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## **STATISTICAL APPROACH OF ENVIRONMENTAL QUALITY MANAGEMENT AND POLITICAL DECISION-MAKING AT LOCAL LEVEL: CASE STUDY IAȘI CITY, ROMANIA**

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### **Abstract**

Environmental quality is directly influenced by the level of pollution generated by economic, industrial or anthropogenic activities and directly affect the citizens' life quality and wellbeing, and ensuring a good status of environment it is a stringent topic that must become the major interest for the local public authorities. The main goal of this study is to evaluate the environmental quality in Iasi city, how the overall quality is influenced by the level of pollution and what are the actions and measures taken by the local authorities. Thus, the research took into consideration the level for air pollution based on PM10 measured concentration for the period 2009-2018 and is structured on three levels: 1. the impact evaluation of the particulate matter (PM10) on public health; 2. the identification and impact evaluation of the mobile and static pollution sources on air quality in Iași city and 3. the relevance and effectiveness of the local public policies for air quality management. Also, beyond political strategies the article emphasize the fact that an increased level of the green areas could improve the air quality in Iasi city. Statistical correlations reflect a weak association between the dynamics of the green areas during 2009-2018 and the level of PM10 pollutants. As rational player, interested in maximizing the votes and maintaining the political power at a constant level, the local officials develop strategies, programs and policies that should be more effective in environmental management field.

*Key words:* air pollution, decision making, environmental quality, Iasi local administration, public health

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