

REFERENCES

- [1] Jenny, H., *Factors of soil formation: a system of quantitative pedology*, General Publishing Company, 1994, ISBN: 0-486-68128-9.
- [2] ส่วนมาตรฐานการสำรวจจำแนกดินและที่ดิน สำนักสำรวจดินและวางแผนการใช้ที่ดิน, “พิพิธภัณฑ์ดิน Soil Museum”, *กรมพัฒนาที่ดิน*, กันยายน 2009.
- [3] Harpstead, M. I., Sauer T. J. and Bennett W. F., *Soil Science Simplified*, 3rd ed., Iowa State University Press, 1997, ISBN: 0-8138-1504-5
- [4] Eswaran, H., Rice, T., Ahens, R. and Stewart, B.A., *Soil classification: a global desk references*, CRC Press, 2002, ISBN: 0-8493-1339-2.
- [5] United States Department of Agriculture (USDA), *Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys*, U.S. Government Printing Office, 2nd ed., 1999.
- [6] Food and Agriculture Organization of the United Nations, *World reference base for soil resources 2014*, FAO publications, 2014, vol.106, E-ISBN: 978-92-5-108370-3.
- [7] Mahilum, B. C., *Basic soil science and concepts in tropical soils*, Trop Ag Hawaii, 2004, ISBN: 0-615-12583-2.
- [8] Chesworth, W., *Encyclopedia of Earth science series: Encyclopedia of soil science*, Springer, 2008, ISBN: 978-1-4020-3995-9.
- [9] Kaniu, M. I. and Angeyo, K. H., “Challenges in rapid soil quality assessment and opportunities presented by multivariate chemometric energy dispersive X-ray fluorescence and scattering spectroscopy”, *Geoderma*, vol. 241-242, March 2015, pp.32-40.

- [10] Caglar, N. and Arman, H., "The applicability of neural networks in the determination of soil profiles", *Bull Eng Geol Environ*, vol. 66, 2007, pp. 295-301.
- [11] Vasques, G. M., Demattê, J. A. M., Viscarra Rossel R. A., Ramírez-López L. and F. S. Terra, "Soil classification using visible/near-infrared diffuse reflectance spectra from multiple depths", *Geoderma*, vol. 223-225, July 2014, pp.73-78.
- [12] Brereton, R. G., *Chemometrics for Pattern Recognition*, Wiley, August 2009, ISBN: 978-0-470-98725-4.
- [13] Kohonen, T., "The self-organizing map". *Proc.IEEE*, vol.78, 1990, pp.1464-1480.
- [14] Foth, H. D., *Fundamentals of Soil Science*, 8th ed., John Wiley & Son, 1990, ISBN: 0-471-52279-1.
- [15] Singh, V., Agrawal, H.M., Joshi, G.C., Sudershan, M. and Sinha, A.K., "Elemental profile of agricultural soil by EDXRD technique and use of the principal component analysis (PCA) method to interpret the complex data", *Applied Radiation and Isotopes*, vol. 69, 2011, pp. 969-974.
- [16] Kittiwachana, S., Ferreira, D. L. S., Lloyd, G. R., Fido, L. A., Thompson, D. R., Escott, R. E. A., and Brereton, R. G., "One class classifiers for process monitoring illustrated by the application to online HPLC of a continuous process", *J. Chemom.*, vol. 24, no. 3-4, 2010, pp. 96-110.
- [17] Lloyd, G. R., Brereton, R. G. and Duncan, J. C., "Self-organizing maps for distinguishing polymer groups using thermal response curves obtained by dynamic mechanical analysis.", *Analyst*, vol. 133, no. 8, 2008, pp. 1046-59.
- [18] Olawoyin, R., Nieto, A., Grayson, R. L., Hardisty, F. and Oyewole, S., "Application of artificial neural network (ANN) self-organizing map (SOM) for the categorization of water, soil and sediment quality in petrochemical regions", *Expert Systems with Applications*, vol. 40, 2013, pp. 3634-3648.

- [19] Bação, F., Lobo, V. and Painho, M., “The self-organizing map, the Geo-SOM, and relevant variants for geosciences”, *Comput. Geosci.*, vol. 31, no. 2, 2005, pp. 155-163.
- [20] Marini, F., Bucci, R., Magrì, A. L., Magrì, A. D., Acquistucci, R. and Francisci, R., “Classification of 6 durum wheat cultivars from Sicily (Italy) using artificial neural networks,” *Chemom. Intell. Lab. Syst.*, vol. 90, no. 1, 2008, pp. 1-7.
- [21] Ballabio, D., Vasighi, M. and Filzmoser, P., “Effects of supervised Self Organising Maps parameters on classification performance”, *Anal. Chim. Acta*, vol.765, 2013, pp. 45-53.
- [22] Mele, P.M and Crowley, D.E., “Application of self-organizing maps for assessing soil biological quality”, *Agric., Ecosyst. Environ*, vol. 126, 2008, pp. 139-152.
- [23] Kittiwachana, S., Ferreira, D. L. S., Fido, L. A., Thompson, D. R., a Escott, R. E. and Brereton, R. G., “Self-organizing map quality control index.”, *Anal. Chem.*, vol. 82, no. 14, 2010, pp. 5972-82.
- [24] Fong, S. S. and Sági-Kiss, V., “Multiple self-organizing maps (mSOMs) for simultaneous classification and prediction: Illustrated by spoilage in apples using volatile organic profiles”, *Chemom. Intell. Lab. Syst.*, vol. 109, no. 1, 2011, pp. 57-64.
- [25] Krongchai, C., Funsueb, S., Jakmune, J. and Kittiwachana, S., “Application of multiple self organizing maps for classification of soil samples in Thailand according to their geographic origins”, *J. Chemom.*, vol. 31, 2016, pp. 1-10.
- [26] Funsueb, S. Krongchai, C., Mahatheeranont, S. and Kittiwachana, S., “Prediction of 2acetyl-1-pyrroline content in grains of Thai Jasmine rice based on planting condition, plant growth and yield component data using chemometrics”, *Chemom. Intell. Lab. Syst.*, vol. 156, 2016, pp. 203-210.

- [27] Wu, W., Walczak, B., Massart, D. L., Heuerding, S., Ermi, F., Last, I. R. and Prebble, K. A., "Artificial neural networks in classification of NIR spectral data: Design of the training set", *Chemom. Intell. Lab. Syst.*, vol. 33, no. 1, 1996, pp. 35-46.
- [28] Melssen, W., Wehrens, R., and Buydens, L., "Supervised Kohonen networks for classification problems", *Chemom. Intell. Lab. Syst.*, vol. 83, 2006, pp. 99-113.
- [29] Cervera, E. and Pobil, A.P., "Multiple self-organizing maps: A hybrid learning scheme", *Neurocomputing*, vol. 16, 1997, pp. 309-318.
- [30] Marini, F., Zupan, J. and Magrì, A.L., "On the use of counterpropagation artificial neural networks to characterize Italian rice varieties", *Anal. Chim. Acta*, vol. 510, 2004, pp. 231-240.
- [31] Marini, F., Zupan, J., Magrì, A.L., "Class-modeling using Kohonen artificial neural networks", *Anal. Chim. Acta*, vol. 544, 2005, pp. 306-314.
- [32] Marini, F., "Artificial neural networks in foodstuff analyses: Trends and perspectives A review", *Anal. Chim. Acta*, vol.635, 2009, pp.121-131.
- [33] Dixon, S.J., Xu, Y., Brereton, R.G., Soini, H.A., Novotny, M.V., Oberzaucher, E., Grammer, K. and Penn, D.J., "Pattern recognition of gas chromatography mass spectrometry of human volatiles in sweat to distinguish the sex of subjects and determine potential discriminatory marker peaks", *Chemom. Intell. Lab. Syst.*, vol. 87, 2007, pp. 161-172.