



“Gheorghe Asachi” Technical University of Iasi, Romania



INFLUENCE OF ENVIRONMENTAL AND ECONOMIC FACTORS ON ENDEMIC FLORA IN THE EUROPEAN UNION

**María-Dolores Huete-Morales, José-Manuel Quesada-Rubio*,
Esteban Navarrete-Álvarez, María-Jesús Rosales-Moreno,
María-José Del-Moral-Ávila**

*University of Granada, Department of Statistics and Operations Research, Faculty of Science,
Avda. Fuentenueva s/n 18071 Granada, Spain*

Abstract

The optimal development and survival of certain animal and plant species has sometimes been used as a sustainability indicator regarding environmental health or quality in a given territory. In this sense, the number of endemic species is an important indicator of proper environmental conservation. In this paper we study the relationship between the number of endemic plants and certain environmental variables related to human and economic development in various European countries. A statistical study was carried out using spatial analysis techniques to establish an explanatory model of the number of plant species endemic to each country analyzed and to provide an overview of the information recorded in the European Union.

Key words: endemic species, environment, spatial statistical analysis

Received: April, 2013; Revised final: September, 2013; Accepted: October, 2013

* Author to whom all correspondence should be addressed: E-mail: quesada@ugr.es