

References

- 7399 Abel, Niels H. 1826. *Démonstration de l’Impossibilité de la Résolution Algébrique des*
7400 *Équations Générales qui Passent le Quatrième Degré*. Grøndahl & Søn. pages 336
- 7401 Adhikari, Ani, and DeNero, John. 2018. *Computational and Inferential Thinking: The*
7402 *Foundations of Data Science*. Gitbooks. pages 256
- 7403 Agakov, Felix V., and Barber, David. 2004. An Auxiliary Variational Method. In: *Neural*
7404 *Information Processing Systems*. pages 280
- 7405 Agarwal, Arvind, and III, Hal Daumé. 2010. A Geometric View of Conjugate Priors.
7406 *Machine Learning*, **81**(1), 99–113. pages 212
- 7407 Agresti, A. 2002. *Categorical Data Analysis*. Wiley. pages 274
- 7408 Akaike, Hirotugu. 1974. A New Look at the Statistical Model Identification. *IEEE*
7409 *Transactions on Automatic Control*, **19**(6), 716–723. pages 290
- 7410 Akhiezer, N.I., and Glazman, I.M. 1993. *Theory of Linear Operators in Hilbert Space*.
7411 Dover Publications, Inc. pages 397
- 7412 Alpaydin, Ethem. 2010. *Introduction to Machine Learning*. MIT Press. pages 2
- 7413 Amari, Shun-ichi. 2016. *Information Geometry and Its Applications*. Springer. pages
7414 201
- 7415 Argyriou, Andreas, and Dinuzzo, Francesco. 2014. A Unifying View of Representer
7416 Theorems. In: *Proceedings of the International Conference on Machine Learning*.
7417 pages 387
- 7418 Aronszajn, N. 1950. Theory of Reproducing Kernels. *Transactions of the American*
7419 *Mathematical Society*, **68**, 337–404. pages 392, 393, 397
- 7420 Axler, Sheldon. 2015. *Linear Algebra Done Right*. 3rd edn. Springer. pages 51, 62, 65,
7421 95
- 7422 Bakir, Gökhan, Hofmann, Thomas, Schölkopf, Bernhard, Smola, Alexander J., Taskar,
7423 Ben, and Vishwanathan, S.V.N (eds). 2007. *Predicting Structured Data*. MIT Press.
7424 pages 285
- 7425 Barber, David. 2012. *Bayesian Reasoning and Machine Learning*. Cambridge University
7426 Press. pages 2, 226, 276, 279, 317, 370
- 7427 Barndorff-Nielsen, Ole. 2014. *Information and Exponential Families: In Statistical The-*
7428 *ory*. Wiley. pages 225
- 7429 Bartholomew, David, Knott, Martin, and Moustaki, Irini. 2011. *Latent Variable Models*
7430 *and Factor Analysis: A Unified Approach*. Wiley. pages 348
- 7431 Beck, Amir, and Teboulle, Marc. 2003. Mirror Descent and Nonlinear Projected Subgra-
7432 dient Methods for Convex Optimization. *Operations Research Letters*, **31**(3), 167–
7433 175. pages 250
- 7434 Belabbas, Mohamed-Ali, and Wolfe, Patrick J. 2009. Spectral Methods in Machine
7435 Learning and New Strategies for Very Large Datasets. *Proceedings of the National*
7436 *Academy of Sciences*, 0810600105. pages 138
- 7437 Belkin, Mikhail, and Niyogi, Partha. 2003. Laplacian Eigenmaps for Dimensionality
7438 Reduction and Data Representation. *Neural Computation*, **15**(6), 1373–1396. pages
7439 138

- 7440 Ben-Hur, Asa, Ong, Cheng S., Sonnenburg, Sören, Schölkopf, Bernhard, and Rätsch,
7441 Gunnar. 2008. Support Vector Machines and Kernels for Computational Biology.
7442 *PLoS Computational Biology*, **4**(10), e1000173. pages 393, 397
- 7443 Bennett, Kristin P., and Bredensteiner, Erin J. 2000a. Duality and Geometry in SVM
7444 Classifiers. In: *Proceedings of the International Conference on Machine Learning*.
7445 pages 391
- 7446 Bennett, Kristin P., and Bredensteiner, Erin J. 2000b. Geometry in Learning. In: Gorini,
7447 Catherine A. (ed), *Geometry at Work*. The Mathematical Association of America.
7448 pages 391
- 7449 Berlinet, Alain, and Thomas-Agnan, Christine. 2004. *Reproducing Kernel Hilbert Spaces*
7450 *in Probability and Statistics*. Springer. pages 392
- 7451 Bertsekas, Dimitri P. 1999. *Nonlinear Programming*. Athena Scientific. pages 250
- 7452 Bertsekas, Dimitri P. 2009. *Convex Optimization Theory*. Athena Scientific. pages 251
- 7453 Betancourt, Michael. 2018. *Probability Theory (for Scientists and Engi-*
7454 *neers)*. [https://betanalpha.github.io/assets/case_studies/probability_](https://betanalpha.github.io/assets/case_studies/probability_theory.html)
7455 [theory.html](https://betanalpha.github.io/assets/case_studies/probability_theory.html). pages 184
- 7456 Bickel, Peter J., and Doksum, Kjell. 2006. *Mathematical Statistics, Basic Ideas and*
7457 *Selected Topics*. Vol. 1. Prentice Hall. pages 225
- 7458 Bickson, Danny, Dolev, Danny, Shental, Ori, Siegel, Paul H., and Wolf, Jack K. 2007.
7459 Linear Detection via Belief Propagation. In: *Proceedings of the Annual Allerton Con-*
7460 *ference on Communication, Control, and Computing*. pages 285
- 7461 Billingsley, Patrick. 1995. *Probability and Measure*. Wiley. pages 184, 223, 225
- 7462 Bishop, Christopher M. 1995. *Neural Networks for Pattern Recognition*. Clarendon
7463 Press. pages 317
- 7464 Bishop, Christopher M. 1999. Bayesian PCA. In: *Advances in Neural Information Pro-*
7465 *cessing Systems*. pages 348
- 7466 Bishop, Christopher M. 2006. *Pattern Recognition and Machine Learning*. Springer.
7467 pages vii, 2, 96, 173, 177, 182, 196, 203, 213, 217, 221, 226, 266, 276, 277, 278,
7468 279, 280, 284, 302, 317, 335, 369, 370, 397, 398
- 7469 Blei, David M., Kucukelbir, Alp, and McAuliffe, Jon D. 2017. Variational Inference: A
7470 Review for Statisticians. *Journal of the American Statistical Association*, **112**(518),
7471 859–877. pages 276, 279, 348
- 7472 Blum, Arvim, and Hardt, Moritz. 2015. The Ladder: A Reliable Leaderboard for Ma-
7473 chine Learning Competitions. In: *International Conference on Machine Learning*.
7474 pages 265
- 7475 Bonnans, J. Frédéric, Gilbert, J. Charles, Lemaréchal, Claude, and Sagastizábal, Clau-
7476 dia A. 2006. *Numerical Optimization: Theoretical and Practical Aspects*. 2nd edn.
7477 Springer Verlag. pages 251
- 7478 Borwein, Jonathan M., and Lewis, Adrian S. 2006. *Convex Analysis and Nonlinear*
7479 *Optimization*. 2nd edn. Canadian Mathematical Society. pages 251
- 7480 Bottou, Léon. 1998. Online Algorithms and Stochastic Approximations. In: *Online*
7481 *Learning and Neural Networks*. Cambridge University Press. pages 236
- 7482 Bottou, Léon, Curtis, Frank E, and Nocedal, Jorge. 2018. Optimization Methods for
7483 Large-scale Machine Learning. *SIAM Review*, **60**(2), 223–311. pages 237, 250, 251
- 7484 Boucheron, Stephane, Lugosi, Gabor, and Massart, Pascal. 2013. *Concentration In-*
7485 *equalities: A Nonasymptotic Theory of Independence*. Oxford University Press. pages
7486 181
- 7487 Boyd, Stephen, and Vandenberghe, Lieven. 2004. *Convex Optimization*. Cambridge
7488 University Press. pages 234, 238, 241, 251
- 7489 Boyd, Stephen, and Vandenberghe, Lieven. 2018. *Introduction to Applied Linear Alge-*
7490 *bra*. Cambridge University Press. pages 95

- 7491 Brochu, Eric, Cora, Vlad M., and de Freitas, Nando. 2009. *A Tutorial on Bayesian*
7492 *Optimization of Expensive Cost Functions, with Application to Active User Modeling*
7493 *and Hierarchical Reinforcement Learning*. Tech. rept. TR-2009-023. Department of
7494 Computer Science, University of British Columbia. pages 276
- 7495 Brooks, Steve, Gelman, Andrew, Jones, Galin L., and Meng, Xiao-Li (eds). 2011. *Hand-*
7496 *book of Markov Chain Monte Carlo*. Chapman and Hall/CRC. pages 279
- 7497 Brown, Lawrence D. 1986. *Fundamentals of Statistical Exponential Families: With Ap-*
7498 *plications in Statistical Decision Theory*. Lecture Notes - Monograph Series. Institute
7499 of Mathematical Statistics. pages 215, 217
- 7500 Bryson, Arthur E. 1961. A Gradient Method for Optimizing Multi-stage Allocation
7501 Processes. In: *Proceedings of the Harvard University Symposium on Digital Computers*
7502 *and Their Applications*. pages 162
- 7503 Bubeck, Sébastien. 2015. Convex Optimization: Algorithms and Complexity. *Founda-*
7504 *tions and Trends in Machine Learning*, 8(3-4), 231–357. pages 251
- 7505 Bühlmann, Peter, and Geer, Sara Van De. 2011. *Statistics for High-Dimensional Data*.
7506 Springer. pages 268
- 7507 Burges, Christopher. 2010. Dimension Reduction: A Guided Tour. *Foundations and*
7508 *Trends in Machine Learning*, 2(4), 275–365. pages 349
- 7509 Carroll, J Douglas, and Chang, Jih-Jie. 1970. Analysis of Individual Differences in
7510 Multidimensional Scaling via an N-way Generalization of “Eckart-Young” Decompo-
7511 sition. *Psychometrika*, 35(3), 283–319. pages 138, 139
- 7512 Casella, George, and Berger, Roger L. 2002. *Statistical Inference*. Duxbury. pages 191,
7513 219, 220, 274
- 7514 Çınlar, Erhan. 2011. *Probability and Stochastics*. Springer. pages 225
- 7515 Chang, Chih-Chung, and Lin, Chih-Jen. 2011. LIBSVM: A Library for Support Vector
7516 Machines. *ACM Transactions on Intelligent Systems and Technology*, 2, 27:1–27:27.
7517 Software available at <http://www.csie.ntu.edu.tw/~cjlin/libsvm>. pages 396
- 7518 Cheeseman, Peter. 1985. In Defense of Probability. In: *Proceedings of the International*
7519 *Joint Conference on Artificial Intelligence*. pages 274
- 7520 Chollet, Francois, and Allaire, J. J. 2018. *Deep Learning with R*. Manning Publications.
7521 pages 2
- 7522 Codd, Edgar F. 1990. *The Relational Model for Database Management*. Addison-Wesley
7523 Longman Publishing. pages 256
- 7524 Cunningham, John P., and Ghahramani, Zoubin. 2015. Linear Dimensionality Reduc-
7525 tion: Survey, Insights, and Generalizations. *Journal of Machine Learning Research*,
7526 16, 2859–2900. pages 349
- 7527 Datta, Biswa N. 2010. *Numerical Linear Algebra and Applications*. Vol. 116. SIAM.
7528 pages 130
- 7529 Davidson, Anthony C., and Hinkley, David V. 1997. *Bootstrap Methods and their Appli-*
7530 *cation*. Cambridge University Press. pages 268
- 7531 Dean, Jeffrey, Corrado, Greg S, Monga, Rajat, Chen, Kai, Devin, Matthieu, Le, Quoc V,
7532 Mao, Mark Z, Ranzato, Marc Aurelio, Senior, Andrew, Tucker, Paul, Yang, Ke, and
7533 Ng, Andrew Y. 2012. Large Scale Distributed Deep Networks. In: *Advances in Neural*
7534 *Information Processing Systems*. pages 237
- 7535 Deisenroth, Marc P., and Mohamed, Shakir. 2012. Expectation Propagation in Gaus-
7536 sian Process Dynamical Systems. Pages 2618–2626 of: *Advances in Neural Informa-*
7537 *tion Processing Systems*. pages 285
- 7538 Deisenroth, Marc P., and Ohlsson, Henrik. 2011. A General Perspective on Gaussian
7539 Filtering and Smoothing: Explaining Current and Deriving New Algorithms. In:
7540 *Proceedings of the American Control Conference*. pages 203
- 7541 Deisenroth, Marc P., Fox, Dieter, and Rasmussen, Carl E. 2015. Gaussian Processes
7542 for Data-Efficient Learning in Robotics and Control. *IEEE Transactions on Pattern*
7543 *Analysis and Machine Intelligence*, 37(2), 408–423. pages 92, 190, 276

- 7544 Dempster, A. P., Laird, N. M., and Rubin, D. B. 1977. Maximum Likelihood from
7545 Incomplete Data via the EM Algorithm. *Journal of the Royal Statistical Society*,
7546 **39**(1), 1–38. pages 363
- 7547 Deng, Li, Seltzer, Michael L., Yu, Dong, Acero, Alex, Mohamed, Abdel-rahman, and
7548 Hinton, Geoffrey E. 2010. Binary Coding of Speech Spectrograms using a Deep
7549 Auto-Encoder. Pages 1692–1695 of: *Interspeech*. pages 84
- 7550 Devroye, Luc. 1986. *Non-Uniform Random Variate Generation*. Springer. pages 208
- 7551 Donoho, David L, and Grimes, Carrie. 2003. Hessian Eigenmaps: Locally Linear Em-
7552 bedding Techniques for High-dimensional Data. *Proceedings of the National Academy
7553 of Sciences*, **100**(10), 5591–5596. pages 138
- 7554 Dostál, Zdeněk. 2009. *Optimal Quadratic Programming Algorithms: With Applications
7555 to Variational Inequalities*. Springer. pages 388
- 7556 Douven, Igor. 2017. Abduction. In: *The Stanford Encyclopedia of Philosophy*. Meta-
7557 physics Research Lab, Stanford University. pages 261
- 7558 Downey, Allen B. 2014. *Think Stats: Exploratory Data Analysis*. 2nd edn. O’Reilly
7559 Media. pages 225
- 7560 Dreyfus, Stuart. 1962. The Numerical Solution of Variational Problems. *Journal of
7561 Mathematical Analysis and Applications*, **5**(1), 30–45. pages 162
- 7562 Drumm, Volker, and Weil, Wolfgang. 2001. *Lineare Algebra und Analytische Geometrie*.
7563 Lecture Notes, Universität Karlsruhe (TH). pages 20, 56
- 7564 Dudley, Richard M. 2002. *Real Analysis and Probability*. Cambridge University Press.
7565 pages 225
- 7566 Eaton, Morris L. 2007. *Multivariate Statistics: A Vector Space Approach*. Vol. 53. Insti-
7567 tute of Mathematical Statistics Lecture Notes—Monograph Series. pages 199
- 7568 Efron, Bradley, and Hastie, Trevor. 2016. *Computer Age Statistical Inference: Algorithms,
7569 Evidence and Data Science*. Cambridge University Press. pages 177, 209, 273, 274
- 7570 Efron, Bradley, and Tibshirani, Robert J. 1993. *An Introduction to the Bootstrap*. Chap-
7571 man and Hall/CRC. pages 268
- 7572 Elliott, Conal. 2009. Beautiful Differentiation. In: *International Conference on Func-
7573 tional Programming*. pages 173
- 7574 Evgeniou, Theodoros, Pontil, Massimiliano, and Poggio, Tomaso. 2000. Statistical
7575 Learning Theory: A Primer. *International Journal of Computer Vision*, **38**(1), 9–13.
7576 pages 268
- 7577 Fan, Rong-En, Chang, Kai-Wei, Hsieh, Cho-Jui, Wang, Xiang-Rui, and Lin, Chih-Jen.
7578 2008. LIBLINEAR: A Library for Large Linear Classification. *Journal of Machine
7579 Learning Research*, **9**, 1871–1874. pages 383
- 7580 Gal, Yarin, van der Wilk, Mark, and Rasmussen, Carl E. 2014. Distributed Variational
7581 Inference in Sparse Gaussian Process Regression and Latent Variable Models. In:
7582 *Advances in Neural Information Processing Systems*. pages 237
- 7583 Gärtner, Thomas. 2008. *Kernels for Structured Data*. World Scientific. pages 393
- 7584 Gavish, Matan, and Donoho, David L. 2014. The Optimal Hard Threshold for Singular
7585 Values is $4\sqrt{3}$. *IEEE Transactions on Information Theory*, **60**(8), 5040–5053. pages
7586 347
- 7587 Gelman, Andrew, Carlin, John B., Stern, Hal S., and Rubin, Donald B. 2004. *Bayesian
7588 Data Analysis*. Second. Chapman & Hall/CRC. pages 275
- 7589 Gentle, James E. 2004. *Random Number Generation and Monte Carlo Methods*. 2nd
7590 edn. Springer. pages 208
- 7591 Ghahramani, Zoubin. 2015. Probabilistic Machine Learning and Artificial Intelligence.
7592 *Nature*, **521**, 452–459. pages 188, 279
- 7593 Ghahramani, Zoubin, and Roweis, Sam T. 1999. Learning Nonlinear Dynamical Sys-
7594 tems using an EM Algorithm. In: *Advances in Neural Information Processing Systems*.
7595 MIT Press. pages 277, 370

- 7596 Gilks, Walter R., Richardson, Sylvia, and Spiegelhalter, David J. 1996. *Markov Chain*
7597 *Monte Carlo in Practice*. Chapman & Hall. pages 276, 279, 348
- 7598 Gneiting, Tilmann, and Raftery, Adrian E. 2007. Strictly Proper Scoring Rules, Pre-
7599 diction, and Estimation. *Journal of the American Statistical Association*, **102**(477),
7600 359–378. pages 398
- 7601 Goh, Gabriel. 2017. Why Momentum Really Works. *Distill*. pages 234, 250
- 7602 Gohberg, Israel, Goldberg, Seymour, and Krupnik, Nahum. 2012. *Traces and Determi-*
7603 *nants of Linear Operators*. Vol. 116. Birkhäuser. pages 104
- 7604 Golan, Jonathan S. 2007. *The Linear Algebra a Beginning Graduate Student Ought to*
7605 *Know*. 2nd edn. Springer. pages 65
- 7606 Golub, Gene H., and Van Loan, Charles F. 2012. *Matrix Computations*. Vol. 4. JHU
7607 Press. pages 65
- 7608 Goodfellow, Ian, Bengio, Yoshua, and Courville, Aaron. 2016. *Deep Learning*. MIT
7609 Press. pages 217, 225, 258, 285, 317
- 7610 Graepel, Thore, Candela, Joaquin Quiñero-Candela, Borchert, Thomas, and Her-
7611 brich, Ralf. 2010. Web-scale Bayesian Click-through Rate Prediction for Sponsored
7612 Search Advertising in Microsoft’s Bing Search Engine. In: *Proceedings of the Interna-*
7613 *tional Conference on Machine Learning*. pages 276
- 7614 Griewank, Andreas, and Walther, Andrea. 2003. Introduction to Automatic Differenti-
7615 ation. In: *Proceedings in Applied Mathematics and Mechanics*. pages 173
- 7616 Griewank, Andreas, and Walther, Andrea. 2008. *Evaluating Derivatives, Principles and*
7617 *Techniques of Algorithmic Differentiation*. second edn. SIAM, Philadelphia. pages
7618 173
- 7619 Grimmett, Geoffrey, and Welsh, Dominic. 2014. *Probability: an Introduction*. 2nd edn.
7620 Oxford University Press. pages 225
- 7621 Grinstead, Charles M., and Snell, J. Laurie. 1997. *Introduction to Probability*. American
7622 Mathematical Society. pages 177, 201, 225
- 7623 Hacking, Ian. 2001. *Probability and Inductive Logic*. Cambridge University Press. pages
7624 225
- 7625 Hall, Peter. 1992. *The Bootstrap and Edgeworth Expansion*. Springer. pages 268
- 7626 Hallin, Marc, Paindaveine, Davy, and Šiman, Miroslav. 2010. Multivariate quantiles
7627 and multiple-output regression quantiles: from ℓ_1 optimization to halfspace depth.
7628 *Annals of Statistics*, **38**, 635–669. pages 192
- 7629 Hasselblatt, Boris, and Katok, Anatole. 2003. *A first course in dynamics with a*
7630 *Panorama of Recent Developments*. Cambridge University Press. pages 179
- 7631 Hastie, Trevor, Tibshirani, Robert, and Friedman, Jerome. 2001. *The Elements of Statis-*
7632 *tical Learning—Data Mining, Inference, and Prediction*. Springer Series in Statistics.
7633 175 Fifth Avenue, New York City, NY, USA: Springer-Verlag New York, Inc. pages
7634 268
- 7635 Hazan, Elad. 2015. Introduction to Online Convex Optimization. *Foundations and*
7636 *Trends in Optimization*, **2**(3-4), 157–325. pages 251
- 7637 Hensman, James, Fusi, Nicolò, and Lawrence, Neil D. 2013. Gaussian Processes for
7638 Big Data. In: *Proceedings of the Conference on Uncertainty in Artificial Intelligence*.
7639 pages 237
- 7640 Herbrich, Ralf, Minka, Tom, and Graepel, Thore. 2007. TrueSkill(TM): A Bayesian
7641 Skill Rating System. In: *Advances in Neural Information Processing Systems*. pages
7642 276, 285
- 7643 Hiriart-Urruty, Jean-Baptiste, and Lemaréchal, Claude. 2001. *Fundamentals of Convex*
7644 *Analysis*. Springer. pages 247, 251
- 7645 Hoffman, Matthew D., Blei, David M., Wang, Chong, and Paisley, John. 2013. Stochas-
7646 tic Variational Inference. *Journal of Machine Learning Research*, **14**(1), 1303–1347.
7647 pages 237, 276

- 7648 Hofmann, Thomas, Schölkopf, Bernhard, and Smola, Alexander J. 2008. Kernel Meth-
7649 ods in Machine Learning. *Annals of Statistics*, **36**(3), 1171–1220. pages 387
- 7650 Hogben, Leslie. 2013. *Handbook of Linear Algebra*. 2nd edn. Chapman and Hall/CRC.
7651 pages 20, 108
- 7652 Horn, Roger A., and Johnson, Charles R. 2013. *Matrix Analysis*. Cambridge University
7653 Press. pages 65
- 7654 Hotelling, Harold. 1933. Analysis of a Complex of Statistical Variables into Principal
7655 Components. *Journal of Educational Psychology*, **24**, 417–441. pages 83, 96, 319,
7656 322
- 7657 Hyvarinen, Aapo, Oja, Erkki, and Karhunen, Juha. 2001. *Independent Component Anal-*
7658 *ysis*. Wiley. pages 348
- 7659 Imbens, Guido W., and Rubin, Donald B. 2015. *Causal Inference for Statistics, Social*
7660 *and Biomedical Sciences*. Cambridge University Press. pages 285
- 7661 Jacod, Jean, and Protter, Philip. 2004. *Probability Essentials*. 2nd edn. Springer. pages
7662 178, 180, 184, 225
- 7663 Jaynes, Edwin T. 2003. *Probability Theory: The Logic of Science*. Cambridge University
7664 Press. pages 175, 176, 177, 187, 225, 274
- 7665 Jefferys, William H., and Berger, James O. 1992. Ockham’s Razor and Bayesian Analy-
7666 sis. *American Scientist*, **80**, 64–72. pages 287
- 7667 Jeffreys, Harold. 1961. *Theory of Probability*. 3rd edn. Oxford University Press. pages
7668 289
- 7669 Joachims, Thorsten. 1999. *Advances in Kernel Methods—Support Vector Learning*. MIT
7670 Press. Chap. Making Large-Scale SVM Learning Practical, pages 169–184. pages
7671 396
- 7672 Jordan, Michael I., Ghahramani, Zoubin, Jaakkola, Tommi S., and Saul, Lawrence K.
7673 1999. An Introduction to Variational Methods for Graphical Models. *Machine Learn-*
7674 *ing*, **37**, 183–233. pages 276, 279
- 7675 Julier, Simon J., and Uhlmann, Jeffrey K. 1997. A New Extension of the Kalman Filter
7676 to Nonlinear Systems. In: *Proceedings of AeroSense Symposium on Aerospace/Defense*
7677 *Sensing, Simulation and Controls*. pages 173
- 7678 Kalman, Dan. 1996. A Singularly Valuable Decomposition: The SVD of a Matrix. *The*
7679 *College Mathematics Journal*, **27**(1), 2–23. pages 120
- 7680 Kalman, Rudolf E.f. 1960. A New Approach to Linear Filtering and Prediction Prob-
7681 lems. *Transactions of the ASME—Journal of Basic Engineering*, **82**(Series D), 35–45.
7682 pages 203
- 7683 Kamthe, Sanket, and Deisenroth, Marc P. 2018. Data-Efficient Reinforcement Learning
7684 with Probabilistic Model Predictive Control. In: *Proceedings of the International*
7685 *Conference on Artificial Intelligence and Statistics*. pages 276
- 7686 Katz, Victor J. 2004. *A History of Mathematics*. Pearson/Addison-Wesley. pages 110
- 7687 Kelley, Henry J. 1960. Gradient Theory of Optimal Flight Paths. *Ars Journal*, **30**(10),
7688 947–954. pages 162
- 7689 Kimeldorf, George S., and Wahba, Grace. 1970. A Correspondence Between Bayesian
7690 Estimation on Stochastic Processes and Smoothing by Splines. *Annals of Mathemat-*
7691 *ical Statistics*, **41**(2), 495–502. pages 387
- 7692 Kittler, J., and Föglein, J. 1984. Contextual Classification of Multispectral Pixel Data.
7693 *Image and Vision Computing*, **2**(1), 13–29. pages 285
- 7694 Kolda, Tamara G., and Bader, Brett W. 2009. Tensor Decompositions and Applications.
7695 *SIAM Review*, **51**(3), 455–500. pages 139
- 7696 Koller, Daphne, and Friedman, Nir. 2009. *Probabilistic Graphical Models*. MIT Press.
7697 pages 284
- 7698 Kong, Linglong, and Mizera, Ivan. 2012. Quantile Tomography: Using Quantiles with
7699 Multivariate Data. *Statistica Sinica*, **22**, 1598–1610. pages 192
- 7700 Lang, Serge. 1987. *Linear Algebra*. Springer. pages 116

- 7701 Lawrence, Neil. 2005. Probabilistic Non-linear Principal Component Analysis with
7702 Gaussian Process Latent Variable Models. *Journal of Machine Learning Research*,
7703 **6**(Nov.), 1783–1816. pages 349
- 7704 Leemis, Lawrence M., and McQueston, Jacquelyn T. 2008. Univariate Distribution
7705 Relationships. *The American Statistician*, **62**(1), 45–53. pages 208, 211
- 7706 Lehmann, Erich L., and Romano, Joseph P. 2005. *Testing Statistical Hypotheses*.
7707 Springer. pages 221
- 7708 Lehmann, Erich Leo, and Casella, George. 1998. *Theory of Point Estimation*. Springer.
7709 pages 214, 215, 225, 273
- 7710 Liesen, Jörg, and Mehrmann, Volker. 2015. *Linear Algebra*. Springer. pages 20, 37, 65
- 7711 Ljung, Lennart. 1999. *System Identification: Theory for the User*. Prentice Hall. pages
7712 277
- 7713 Loosli, Gaëlle, Canu, Stéphane, and Ong, Cheng S. 2016. Learning SVM in Krein
7714 Spaces. *IEEE Transactions of Pattern Analysis and Machine Intelligence*, **38**(6), 1204–
7715 1216. pages 397
- 7716 Luenberger, David G. 1969. *Optimization by Vector Space Methods*. Wiley. pages 251
- 7717 Maaløe, Lars, Sønderby, Casper Kaae, Søren K, Sønderby, and Winther, Ole. 2016.
7718 Auxiliary Deep Generative Models. In: *Proceedings of the International Conference*
7719 *on Machine Learning*. pages 280
- 7720 MacKay, David J. C. 2003. *Information Theory, Inference, and Learning Algorithms*.
7721 Cambridge University Press. pages 2, 173, 189, 225, 226, 287, 346, 370
- 7722 MacKay, David J. C. 1992. Bayesian Interpolation. *Neural Computation*, **4**, 415–447.
7723 pages 287
- 7724 MacKay, David J. C. 1998. Introduction to Gaussian Processes. Pages 133–165 of:
7725 *Neural Networks and Machine Learning*, vol. 168. Berlin, Germany: Springer. pages
7726 318
- 7727 Magnus, Jan R., and Neudecker, Heinz. 2007. *Matrix Differential Calculus with Appli-*
7728 *cations in Statistics and Econometrics*. 3rd edn. Wiley. pages 173
- 7729 Manton, Jonathan H., and Amblard, Pierre-Olivier. 2015. A Primer on Reproducing
7730 Kernel Hilbert Spaces. *Foundations and Trends in Signal Processing*, **8**(1–2), 1–126.
7731 pages 397
- 7732 Markovskiy, Ivan. 2011. *Low Rank Approximation: Algorithms, Implementation, Appli-*
7733 *cations*. Springer. pages 139
- 7734 Maybeck, Peter S. 1979. *Stochastic Models, Estimation, and Control*. Mathematics in
7735 Science and Engineering, vol. 141. Academic Press, Inc. pages 173, 277
- 7736 McCullagh, Peter, and Nelder, John A. 1989. *Generalized Linear Models*. 2nd edn. CRC
7737 Press. pages 274
- 7738 McEliece, Robert J., MacKay, David J. C., and Cheng, Jung-Fu. 1998. Turbo Decoding
7739 as an Instance of Pearl’s “Belief Propagation” Algorithm. *IEEE Journal on Selected*
7740 *Areas in Communications*, **16**(2), 140–152. pages 285
- 7741 Meyer, Carl D. 2000. *Matrix Analysis and Applied Linear Algebra*. Vol. 71. SIAM. pages
7742 108
- 7743 Mika, Sebastian, Rätsch, Gunnar, Weston, Jason, Schölkopf, Bernhard, and Müller,
7744 Klaus-Robert. 1999. Fisher Discriminant Analysis with Kernels. *Neural Networks*
7745 *for Signal Processing*, **IX**, 41–48. pages 138
- 7746 Minka, Thomas P. 2001a. *A Family of Algorithms for Approximate Bayesian Inference*.
7747 Ph.D. thesis, Massachusetts Institute of Technology. pages 276
- 7748 Minka, Tom. 2001b. Automatic Choice of Dimensionality of PCA. In: *Advances in*
7749 *Neural Information Processing Systems*. pages 348
- 7750 Mitchell, Tom. 1997. *Machine Learning*. McGraw Hill. pages 13, 266

- 7751 Mnih, Volodymyr, Kavukcuoglu, Koray, Silver, David, Rusu, Andrei A., Veness, Joel,
7752 Bellemare, Marc G., Graves, Alex, Riedmiller, Martin, Fidjeland, Andreas K., Ostro-
7753 vski, Georg, Petersen, Stig, Beattie, Charles, Sadik, Amir, Antonoglou, Ioannis, King,
7754 Helen, Kumaran, Dhharshan, Wierstra, Daan, Legg, Shane, and Hassabis, Demis.
7755 2015. Human-Level Control through Deep Reinforcement Learning. *Nature*, **518**,
7756 529–533. pages 237
- 7757 Moonen, Marc, and De Moor, Bart. 1995. *SVD and Signal Processing, III: Algorithms,*
7758 *Architectures and Applications*. Elsevier. pages 139
- 7759 Moustaki, Irini., Knott, Martin., and Bartholomew, David. J. 2015. *Latent-Variable*
7760 *Modeling*. American Cancer Society. Pages 1–10. pages 277, 278, 279
- 7761 Müller, Andreas C., and Guido, Sarah. 2016. *Introduction to Machine Learning with*
7762 *Python: A Guide for Data Scientists*. O'Reilly Publishing. pages 2
- 7763 Murphy, Kevin P. 2012. *Machine Learning: A Probabilistic Perspective*. Cambridge, MA,
7764 USA: MIT Press. pages 2, 173, 203, 211, 226, 276, 277, 278, 279, 287, 289, 317,
7765 335, 348, 365, 370, 397
- 7766 Neal, Radford M. 1996. *Bayesian Learning for Neural Networks*. Ph.D. thesis, Depart-
7767 ment of Computer Science, University of Toronto. pages 318
- 7768 Neal, Radford M., and Hinton, Geoffrey E. 1999. A View of the EM Algorithm that
7769 Justifies Incremental, Sparse, and Other Variants. Pages 355–368 of: *Learning in*
7770 *Graphical Models*. MIT Press. pages 363
- 7771 Nelsen, Roger. 2006. *An Introduction to Copulas*. Springer. pages 221
- 7772 Nesterov, Yuri. 2018. *Lectures on Convex Optimization*. Springer. pages 250, 251
- 7773 Neumaier, Arnold. 1998. Solving Ill-Conditioned and Singular Linear Systems: A Tu-
7774 torial on Regularization. *SIAM Review*, **40**, 636–666. pages 268
- 7775 Nocedal, Jorge, and Wright, Stephen J. 2006. *Numerical Optimization*. Springer. pages
7776 167, 250, 396
- 7777 Nowozin, Sebastian, Gehler, Peter V., Jancsary, Jeremy, and Lampert, Christoph H.
7778 (eds). 2014. *Advanced Structured Prediction*. MIT Press. pages 285
- 7779 O'Hagan, Anthony. 1991. Bayes-Hermite Quadrature. *Journal of Statistical Planning*
7780 *and Inference*, **29**, 245–260. pages 289
- 7781 Ong, Cheng S., Mary, Xavier, Canu, Stéphane, and Smola, Alexander J. 2004. Learn-
7782 ing with Non-positive Kernels. Pages 639–646 of: *Proceedings of the International*
7783 *Conference on Machine Learning*. pages 397
- 7784 Ormonoit, Dirk, Sidenbladh, Hedvig, Black, Michael J., and Hastie, Trevor. 2001.
7785 Learning and Tracking Cyclic Human Motion. In: *Advances in Neural Information*
7786 *Processing Systems*. pages 139
- 7787 Page, Lawrence, Brin, Sergey, Motwani, Rajeev, and Winograd, Terry. 1999. *The PageR-*
7788 *ank Citation Ranking: Bringing Order to the Web*. Tech. rept. Stanford InfoLab. pages
7789 113, 336
- 7790 Paquet, Ulrich. 2008. *Bayesian Inference for Latent Variable Models*. Ph.D. thesis, Uni-
7791 versity of Cambridge. pages 277, 278, 279
- 7792 Parzen, Emanuel. 1962. On Estimation of a Probability Density Function and Mode.
7793 *The Annals of Mathematical Statistics*, **33**(3), 1065–1076. pages 371
- 7794 Pearl, Judea. 1988. *Probabilistic Reasoning in Intelligent Systems: Networks of Plausible*
7795 *Inference*. Morgan Kaufmann. pages 176, 283
- 7796 Pearl, Judea. 2009. *Causality: Models, Reasoning and Inference*. 2nd edn. Cambridge
7797 University Press. pages 281, 285
- 7798 Pearson, Karl. 1895. Contributions to the Mathematical Theory of Evolution. II. Skew
7799 Variation in Homogeneous Material. *Philosophical Transactions of the Royal Society*
7800 *A: Mathematical, Physical and Engineering Sciences*, **186**, 343–414. pages 371
- 7801 Pearson, Karl. 1901. On Lines and Planes of Closest Fit to Systems of Points in Space.
7802 *Philosophical Magazine*, **2**(11), 559–572. pages 83, 96, 138, 319, 329

- 7803 Peters, Jonas, Janzing, Dominik, and Schölkopf, Bernhard. 2017. *Elements of Causal*
7804 *Inference: Foundations and Learning Algorithms*. MIT Press. pages 285
- 7805 Petersen, K. B., and Pedersen, M. S. 2012 (nov). *The Matrix Cookbook*. Tech. rept.
7806 Technical University of Denmark. Version 20121115. pages 161
- 7807 Pollard, David. 2002. *A User's Guide to Measure Theoretic Probability*. Cambridge
7808 University Press. pages 225
- 7809 Polyak, Roman A. 2016. The Legendre Transformation in Modern Optimization. Pages
7810 437–507 of: *Optimization and Its Applications in Control and Data Sciences*. Springer.
7811 pages 251
- 7812 Press, William H., Teukolsky, Saul A., Vetterling, William T., and Flannery, Brian P.
7813 2007. *Numerical Recipes: The Art of Scientific Computing*. 3rd edn. Cambridge Uni-
7814 versity Press. pages 130, 138
- 7815 Proschan, Michael A., and Presnell, Brett. 1998. Expect the Unexpected from Condi-
7816 tional Expectation. *American Statistician*, **52**(3), 248–252. pages 225
- 7817 Ranganath, Rajesh, Tran, Dustin, and Blei, David M. 2016. Hierarchical Variational
7818 Models. In: *Proceedings of the International Conference on Machine Learning*. pages
7819 280
- 7820 Raschka, Sebastian, and Mirjalili, Vahid. 2017. *Python Machine Learning: Machine*
7821 *Learning and Deep Learning with Python, scikit-learn, and TensorFlow*. Packt Publish-
7822 ing. pages 2
- 7823 Rasmussen, Carl E., and Ghahramani, Zoubin. 2001. Occam's Razor. In: *Advances in*
7824 *Neural Information Processing Systems*. pages 290
- 7825 Rasmussen, Carl E., and Ghahramani, Zoubin. 2003. Bayesian Monte Carlo. In: *Ad-*
7826 *vances in Neural Information Processing Systems*. pages 289
- 7827 Rasmussen, Carl E., and Williams, Christopher K. I. 2006. *Gaussian Processes for Ma-*
7828 *chine Learning*. Cambridge, MA, USA: MIT Press. pages 95, 203, 226, 318, 393
- 7829 Reid, Mark, and Williamson, Robert C. 2011. Information, Divergence and Risk for
7830 Binary Experiments. *Journal of Machine Learning Research*, **12**, 731–817. pages 398
- 7831 Rezende, Danilo J., and Mohamed, Shakir. 2015. Variational Inference with Normal-
7832 izing Flows. In: *Proceedings of the International Conference on Machine Learning*.
7833 pages 225
- 7834 Rifkin, Ryan M., and Lippert, Ross A. 2007. Value Regularization and Fenchel Duality.
7835 *Journal of Machine Learning Research*, **8**, 441–479. pages 397
- 7836 Rockafellar, R. Tyrrell. 1970. *Convex Analysis*. Princeton University Press. pages 251
- 7837 Rogers, Simon, and Girolami, Mark. 2016. *A First Course in Machine Learning*. 2nd
7838 edn. Chapman and Hall/CRC. pages 2, 369
- 7839 Rosenbaum, Paul R. 2017. *Observation & Experiment: An Introduction to Causal Infer-*
7840 *ence*. Harvard University Press. pages 285
- 7841 Rosenblatt, Murray. 1956. Remarks on Some Nonparametric Estimates of a Density
7842 Function. *The Annals of Mathematical Statistics*, **27**(3), 832–837. pages 371
- 7843 Roweis, Sam, and Ghahramani, Zoubin. 1999. A Unifying Review of Linear Gaussian
7844 Models. *Neural Computation*, **11**(2), 305–345. pages 203, 370
- 7845 Roweis, Sam T. 1998. EM Algorithms for PCA and SPCA. Pages 626–632 of: *Advances*
7846 *in Neural Information Processing Systems*. pages 347
- 7847 Roy, Anindya, and Banerjee, Sudipto. 2014. *Linear Algebra and Matrix Analysis for*
7848 *Statistics*. Chapman and Hall/CRC. pages 120
- 7849 Rubinstein, Reuven Y., and Kroese, Dirk P. 2016. *Simulation and the Monte Carlo*
7850 *Method*. Vol. 10. Wiley. pages 138
- 7851 Ruffini, Paolo. 1799. *Teoria Generale delle Equazioni, in cui si Dimostra Impossibile la*
7852 *Soluzione Algebraica delle Equazioni Generali di Grado Superiore al Quarto*. Stampe-
7853 ria di S. Tommaso d'Aquino. pages 336

- 7854 Rumelhart, David E., Hinton, Geoffrey E., and Williams, Ronald J. 1986. Learning
7855 Representations by Back-propagating Errors. *Nature*, **323**(6088), 533–536. pages
7856 162, 234
- 7857 Sæmundsson, Steindór, Hofmann, Katja, and Deisenroth, Marc P. 2018. Meta Rein-
7858 forcement Learning with Latent Variable Gaussian Processes. In: *Proceedings of the*
7859 *Conference on Uncertainty in Artificial Intelligence*. pages 277
- 7860 Saitoh, Saburo. 1988. *Theory of Reproducing Kernels and its Applications*. Longman
7861 Scientific & Technical. pages 393, 397
- 7862 Salimans, Tim, Kingma, Diederik P., and Welling, Max. 2015. Markov Chain Monte
7863 Carlo and Variational Inference: Bridging the Gap. In: *Proceedings of the Interna-*
7864 *tional Conference on Machine Learning*. pages 280
- 7865 Schölkopf, Bernhard, and Smola, Alexander J. 2002. *Learning with Kernels—Support*
7866 *Vector Machines, Regularization, Optimization, and Beyond*. MIT Press. pages 95,
7867 318, 349, 378, 389, 392, 393, 397
- 7868 Schölkopf, Bernhard, Smola, Alexander J., and Müller, Klaus-Robert. 1997. Kernel
7869 Principal Component Analysis. In: *Proceedings of the International Conference on*
7870 *Artificial Neural Networks*. Springer. pages 95
- 7871 Schölkopf, Bernhard, Smola, Alexander J., and Müller, Klaus-Robert. 1998. Nonlinear
7872 Component Analysis as a Kernel Eigenvalue Problem. *Neural Computation*, **10**(5),
7873 1299–1319. pages 349
- 7874 Schölkopf, Bernhard, Herbrich, Ralf, and Smola, Alexander J. 2001. A Generalized
7875 Representer Theorem. In: *Proceedings of the International Conference on Computa-*
7876 *tional Learning Theory*. pages 387
- 7877 Schwartz, Laurent. 1964. Sous espaces Hilbertiens d'espaces vectoriels topologiques
7878 et noyaux associés. *Journal d'Analyse Mathématique*, **13**, 115–256. in French. pages
7879 397
- 7880 Schwarz, Gideon E. 1978. Estimating the Dimension of a Model. *Annals of Statistics*,
7881 **6**(2), 461–464. pages 290
- 7882 Shahriari, Bobak, Swersky, Kevin, Wang, Ziyu, Adams, Ryan P., and De Freitas, Nando.
7883 2016. Taking the Human out of the Loop: A Review of Bayesian Optimization.
7884 *Proceedings of the IEEE*, **104**(1), 148–175. pages 276
- 7885 Shalev-Shwartz, Shai, and Ben-David, Shai. 2014. *Understanding Machine Learning:*
7886 *From Theory to Algorithms*. Cambridge University Press. pages 2, 181, 268, 378
- 7887 Shawe-Taylor, John, and Cristianini, Nello. 2004. *Kernel Methods for Pattern Analysis*.
7888 Cambridge University Press. pages 392, 397
- 7889 Shawe-Taylor, John, and Sun, Shiliang. 2011. A Review of Optimization Methodologies
7890 in Support Vector Machines. *Neurocomputing*, **74**(17), 3609–3618. pages 396
- 7891 Shental, O., Bickson, D., P. H. Siegel and, J. K. Wolf, and Dolev, D. 2008. Gaussian
7892 Belief Propagation Solver for Systems of Linear Equations. In: *Proceedings of the*
7893 *International Symposium on Information Theory*. pages 285
- 7894 Shewchuk, Jonathan R. 1994. *An Introduction to the Conjugate Gradient Method With-*
7895 *out the Agonizing Pain*. pages 250
- 7896 Shi, Jianbo, and Malik, Jitendra. 2000. Normalized Cuts and Image Segmentation.
7897 *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **22**(8), 888–905.
7898 pages 138
- 7899 Shi, Qinfeng, Petterson, James, Dror, Gideon, Langford, John, Smola, Alex, and Vish-
7900 wanathan, S.V.N. 2009. Hash Kernels for Structured Data. *Journal of Machine*
7901 *Learning Research*, 2615–2637. pages 393
- 7902 Shiriyayev, A. N. 1984. *Probability*. Springer. pages 225
- 7903 Shor, Naum Z. 1985. *Minimization Methods for Non-differentiable Functions*. Springer.
7904 pages 250

- 7905 Shotton, Jamie, Winn, John, Rother, Carsten, and Criminisi, Antonio. 2006. Texton-
7906 Boost: Joint Appearance, Shape and Context Modeling for Mult-Class Object Recog-
7907 nition and Segmentation. In: *Proceedings of the European Conference on Computer*
7908 *Vision*. pages 285
- 7909 Smith, Adrian F. M., and Spiegelhalter, David. 1980. Bayes Factors and Choice Criteria
7910 for Linear Models. *Journal of the Royal Statistical Society B*, **42**(2), 213–220. pages
7911 287
- 7912 Snoek, Jasper, Larochelle, Hugo, and Adams, Ryan P. 2012. Practical Bayesian Opti-
7913 mization of Machine Learning Algorithms. In: *Advence in Neural Information Pro-*
7914 *cessing Systems*. pages 276
- 7915 Spearman, Charles. 1904. “General Intelligence,” Objectively Determined and Mea-
7916 sured. *American Journal of Psychology*, **15**(2), 201–292. pages 348
- 7917 Steinwart, Ingo. 2007. How to Compare Different Loss Functions and Their Risks.
7918 *Constructive Approximation*, **26**, 225–287. pages 397
- 7919 Steinwart, Ingo, and Christmann, Andreas. 2008. *Support Vector Machines*. Springer.
7920 pages 372, 376, 378, 383, 397
- 7921 Stoer, Josef, and Burlirsch, Roland. 2002. *Introduction to Numerical Analysis*. Springer.
7922 pages 37, 65, 95, 289
- 7923 Strang, Gilbert. 1993. The Fundamental Theorem of Linear Algebra. *The American*
7924 *Mathematical Monthly*, **100**(9), 848–855. pages 120
- 7925 Strang, Gilbert. 2003. *Introduction to Linear Algebra*. 3rd edn. Wellesley-Cambridge
7926 Press. pages 20, 37, 65, 81, 316
- 7927 Stray, Jonathan. 2016. *The Curious Journalist’s Guide to Data*. Tow Center for Digital
7928 Journalism at Columbia’s Graduate School of Journalism. pages 256
- 7929 Strogatz, Steven. 2014. Writing about Math for the Perplexed and the Traumatized.
7930 *Notices of the American Mathematical Society*, **61**(3), 286–291. pages 2
- 7931 Sucar, Luis E., and Gillies, Duncan F. 1994. Probabilistic Reasoning in High-Level
7932 Vision. *Image and Vision Computing*, **12**(1), 42–60. pages 285
- 7933 Szeliski, Richard, Zabih, Ramin, Scharstein, Daniel, Veksler, Olga, Kolmogorov,
7934 Vladimir, Agarwala, Aseem, Tappen, Marshall, and Rother, Carsten. 2008. A Com-
7935 parative Study of Energy Minimization Methods for Markov Random Fields with
7936 Smoothness-based Priors. *IEEE Transactions on Pattern Analysis and Machine Intelli-*
7937 *gence*, **30**(6), 1068–1080. pages 285
- 7938 Tandra, Haryono. 2014. The Relationship Between the Change of Variable Theorem
7939 and The Fundamental Theorem of Calculus for the Lebesgue Integral. *Teaching of*
7940 *Mathematics*, **17**(2), 76–83. pages 221
- 7941 Tenenbaum, Joshua B., De Silva, Vin, and Langford, John C. 2000. A Global Geometric
7942 Framework for Nonlinear Dimensionality Reduction. *Science*, **290**(5500), 2319–
7943 2323. pages 138
- 7944 Tibshirani, Robert. 1996. Regression Selection and Shrinkage via the Lasso. *Journal*
7945 *of the Royal Statistical Society B*, **58**(1), 267–288. pages 305, 318
- 7946 Tipping, Michael E., and Bishop, Christopher M. 1999. Probabilistic Principal Com-
7947 ponent Analysis. *Journal of the Royal Statistical Society: Series B*, **61**(3), 611–622.
7948 pages 203, 342, 346, 347
- 7949 Titsias, Michalis K., and Lawrence, Neil D. 2010. Bayesian Gaussian Process Latent
7950 Variable Model. In: *Proceedings of the International Conference on Artificial Intelli-*
7951 *gence and Statistics*. JMLR W&CP, vol. 9. pages 349
- 7952 Toussaint, Marc. 2012. *Some Notes on Gradient Descent*. pages 233, 250
- 7953 Trefethen, Lloyd N., and Bau III, David. 1997. *Numerical Linear Algebra*. Vol. 50. SIAM.
7954 pages 139, 233
- 7955 Tucker, Ledyard R. 1966. Some Mathematical Notes on Three-mode Factor Analysis.
7956 *Psychometrika*, **31**(3), 279–311. pages 139
- 7957 Vapnik, Vladimir N. 1998. *Statistical Learning Theory*. Wiley. pages 268

- 7958 Vapnik, Vladimir N. 1999. An Overview of Statistical Learning Theory. *IEEE Transactions on Neural Networks*, **10**(5), 988–999. pages 268
- 7959 Vapnik, Vladimir N. 2000. *The Nature of Statistical Learning Theory*. Springer. pages 378, 397
- 7962 Vishwanathan, S.V.N., Schraudolph, Nicol N., Kondor, Risi, and Borgwardt, Karsten M. 2010. Graph Kernels. *Journal of Machine Learning Research*, **11**, 1201–1242. pages 393
- 7963 von Luxburg, Ulrike, and Schölkopf, Bernhard. 2011. Statistical Learning Theory: Models, Concepts, and Results. Pages 651–706 of: *Handbook of the History of Logic*, vol. 10. Elsevier. pages 268
- 7964 von Luxburg, Ulrike, and Schölkopf, Bernhard. 2011. Statistical Learning Theory: Models, Concepts, and Results. Pages 651–706 of: *Handbook of the History of Logic*, vol. 10. Elsevier. pages 268
- 7965 Wahba, Grace. 1990. *Spline Models for Observational Data*. Society for Industrial and Applied Mathematics. pages 397
- 7966 Walpole, Ronald E., Myers, Raymond H., Myers, Sharon L., and Ye, Keying. 2011. *Probability & Statistics for Engineers & Scientists*. 9th edn. Prentice Hall. pages 179, 225
- 7967 Wasserman, Larry. 2004. *All of Statistics*. Springer. pages 219
- 7968 Wasserman, Larry. 2007. *All of Nonparametric Statistics*. Springer. pages 214
- 7969 Whittle, Peter. 2000. *Probability via Expectation*. Springer. pages 191, 225
- 7970 Wickham, Hadley. 2014. Tidy Data. *Journal of Statistical Software*, **59**. pages 256
- 7971 Williams, Christopher K. I. 1997. Computing with Infinite Networks. In: *Advances in Neural Information Processing Systems*. pages 318
- 7972 Yu, Yaoliang, Cheng, Hao, Schuurmans, Dale, and Szepesvári, Csaba. 2013. Characterizing the Representer Theorem. In: *Proceedings of the International Conference on Machine Learning*. pages 387
- 7973 Zhang, Haizhang, Xu, Yuesheng, and Zhang, Jun. 2009. Reproducing Kernel Banach Spaces for Machine Learning. *Journal of Machine Learning Research*, **10**, 2741–2775. pages 397
- 7974 Zia, Royce K. P., Redish, Edward F., and McKay, Susan R. 2009. Making Sense of the Legendre Transform. *American Journal of Physics*, **77**(614). pages 251
- 7975 Zia, Royce K. P., Redish, Edward F., and McKay, Susan R. 2009. Making Sense of the Legendre Transform. *American Journal of Physics*, **77**(614). pages 251