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## Smoothing Approximation Functions Harold S Shapiro

**operator theory: advances and - springer** - operator theory: advances and applications vol. 156 editor: i. gohberg h. g. kaper (argonne) s. t. kuroda (tokyo) p. lancaster (calgary) l. e. lerner (haifa) b. mityagin (columbus) ... the harold s. shapiro anniversary volume peter ebenfelt björn gustafsson dmitry khavinson mihai putinar editors. **theory of probability—sir harold jeffreys table of contents** - 1.8 [expectations of functions] 53 ii. direct probabilities 2.0 likelihood 57 2.1 sampling [and the hypergeometric law] 59 2.11 [sampling with replacement; the binomial law] 60 2.12 [the normal approximation to the binomial] 61 2.13 [the law of large numbers] 62 2.14 [normal approximation to the hypergeometric] 66 **some tauberian theorems with applications** - some tauberian theorems with applications to approximation theory by harold s. shapiro communicated by l. cesari, november 29, 1967 in this note we state some results, mostly without proof, concerning **an interpolation projector associated to a non uniform ...** - an interpolation projector associated to a non uniform partition ... 0-splines are linear combination of characteristic functions of intervals. this is a simple addition to the usual definition and the reader will see ... smoothing and approximation of functions harold s. shapiro **regularity properties of the element of closest approximation** - 45] (i.e. functions whose modulus of continuity is  $O(\delta^a)$ ); whereas our  $a^*$  is zygmond's  $a^*$ , and  $a^*$  is the class of twice integrated  $L_p$  functions. finally, we have allowed ourselves the literary license to use the terms, "best approximation", and "closest element", to designate the same thing. the **geometric methods in image processing and computer vision ...** - harold g. longbotham, norman barsalou, [1991] adaptive edge-preserving smoothing via adaptive-mean-field annealing youn-sik han, wesley e. snyder, [1992] synthesis of stack filters by rank selection probabilities ruikang yang, moncef gabbouj, yrjo a. neuvo, [1994] when are two weighted-order statistic filters identical? **2001: resampling methods for input modeling** - another way of smoothing the empirical distribution function is to fit bézier curves to the edf (wagner and wilson 1995). the general conclusions in this paper should also apply to this approach to modeling the input distributions for simulating real systems. for the examples in section 5, we will use edf (1-b) smoothed with approximation (2-b) **the best interpolation problem** - for given functions  $\psi_k \in L^2[0,1]$ . the vector  $c \in \mathbb{R}^n$  belongs to the range of  $j$ , i.e.  $c_i = \int_0^1 \psi_i(t) x(t) dt$  for some  $x \in L^2[0,1]$ . note that the admissible set  $A$  is convex, closed and nonempty. the existence of minimum of the functional over the set  $A$  follows from the existence of the closest point to the origin in the **curriculum vitae - department of mathematics** - 15. boundary values and estimates for holomorphic functions of several complex variables, duke math. jour. 47(1980), 81{98. 16. fractional integration on hardy spaces, studia math. 73(1982), 87{94. 17. holomorphic functions of bounded mean oscillation and mapping properties of the szegő projection, duke math. jour. 47(1980), 743{761. 18. **optoelectronic tomography of wavelet-based ...** - optoelectronic tomography of wavelet-based features george w. rogers jeffrey l. solka carey e. priebe department of the navy naval surface warfare center, dahlgren division code k12 dahlgren, virginia 22448-5000 harold h. szu department of the navy naval surface warfare center code r44 10901 new hampshire avenue silver spring ... **on the spectrum of towers -ams** - on the spectrum of towers harold donnelly1 abstract. a new relation is derived between the spectrum of a noncompact riemannian manifold  $M$  and certain sequences of compact quotients of  $M$ . 1. introduction. let  $M$  be a complete riemannian manifold with isometry group  $iso(M)$ . **an analytical and numerical study of the second-order ...** - near-wall approximation are used to obtain the local velocity distribution in the laminar stokes sublayer and the corresponding time-mean dissipation. the input to the model are the unsteady pressure gradients along a blade surface obtained from an unsteady simulation. **dr. ahmed khamayseh professor of mathematics and dean** - dr. ahmed khamayseh professor of mathematics and dean ... "least-squares approximation of rough climate data with spherical harmonics basis functions", siam conference on computational science and engineering, miami, florida, march 2009. **multi-block decomposition using cross-fields** - multi-block decomposition using cross-fields harold j. fogg, cecil g. armstrong and trevor t. ... smoothing or optimisation schemes are needed to put order on the randomly ... huang et al. [22, 13] proposed the use of a spherical harmonic functions to describe cross- **speech rese - federation of american scientists** - relation to the wierstrass approximation theorem. for the purposes of the present treatment; the functions  $h_i$  in equation (3.2) can be considered generalized functions, and contain delta functions and derivatives thereof.(8) with this generality available, there is no **developing a simple numerical model in moist air for ...** - convection approximation (noisri and sukawat, 2011). but with the deep convection approximation one can use a time step of 0.4 seconds (noisri and exell, 2011) and get reasonable results in numerical experiments on the vertical movement of air over a heated surface representing a city heat island. 1 2. model description **numerical methods for experimental mechanics** - numerical methods for experimental mechanics by donald berghaus georgia institute of technology, us.a. springer science+business media, llc **auto-tuning mother nature: waves in music and water** - the approximation of the original function  $x(t)$  is accomplished through a combination of sine and cosine functions (evident by the product of  $\cos(2\pi ft) + \sin(2\pi ft)$  simplified as  $e^{-2\pi ift}$ ). given a signal as a function of time, say  $x(t)$ , the fourier transform, denoted  $f$ , converts the original signal into a function of frequency,  $f[x(t)] \rightarrow x(f)$ . **naval postgraduate school monterey, california** - implementing deterministic forcing functions and a maneuver divergence detection

scheme that uses a noise variance estimator process. this research investigates the behavior of a kalman filter in tracking a storm by means of latitude and longitude observations. the estimation of the forcing function, directional and **mesoscopic fluctuations in the fermi-liquid regime of the ...** - mesoscopic fluctuations in the fermi-liquid regime of the kondo problem denis ullmo<sup>1,2</sup>, a.dongeu<sup>3</sup>, s'ébastien burdin<sup>4,5</sup>, and harold u. baranger<sup>1</sup> universit'é paris-sud, lptms, umr8626, 91405 orsay, france 2 cnrs, 91405 orsay, france 3 department of physics, duke university, box 90305, durham, nc 27708-0305, usa **distributions of some serial correlation coefficients** - complicated and are given by different analytical functions in different parts of the range. following koopmans' method of smoothing the characteristic function of the variate, a simple approximation to the exact distribution of the circular serial correlation coefficient with known mean was found by dixon and rubin for uncorrelated data. **compiled by charles e. smith and nancy evans** - abstracts of contributed papers for nsf-cbms conference on "stochastic processes in life neurosciences" north carolina state university june 23-27, 1986 compiled by charles e. smith and nancy evans **scheduling multiclass queueing networks via fluid models** - of solid waste transfer stations, harold yaffe (uc-berkeley), transportation science, 1974. a deterministic queueing model is formulated - arrivals and departures of vehicles are treated as fluid flows. the model takes into account a time-dependent arrival rate of refuse. **curriculum vitae - department of mathematics | washington ...** - bibliography steven g. krantz published, accepted, or completed papers 1. optimal lipschitz and  $l_p$  regularity for the equation  $\Delta u = f$  on strongly pseudo-convex domains, math. annalen 219(1976), 233-260. 2. structure and interpolation theorems for certain lipschitz spaces and estimates. **andreas buja - faculty.wharton.upenn** - selected as the journal article of the issue, and finalist for jm's 2007 harold h. maynard award. "visualization methodology for multidimensional scaling," buja, a., and swayne, d.f., journal of classification 19, 7(43) (2002). special invited lead article. **curriculum vitae - citeseerx.ist.psu.edu** - 15. boundary values and estimates for holomorphic functions of several complex variables, duke math. jour. 47(1980), 81-98. 16. fractional integration on hardy spaces, studia math. 73(1982), 87-94. 17. holomorphic functions of bounded mean oscillation and mapping properties of the szegő projection, duke math. jour. 47(1980), 743-761. 18. **dennis d. boos journal of the american statistical association** - smoothing problems for point-process observations, optimal control of ... approximation methods for optimal controls under partial observations, ... or random elements (functions, sets, lines, etc.) are generally more difficult to analyze because the state space is not totally ordered. **chapter ii - shodhganga.flibnet** - also project the likelihood functions to the subspace so that the methods can be implemented as a kalman filter and is very efficient in terms of computing cost. the efficiency depends on how well the functions in the prior are modeled by model space  $m$  on average. it increases towards unit as  $m$  becomes larger. **the dc algorithm & the constrained fermat-torricelli problem** - the dc algorithm & the constrained fermat-torricelli problem nathan l., george b. faculty advisor: dr. mau nam nguyen fariborz maseeh department of mathematics and statistics po box 751, portland, oregon 97207 abstract the theory of functions expressible as the difference of convex (dc) functions has led to the development of ... harold kuhn ... **publications mathématiques de l'ihés - volumes 1-100** - publications mathématiques de l'ihés - volumes 1-100 273 chatelet, gilles and rosenberg, harold, manifolds which admit  $rn$  actions, 43 (1974), 245-260. chatelet, gilles, rosenberg, harold and weil, daniel, a classification of the topological types of  $r^2$ -actions on closed orientable 3-manifolds, 43 (1974), 261-272. **r.b. alexeev 6- v.v. peller, 1247 - mathku** - dmitry khavinson, john e. carthy, 6 harold s. shapiro, best approximation in the mean by analytic and harmonic functions ..... 1481 marta lewicka, 11 stability of patterns of non-interacting large shock waves ..... 1515 chi-kun lin, potential flow for the compressible viscous fluid **10 power flow approach to control of uncertain structures** - professor harold y. wachman chairman, department graduate committee massachusetts institute of technology ~ february 26 1990 library - an  $n$  power flow approach to control of uncertain structures by douglas g. macmartin submitted to the department of aeronautics and astronautics **plenary: the optimistic bayesian: replica method analysis ...** - plenary: the optimistic bayesian: replica method analysis of compressed sensing speaker: vivek goyal (mit) abstract . the conventional emphases in data acquisition are the density and accuracy of measurements. compressed sensing has reminded us of the importance of modeling and has brought sparsity- **outstanding presentations 7. embeddings of complete ...** - the two-dimensional smoothing of images via the total variational model jo fawna reali, california state university, stanislaus ... harold w. ellingsen jr., the state university of new york at potsdam (the state university of new york at ... fast approximation algorithms for spectral clustering juan carlos ramirez, instituto tecnológico ... **statistical computing: an introduction to data analysis ...** - topics, such as random number generation, approximation of probability distribution functions, least squares computations, and so forth. the book's subtitle reveals what it is about: "an introduction to data analysis using s-plus." crawley's intention, as stated in the preface, is to provide "both an introduction- **video compression quality metric for moving scenes** - video compression quality metric for moving scenes michael grima, gerald royce, harold szub, charles hsu anaval surface warfare center dahlgren laboratory, code k62, dahlgren, va 22448 **ieee transactions on signal processing, vol. 52, no. 5 ...** - harold artés, student member, ieee, gerald matz, member, ieee, and franz hlawatsch, senior member, ieee abstract—we propose two methods for the estimation of scattering functions of random time-varying channels. in contrast to existing methods, our methods exploit the

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*underspread property of these channels to achieve good estimation ... **mathematical modelling in science and technology** - mathematical modelling and digital simulation of a current-fed induction motor system a. kelemen and maria imecs 550 a nonlinear model for prediction of stresses in submarine pipelines during pickup operations khyruddin a. ansari 556 a comparative study of the effects of cladding panel modelling r. m. henry and c. stein 560 biology add ... **2014 ieee international workshop on machine learning for ...** - 2014 ieee international workshop on machine learning for signal processing september 21-24, reims, france paper index brain source localization using a physics-driven structured cospase representation of eeg signals*

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