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Abstract Details

Abstract Title

MODERN METHODOLOGIES FOR ENVIRONMENTAL RISK ASSESSMENT AND INFLUENCES ON HUMAN HEALTH

Abstract Text

The paper presents new modern developed multi-criteria based methodologies for environmental risk assessment in order to face epistemic uncertainty arising from the time evolution of environmental pollution phenomenon. For developing those methodologies we used different mathematic instruments - algorithms and theories such as RST (Rough Set Theory), AHP (Analytical Hierarchy Process), D-S (Dempster - Shafer) etc - that are recognized for their capabilities in data mining/knowledge discovery and, in the latest years, also for the prognosis/diagnosis purposes. The new type of proposed methodologies represent a complement for the usually risk assessment methodologies and a valuable support for the environmental management decision combining expert knowledge and available measurements. Valuable meta-analyses based on latest scientific research results found in prestigious academic information platforms related to the pollution and its influences on the human health can be performed with those methodologies. Two main approaches for dealing with this complex issue are either to apply precautionary principle investigating the pollution properties either to assess the environmental risk for different environmental targets including the human health linked to the pollutants exposure over certain safety limits. Those approaches have been combined using to develop different multi-criteria environmental risk assessment methodologies where significant attributes/criteria are formulated, prioritized and used in order to find the relevant ones for supporting complex environmental decision. A brief description of the conceptual basis of one such methodology based on RST will be presented along with its application in case studies in order to assess the risk posed by pollutants with different level of hazardous properties that can adversely influence the human health when safety exposure limits are exceeded. The advantages over the usual risk assessment methodologies are also presented. Key words: RST, environment, risk

Author(s)

Georgeta Madalina, Arama (presenting)

INCD-ECOIND Bucharest, Drumul Podu Dambovitei 71-73, Sect. 6, Cod postal 060652
Tel:04.021.410.67.16/410.03.77/410.24.01 Fax: 04.021.410.05.75 / 412.00.42; e-mail: ecoind@incdecoind.ro
<http://www.incdecoind.ro>;

Caro, Len
INCD-ECOIND Bucharest, Drumul Podu Dambovitei 71-73, Sect. 6, Cod postal 060652
Tel:04.021.410.67.16/410.03.77/410.24.01 Fax: 04.021.410.05.75 / 412.00.42; e-mail: ecoind@incdecoind.ro
<http://www.incdecoind.ro>;

Doina, Guta
INCD-ECOIND Bucharest, Drumul Podu Dambovitei 71-73, Sect. 6, Cod postal 060652
Tel:04.021.410.67.16/410.03.77/410.24.01 Fax: 04.021.410.05.75 / 412.00.42; e-mail: ecoind@incdecoind.ro
; <http://www.incdecoind.ro>;

Presentation

Contribution proposed for: oral presentation

