

Gary Rosen

List of Publications by Year in descending order

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21
papers

398
citations

840776

11
h-index

996975

15
g-index

21
all docs

21
docs citations

21
times ranked

320
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainty Quantification in Estimating Blood Alcohol Concentration From Transdermal Alcohol Level With Physics-Informed Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8094-8101.	11.3	17
2	Blood and breath alcohol concentration from transdermal alcohol biosensor data: estimation and uncertainty quantification via forward and inverse filtering for a covariate-dependent, physics-informed, hidden Markov model*. Inverse Problems, 2022, 38, 055002.	2.0	5
3	Deconvolving breath alcohol concentration from biosensor measured transdermal alcohol level under uncertainty: a Bayesian approach. Mathematical Biosciences and Engineering, 2021, 18, 6739-6770.	1.9	11
4	Linear Quadratic Gaussian Control of Random Abstract Parabolic Systems. , 2021, , .		3
5	Estimating the distribution of random parameters in a diffusion equation forward model for a transdermal alcohol biosensor. Automatica, 2019, 106, 101-109.	5.0	21
6	Comparing a distributed parameter model-based system identification technique with more conventional methods for inverse problems. Journal of Inverse and Ill-Posed Problems, 2019, 27, 703-717.	1.0	2
7	Estimation of the Distribution of Random Parameters in Discrete Time Abstract Parabolic Systems with Unbounded Input and Output: Approximation and Convergence. Communications in Applied Analysis, 2019, 23, 287-329.	0.1	5
8	Deconvolving the input to random abstract parabolic systems: a population model-based approach to estimating blood/breath alcohol concentration from transdermal alcohol biosensor data. Inverse Problems, 2018, 34, 125006.	2.0	23
9	Approximation and convergence in the estimation of random parameters in linear holomorphic semigroups generated by regularly dissipative operators. , 2017, , .		6
10	Using drinking data and pharmacokinetic modeling to calibrate transport model and blind deconvolution based data analysis software for transdermal alcohol biosensors. Mathematical Biosciences and Engineering, 2016, 13, 911-934.	1.9	29
11	Blind deconvolution for distributed parameter systems with unbounded input and output and determining blood alcohol concentration from transdermal biosensor data. Applied Mathematics and Computation, 2014, 231, 357-376.	2.2	33
12	Determining blood and/or breath alcohol concentration from transdermal alcohol data. , 2013, , .		2
13	A Novel Formulation of the Adjoint Method in the Optimal Design of Quantum Electronic Devices. SIAM Journal on Control and Optimization, 2010, 48, 3191-3223.	2.1	14
14	Data assimilation of ground GPS total electron content into a physics-based ionospheric model by use of the Kalman filter. Radio Science, 2004, 39, n/a-n/a.	1.6	92
15	Estimation of $E_{\text{A}}^{\text{B}}\text{—Bdrift}$ using a global assimilative ionospheric model: An observation system simulation experiment. Journal of Geophysical Research, 2003, 108, .	3.3	74
16	On-line robust parameter identification for parabolic systems. International Journal of Adaptive Control and Signal Processing, 2001, 15, 615-631.	4.1	37
17	On the Persistence of Excitation in the Adaptive Estimation of Distributed Parameter Systems. , 1993, , .		1
18	Galerkin approximation for inverse problems for nonautonomous nonlinear distributed systems. Applied Mathematics and Optimization, 1991, 24, 233-256.	1.6	14

#	ARTICLE	IF	CITATIONS
19	Approximation in discrete time-boundary control of flexible structures. , 1987, , .		3
20	Fully discrete approximation methods for the estimation of parabolic systems and boundary parameters. Acta Applicandae Mathematicae, 1986, 7, 1-34.	1.0	6
21	Approximation methods for inverse problems involving the vibration of beams with tip bodies. , 1984, , .		0