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**CRITICAL STUDY ON MATHEMATICAL APPROACHES TO DATA
PROCESSING IN THE RESEARCH OF THE PHENOMENON OF MORBIDITY IN
THE JIU VALLEY**

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Abstract

With the help of mathematical regression formulas, we are going to determine the variation laws of the phenomenon of morbidity in the coal-mining area of Valea Jiului (The Jiu Valley), county of Hunedoara in Romania, as well as the confidence coefficient in each variation law. Next, considering the value of the coefficients obtained for each regression method and the comparison thereof, we will critically assess which of the variation laws resulting from a certain regression method is closest to the truth.

Key words: social issues, morbidity, mathematical regressions, mining, organizational stress, variation laws, comparative criticality

References

1. Băban A., Stresul și personalitatea, Editura Presa Universitară Clujeană, 1998
2. Bodea I., Importanța abordării problemelor psihosociale din mediul de muncă, Program twinning RO-IB-99-CO-01 România – Suedia, Timișul de Sus, 2002
3. Bodea I., Bozdog A.F., Burdea F., Stresul, factor de risc important pentru sănătatea și securitatea în muncă la minele din Valea Jiului, Conferința Jubiliară a Inspecției Muncii, Securitate și Sănătate în Muncă, Sibiu, România, 2013
4. Floru R., Stresul psihic, Editura Științifică, București, 1974
5. Golu M., Stresul psihic // Dicționar de psihologie socială, Editura Enciclopedică, București, 1981, pp. 235-236.
6. Holt R., Occupational Stress. In: Gulaberg, S. Breznitz. Ed. Handbook of stress. Theoretical and Clinical Aspects. The Free Press, New York, 1982, pp. 419-444.
7. Irimie S., Pricope (Muntean) L.D., Pricope S., Irimie S.I., Methodological Aspects Regarding the Organizational Stress Analysis, 7th International Conference on Manufacturing Science and Education – MSE 2015, June 3-5, 2015, Sibiu, Romania
8. Landy F.J., Psychology: The Science of People, Prentice-Hall, Inc, 1984
9. Lazarus R. S., Folkman S., Stress, Appraisal and Coping, Springer Publishing, New York, 1984
10. Health and Safety Executive UK, Tackling work related stress-a guide for employees, <http://www.hse.gov.uk/pubns/indg341.pdf>
11. European Agency for Safety and Health at Work, <https://osha.europa.eu/ro>
12. European Agency for Safety and Health at Work, Ghid electronic de gestionare a stresului și riscurilor psihosociale, 2015, <http://eguides.osha.europa.eu/stress/RO-RO/>
13. European Agency for Safety and Health at Work, Campaign Guide-Managing stress and psychosocial risks at work, <https://www.healthy-workplaces.eu/en/campaign-material/introducing-the-campaign-guide>, 21 March 2013, p.7
14. Organizația Internațională a Muncii, <http://www.ilo.org>
15. Organizația Mondială a Sănătății, <http://www.who.int>
16. Pricope Sorin, Sabina Irimie, Pricope(Muntean) Luminița , Mathematical Approaches In Studying Stress, IBIMA 2015
- 17.Sabina Irimie, Muntean(Pricope) Luminita, Pricope Sorin, Stress As Phenomenon, IBIMA 2015
- 18.Pricope Sorin, Teză de doctorat ” Aplicații ale calculului variațional în proiectarea asistată pe calculator în Geotehnică.Probleme corect puse”-Belfort - Franța decembrie 2015.