

### **P.3.13. THE IMPROVEMENT OF THE EFFICIENCY OF USING THE DATA OBTAINED FROM SOIL AND CROP VEGETATION STATUS SENSORS BY AUTOMATING ACQUISITION, STORE AND PROCESS OPERATIONS**

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The technological progress of recent offers opportunities for real-time measurement of production parameters (climate, soil and crop conditions).

The high variability of the data, require finding the possibility to automate the data management (acquisition, organization, processing and interpretation). Following the data acquisition from sensors was performed several operations involving repeat the specific sequences of statistical analyses. The purpose of this paper is to develop a support application to facilitate the repeat processes.

For an efficient data processing which is acquired using soil and crop vegetation status sensors, the support application must perform several conditions:

- Running easily the specific precision farming statistical procedures (standard deviation, variation coefficient, mean, minimum, maximum, Duncan test, analysis of variance);
- The spatial interpolation of the data based on geo-referenced data;
- The soil resources maps obtaining;
- Finally the production estimation.

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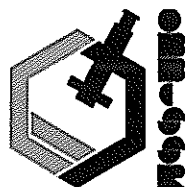
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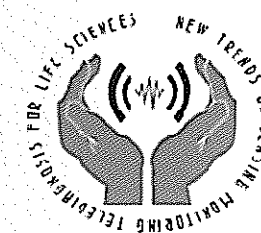
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# New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences

NT SMT-LS 2015

Brasov, Romania, Sept. 3-5, 2015

## BOOK OF ABSTRACTS



### Editors

Mihaela BADEA  
Laura FLOROIAN  
Patrizia RESTANI  
Jean-Louis MARTY

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