Gary Rosen

List of Publications by Year
in descending order

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	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
2	Estimation ofEÃ—Bdrift using a global assimilative ionospheric model: An observation system simulation experiment. Journal of Geophysical Research, 2003, 108, .	3.3	74
3	On-line robust parameter identification for parabolic systems. International Journal of Adaptive Control and Signal Processing, 2001, 15, 615-631.	4.1	37
4	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
5	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
6	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
7	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
8	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
9	Galerkin approximation for inverse problems for nonautonomous nonlinear distributed systems. Applied Mathematics and Optimization, 1991, 24, 233-256.	1.6	14
10	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
11	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
12	Fully discrete approximation methods for the estimation of parabolic systems and boundary parameters. Acta Applicandae Mathematicae, 1986, 7, 1-34.	1.0	6
13	Approximation and convergence in the estimation of random parameters in linear holomorphic semigroups generated by regularly dissipative operators. , 2017, , .		6
14	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
15	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
16	Approximation in discrete time-boundary control of flexible structures. , 1987, , .		3
17	Linear Quadratic Gaussian Control of Random Abstract Parabolic Systems. , 2021, , .		3
18	Determining blood and/or breath alcohol concentration from transdermal alcohol data. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
19	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
20	On the Persistence of Excitation in the Adaptive Estimation of Distributed Parameter Systems. , 1993, , .		1
21	Approximation methods for inverse problems involving the vibration of beams with tip bodies. , 1984, , .		0