5.7	13
16	On the use of convolutive nonnegative matrix factorization with mixed penalization for blind speech dereverberation. , 2017, , .		2
17	A two-step mixed inpainting method with curvature-based anisotropy and spatial adaptivity. Inverse Problems and Imaging, 2017, 11, 247-262.	1.1	1
18	Local Discriminant Wavelet Packet Basis for Signal Classification in Brain Computer Interface. IFMBE Proceedings, 2015, , 584-587.	0.3	4

#	Article	IF	Citations
19	Mixed spatially varying L2-BV regularization of inverse ill-posed problems. Journal of Inverse and Ill-Posed Problems, 2015, 23, .	1.0	6
20	Variable order smoothness priors for ill-posed inverse problems. Mathematics of Computation, 2014, 84, 1753-1773.	2.1	3
21	Image restoration with a half-quadratic approach to mixed weighted smooth and anisotropic bounded variation regularization. SOP Transactions on Applied Mathematics, 2014, 1, 59-75.	0.2	2
22	Directional convergence of spectral regularization method associated to families of closed operators. Computational and Applied Mathematics, 2013, 32, 119-134.	1.3	0
23	Regularization methods for ill-posed problems in multiple Hilbert scales. Inverse Problems, 2012, 28, 055005.	2.0	3
24	On the existence of global saturation for spectral regularization methods with optimal qualification. Journal of Inverse and Ill-Posed Problems, 2012, 20, .	1.0	0
25	Existence, uniqueness and stability of minimizers of generalized Tikhonovâ€"Phillips functionals. Journal of Mathematical Analysis and Applications, 2012, 396, 396-411.	1.0	9
26	Global Saturation of Regularization Methods forÂInverse Ill-Posed Problems. Journal of Optimization Theory and Applications, 2011, 148, 164-196.	1.5	2
27	Equations for the Missing Boundary Values inÂtheÂHamiltonian Formulation of Optimal Control Problems. Journal of Optimization Theory and Applications, 2011, 149, 26-46.	1.5	7
28	Generalized Qualification and Qualification Levels forÂSpectral Regularization Methods. Journal of Optimization Theory and Applications, 2009, 141, 547-567.	1.5	2
29	Well-posedness and exponential stability of a thermoelastic Jointâ€"Legâ€"Beam system with Robin boundary conditions. Mathematical and Computer Modelling, 2009, 49, 1097-1108.	2.0	4
30	On coupled transversal and axial motions of two beams with a joint. Journal of Mathematical Analysis and Applications, 2008, 339, 182-196.	1.0	10
31	Polynomial stability of a joint-leg-beam system with local damping. Mathematical and Computer Modelling, 2007, 46, 1236-1246.	2.0	4
32	Well-posedness, stability and numerical results for the thermoelastic behavior of a coupled joint-beam PDE-ODE system modeling the transverse motions of the antennas of a space structure. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1040309-1040310.	0.2	0
33	Sobre la no convergencia del mÃ©todo de mÃnimos cuadrados en dimension infinita. MAT Serie A, 2007, 14, 31-34.	1.0	0
34	FrÃ©chet differentiability of the solutions of a semilinear abstract Cauchy problem. Journal of Mathematical Analysis and Applications, 2005, 307, 656-676.	1.0	4
35	Differenciability of the solutions of a semilinear abstract Cauchy problem with respect to parameters. MAT Serie A, 2004, 8, 1-10.	1.0	0
36	Parameter Identification for Nonlinear Abstract Cauchy Problems Using Quasilinearization. Journal of Optimization Theory and Applications, 2002, 113, 227-250.	1.5	4

#	Article	IF	Citations
37	A quasilinearization approach for parameter identification in nonlinear abstract Cauchy problems. MAT Serie A, 2001, 3, 27-41.	1.0	0
38	Parameter Differentiability of the Solution of a Nonlinear Abstract Cauchy Problem. Journal of Mathematical Analysis and Applications, 2000, 252, 18-31.	1.0	4
39	Convergent spectral approximations for the thermomechanical processes in shape memory alloys. Nonlinear Analysis: Theory, Methods & Applications, 2000, 39, 11-32.	1.1	2
40	A quasilinearization approach for parameter identification in a nonlinear model of shape memory alloys. Inverse Problems, 1998, 14, 1551-1563.	2.0	2
41	Identifiability of the Landau–Ginzburg Potential in a Mathematical Model of Shape Memory Alloys. Journal of Mathematical Analysis and Applications, 1997, 212, 292-315.	1.0	3
42	STRUCTURAL DAMPING IN LAMINATED BEAMS DUE TO INTERFACIAL SLIP. Journal of Sound and Vibration, 1997, 204, 183-202.	3.9	129
43	On a mathematical model of phase transitions in materials with memory. , 1996, , 2697-2704.		0
44	A State-Space Approach to a One-Dimensional Mathematical Model for the Dynamics of Phase Transitions in Pseudoelastic Materials. Journal of Mathematical Analysis and Applications, 1995, 190, 58-100.	1.0	12
45	A Numerical Study of Parameter Sensitivities in Landau-Ginzburg Models of Phase Transitions in Shape Memory Alloys. Journal of Intelligent Material Systems and Structures, 1994, 5, 321-332.	2.5	11
46	Results on a mathematical model of thermomechanical phase transitions in shape memory materials. Smart Materials and Structures, 1994, 3, 459-469.	3.5	8
47	<title>Well-posedness and finite dimensional approximations of a mathematical model for the dynamics of shape-memory alloys</title>. , 1993, 1919, 90.		0
48	Modelling for control of shape memory alloys. , 0, , .		1