

ALTERNATIVE METHODS FOR CONSTRUCTING OF LINEAR REGRESSIONS

M.O. ONIZHUK, V.V. IVANOV, A.V. PANTELEIMONOV, YU.V. KHOLIN

References:

1. Demidenko E.Z. Lineynaya i nelineynaya regressii. Moscow: Finansyi i statistika, 1981. P. 304. (in Russ.)
2. Lawson C., Hanson R. Solving Least Squares Problems. S.I.A.M: Classics in Applied Mathematics, 1995. P. 337.
3. Tikhonov A.N., Arsenin V.Ya. Metodyi resheniya nekorrektnykh zadach. Moscow: Nauka, 1986. P. 288. (in Russ.)
4. Tibshirani R. Regression shrinkage and selection via the lasso. *J. Roy. Statist. Soc.* 1996. B 58, № 1. P. 267-288.
5. Wold S., Sjöström M., Eriksson L. PLS-regression: a basic tool of chemometrics. *Chem. and Intell. Lab. Systems*. 2001. 58. P. 109.
6. Vinzi E., Chin W.W., Henseler J., Wang H. (Editors). Handbook of Partial Least Squares. Springer-Verlag: New York, 2010. P. 850.
7. Ahn S.J. Least Squares Orthogonal Distance Fitting of Curves and Surfaces in Space. Springer-Verlag: Berlin, Heidelberg, 2004. P. 127.
8. Van Huffel S., Vandewalle J. The total least squares problem. Computational Aspects and Analysis. Society for Industrial and Applied Mathematics: Philadelphia, 1991. P. 300.
9. Van Huffel S., Lemmerling P. (Editors). Total Least Squares and Errors-in-Variables Modeling Analysis, Algorithms and Applications. Springer Science + Business Media: Dordrecht, 2003. P. 398.
10. Bloomfield P., Steiger W.L. Least Absolute Deviations. Theory, Applications and Algorithms. Boston: Birkhäuser, 1983. P. 351.
11. Wesolowski G.O. A new descent algorithm for the least absolute value regression problem. *Comm. Stat. – Simul. Comp.* 1981. V. 10, № 5. P. 479.
12. Mudrov V.I., Kushko V.L. Metod naimenshih moduley. Moscow: Znanie, 1971. P. 64. (in Russ.)
13. Golbraikh A., Tropsha A. Beware of q^2 ! *J. Mol. Graph. and Mod.* 2002. V. 20, № 4 P. 269.
14. Veerasamy R., Rajak H., Jain A., Sivadasan S. Validation of QSAR models-strategies and importance. *Int. J. Drug Design and Discovery*. 2011. 2, № 3. P. 511.
15. Nazarenko A.Yu., Suhan V.V., Nazarenko N.A. Primenenie teorii nechetkikh mnozhestv dlya obrabotki rezultatov analiza *Zav. lab.* 1991. 57, № 10. P. 63. (in Russ.)
16. Kholin Yu.V., Nikitina N.A., Panteleimonov A.V., et al. Metrologicheskie harakteristiki metodik obnaru-zheniya s binarnym otklikom. Kharkiv. 2008. P. 87. (in Russ.)
17. Tables of Physical & Chemical Constants (16th edition 1995). 3.3 Properties of organic compounds. Kaye & Laby Online. Version 1.0 (2005) www.kayelaby.npl.co.uk.
18. Heyde C.C., Seneta E. (Editors) Statisticians of the centuries, New York: Springer-Verlag, 2001. P. 500.