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Literatura

- [1] Wiener, N.: The Extrapolation, Interpolation and Smoothing of Stationary Time Series. New York, John Wiley, 1949.
- [2] Kalman, R.E.: New Results in Linear Filtering and Prediction Theory. Trans. ASME, J. Basic Eng. 83D, 1960 s. 35-45.
- [3] Kushner, H.J.: Approximation to optimal non-linear filters. IEEE Trans. on Automatic Control, 12, 1967, s. 546-556.
- [4] Jazwinski, A.H.: Stochastic processes and filtering theory, New York, Academic Press 1970, 376 s.
- [5] Sage, A.P.-Melsa, J.L.: Estimation Theory with Applications to Communications and Control. New York, Mc Graw - Hill 1971, 529 s.
- [6] Proceedings of First Symposium on Nonlinear Estimation Theory and Its Applications. San Diego, 1970.
- [7] Proceedings of Second Symposium on Nonlinear Estimation Theory and Its Applications. San Diego, 1971.
- [8] Ahlén, A.-Sternad, M.: Wiener Filter Design Using Polynomial Equation. Uppsala University, UPTEC 90057R, 1990.
- [9] Havlena, V.-Štecha, J.: Moderní teorie řízení. Skriptum ČVUT Praha, 1994, 289.
- [10] Anderson, B.-Moore J.: Optimal Filtering. Prentice Hall, 1979, 354 s.
- [11] Chui, C.K.-Chen, G.: Kalman Filtering with Real-Time Applications. Second Edition, Springer Verlag, 1990, 192 s.
- [12] Söderström, T.: Discrete-time stochastic systems: Estimation & Control. Prentice Hall, London, 1994, 333.
- [13] Aoki, M.: State Space Modeling of Time Series. Springer Verlag, Berlin, Heidelberg, 1987, 311 s.
- [14] Sorenson, H.W.: On the development of practical nonlinear filters. In: D.G. Lainiotis (Ed.), Estimation Theory. American Elsevier, New York, 1974.

- [15] Šimandl, M.-Mošna, J.: Analytický přístup k řešení bayesovských vztahů. In: Sborník semináře kateder kybernetiky a automatizace ČSSR, ČSVTS Plzeň, 1988.
- [16] Sorenson, H.W.: Parameter Estimation. Marcel Dekker, New York, 1980, 382 s.
- [17] Schweppe, F.C.: Uncertain Dynamic Systems. Prentice Hall, Engelwood Cliffs, NJ, 1968.
- [18] Milanese, M.-Vicino, A.: Optimal Estimation Theory for Dynamic Systems with Set Members Ship Uncertainty. Automatica, Vol. 27, 1991, 997-1009.
- [19] Žampa, P.: Teorie kauzálních systémů, GR 140, KKY, ZČU v Plzni, 1992.
- [20] Průcha, J.-Šimandl, M.-Škarda, Z.: The Kalman Filter Approach to Improve of Surface Temperature Diagnostic for Plasma Sprayed Particles. In: Acta Technica ČSAV, Academia, 1991.
- [21] Brockwell, P.J.-Davis, R.A.: Time Series: Theory and Methods. Springer Verlag, 1991, 577 s.
- [22] Ng, C.N.-Young, P.C.: Recursive Estimation and Forecasting of Non-stationary Time Series. Journal of Forecasting, Vol. 9, 1990, 173-204.
- [23] Strejc, V.: Stavová teorie lineárního diskrétního řízení, Academia, Praha 1978, 374 s.
- [24] Aström, K.J.: Introduction to Stochastic Control Theory. Prentice Hall Press 1970, 299s.
- [25] Kubík, S.-Kotek, Z.-Strejc, V.-Štecha, J.: Teorie automatického řízení I. SNTL, Praha, 1982, 522s.
- [26] Box, G.-Jenkins, G.: The Series Analysis Forecasting and Control. Holden-Day, San Francisco, 533s.
- [27] Widrow, B.-Stearns, S.D.: Adaptive Signal Processing. Prentice Hall, London, 474s.
- [28] Ljung, L.-Söderström, T.: Theory and Practice of Recursive Identification. MIT Press, Cambridge, 1983.
- [29] Spall, J.C.: Bayesian Analysis of Time Series and Dynamic Models. Marcel Dekker, New York, 1988.
- [30] Šimandl, M.: Adaptivní systémy. ZČU v Plzni. Skripta, 1993, 138s.
- [31] Šimandl, M.: Využití některých identifikačních metod v praxi. In: Technická kybernetika a biokybernetika. ČSVTS-FEL-ČVUT, Temešvár, 1991, 18-28.
- [32] Beneš, J.-Žampa, P.: Stochatické systémy a jejich řízení. ČVUT Praha, Skripta, 1976, 201s.
- [33] Hrušák, J.-Mošna, J.-Janeček, E.-Šimandl, M.: A New Adaptive Controller for Cold Rolling Mills. In: Proc. of IFAC/IFIP Symposium on Real Time Digital Control Application, Guadalajara, Mexico, 1983, Oxford, England: Pergamon, 1984, 69-74.

- [34] Hrušák, J.-Mošna, J.-Janeček, E.-Šimandl, M.: Strip-Thickness Adaptive Control for Cold-Rolling Mills. *Problems of Control and Information Theory*, 11, No 6, 1982, 455-464.
- [35] Šimandl, M.: *Teorie a aproximační algoritmy bayesovské filtrace*. KKY, VŠSE v Plzni, 1982, 71s.
- [36] Krebs, V.: *Nichtlienare Filtering*. Oldenbourg, München, 1980.
- [37] Štecha, J.: Parameter Estimation in Nonlinear Economic Models. In: *Modern Control Theory. International Summer School '92*. UTIA Prague and Czech Technical University, Prague 1992.
- [38] Zellner, A.: Bayesian econometrics. *Econometrica*. Vol. 53, No. 2, March 1985, 253-269.
- [39] Alspach, D.L.-Sorenson, H.W.: Approximation of Density Function by a Sum of Gaussians for Nonlinear Bayesian Estimation. In: *Proceedings of the 1st Symposium on Nonlinear Estimation Theory*, San Diego, 1970.
- [40] Sorenson, H.W.-Alspach, D.L.: Recursive Bayesian Using Gaussian Sums. *Automatica*, Vol. 7, 1971, 465-479.
- [41] Magil, D.T.: Optimal adaptive estimation of sampled stochastic processes. *IEEE Trans. Automatic Control*, Vol. AC-10, Oct. 1965, 434-439.
- [42] Lainiotis, D.G.: Partitioning - A Unifying Framework for Adaptive Systems, In: *Estimation. Proc. of the IEEE*, 64, No. 8, 1976, 1126-1143.
- [43] Sorenson, H.W.: *An Overview of Filtering and Stochastic Control in Dynamic Systems. Advances in Theory and Applications*. C.T. Leondes, New York, Academic Press, 1976, 1-61.
- [44] Šimandl, M.: *Nonlinear Filtering: Set Approach*. Uppsala University, Uppsala, UPTEC 8458R, 1984.
- [45] Hrušák, J.-Mošna, J.- Šimandl M.: Nonlinear Filtering: System Set Representation. In: *Preprints of 10th World Congress IFAC*, München, 1987.
- [46] Mošna, J.-Šimandl, M.: Číslicové monitorovací systémy a bayesovská filtrace. In: *Sborník semináře kateder kybernetiky a automatizace ČSSR, ČSVTS Plzeň*, 1988.
- [47] Mošna, J.-Šimandl, M.: Bayesovská filtrace a množinová reprezentace systému. *Automatizace*, SNTL Praha, 37, č. 7, 1989, 182-184.
- [48] Lo, J.T.: Finite - dimensional sensor orbits and optimal nonlinear filtering. *IEEE Trans. Inform. Theory*, IT18, 1972.
- [49] Bultas, M.: *Aproximační metody nelineární filtrace*. Diplomová práce. KKY VŠSE v Plzni 1983.
- [50] Šimandl, M.-Prantner, V.: *Zobecněný rozšířený Kalmanův filtr*. Rukopis VZ, KKY, VŠSE v Plzni. 1988.
- [51] Alspach, D.L.-Sorenson, H.W.: Nonlinear Bayesian Estimation Using Gaussian Sum Approximations. *Trans. on Automatic Control*, Vol. AC-17, No. 4, August 1972.

- [52] Šimandl, M.: Syntéza algoritmů nelineární estimace pro aplikace v reálném čase. Kand. dis. práce, KKY, VŠSE v Plzni, 1986.
- [53] Alspach, D.L.: Dual Control on Approximate Aposteriori Density Functions. IEEE Trans. on Automatic Control, October 1972.
- [54] Dajani, M.Z.-Campion, G.: Closed loop control design for nonlinear nonquadratic systems. In: Proc. of the IEEE Conference on Decision and Control. San Diego, 1973, 82-87.
- [55] Namera, T.-Stubberund, A.: Gaussian Sum Approximation for Nonlinear Fixed Point Prediction. Int. J. Control, Vol. 38, No. 5, 1983, 1047-1053.
- [55] Lainiotis, D.G.: Partitioning: A Unifying Framework for Adaptive Systems II. Control. Proceedings of the IEEE 64, 1976, 1182-1198.
- [56] Kárný, M.-Hangos, K.H.: Approximation of the Bayes rule. In: Preprints of the 7th IFAC/IFORS Symposium on Identification and System Parameter Estimation, York, England, Vol. 1, 1985, 785-990.
- [57] Kulhavý, R.: A Bayes-closed approximation of recursive nonlinear estimation. Int. J. Adaptive Control and Signal Processing, 4, 1990, 271-285.
- [58] Kulhavý, R.: Differential geometry of recursive nonlinear estimation. In: Preprints of the 11th IFAC World Congress, Tallin, Estonia, Vol. 3, 1990, 113-118.
- [59] Kulhavý, R.: Recursive nonlinear estimation: geometry of a space of posterior densities. Automatica, 28, 1992, 313-323.
- [60] Šimandl, M.-Mošna, J.: Nelineární estimátor pro lineární negaussovský systém. In: Automatická regulace a logické řízení 87. ČSVTS Škoda Plzeň, Žinkovy. 1987.
- [61] Šimandl, M.-Mošna, J.: Detekce chyby a nelineární filtrace. In: Automatická regulace a logické řízení 89. ČSVTS Škoda Plzeň, Žinkovy, 1989.
- [62] Šimandl, M.: State Estimation for Nongaussian models. VZ, KKY, ZČU v Plzni, 1992.
- [63] Kárný, M.: Lokální filtr necitlivý k hrubým chybám měření. In: ASŘ TP '90 Automatizácia a systémy riadenia technologických procesov. ČSVTS, Ústav racionalizace průmyslu, Žilina, 1990, 141-144.
- [64] Tanaka, M.-Kalayana, T.: Identification and Smoothing for Linear System with Outliers and Missing Data. In: Preprints of World Congress IFAC, Vol. 3, Tallin, 1990.
- [65] Šrubař, P.: Negaussovské modelování a odhad stavu. Dipl. práce, KKY, ZČU v Plzni, 1992.
- [66] Šonka, M.: Zapomínání při odhadu časově proměnných parametrů. Dipl. práce. KKY ZČU v Plzni. 1992.
- [67] Kulhavý, R.-Kárný, M.: Tracking of Slowly varying Parameters by Directional Forgetting. In: Preprints of 9th World Congress IFAC, Budapest, 1984, 687-692.

- [68] Parkum, J.E.-Poulsen, N.K.-Holst, J.: Selective Forgetting in Adaptive Procedures. In: Preprints of 11th World Congress IFAC, Tallin, 1991, 180-186.
- [69] Löhnberg, P.-Stienstta, A.: Time Varying Parameter Estimation Combining Directional and Uniform Forgetting. In: Preprints of 11th World Congress IFAC, Tallin, 1991, 232-237.
- [70] Benveniste, A.-Basseville, M.-Moustakides, G.: Modelling and Monitoring of Changes in Dynamical Systems. In: Proceedings of 25th Conference on Decision and Control. Athens, Grece, December 1986, 776-782.
- [71] Campo, L.-Bar-Shalom, Y.: A New Controller for Discrete-Time Stochastic Systems with Markovian Jump Parameters. In: Preprints of World Congress IFAC, Vol. 3, Tallin, 1990.
- [72] Ljung, L.: Optimal and ad hoc Adaption Mechanismus. In: Proceedings ECC 91, European Control Conference, Grenoble, France, July 1-5, 1991, 2013-2020.
- [73] Häggglund, T.: New Estimation Techniques for Adaptive Control. Dissertation, Lund University, 1983.
- [74] Chrástecký,: Detekce poruch v dynamických systémech. Dipl. práce, KKY, ZČU v Plzni, 1992.
- [75] Zhang, X.J.: Auxiliary Signal Design in Fault Detection and Diagnosis. Springer Verlag, Berlin, 1989.
- [76] Aström, K.J.-Wittenmark, B.: Adaptive Control. Addison-Wesley. New York, 1989.
- [77] Aström, K.J.: Intelligent Control. In: Proceedings of ECC 91, European Control Conference, Grenoble, France, July 2-5, 1991, 2328-2339.
- [78] Kárný, M.-Halousková, A.-Böhm, J.-Kulhavý, R.-Nedoma, P.: Design of linear quadratic adaptive control: theory and algorithms for practice. Kybernetika, Příloha k číslům 3,4,5,6, Vol. 21, 1985.
- [79] Wenk, C.J.-Bar-Shalom, Y.: A Multiple Model Adaptive Dual Control Algorithm for Stochastic Systems with Unknown Parameters. IEEE Transactions on Automatic Control, Vol. AC-25, No. 4, Aug. 1980.
- [80] Qi, Xiao-Jiang: A multi-model adaptive predictor for stochastic processes with Markov switching parameters. Int. J. Control, Vol. 43, No. 5, 1986, 1453-1463.
- [81] Chizech, H.J.-Wilski, A.S.-Castanon, D.: Discrete time markovian-jump linear quadratic optimal control, Int. J. Control, Vol. 43, No. 1, 1986, 213-231.
- [82] Kučera, V.: Algebraická teorie diskrétního řízení. Academia, Praha, 1978.
- [83] Lewis, F.L.: Optimal Estimation. John Wiley, New York, 1986.
- [84] Šimandl, M.: Kauzální stochastické systémy a odhad stavu. Výzkumná zpráva, ZČU KKY, 1993.