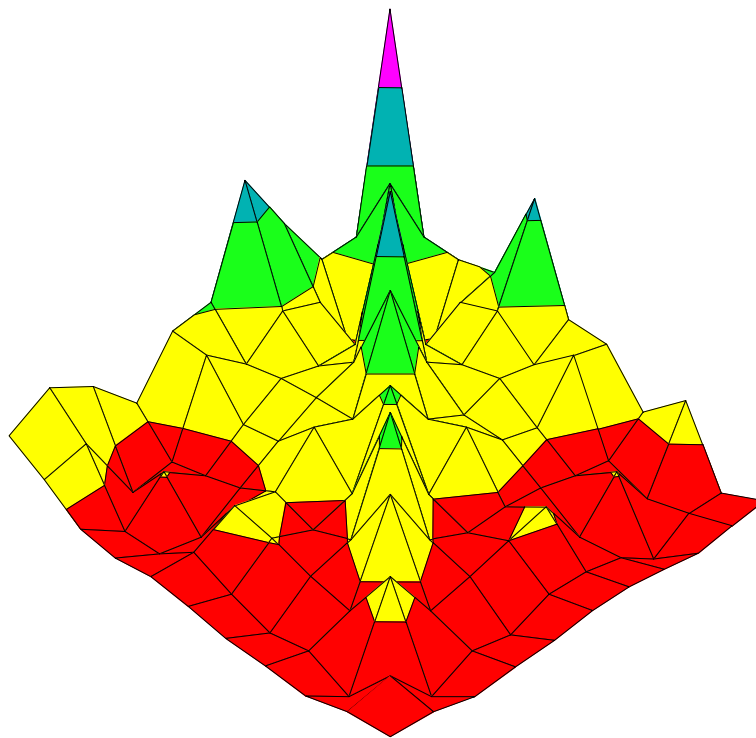




Leonardo Journal of Sciences

Issue 5

*July-December
2004*



ISSN 1583-0233



AcademicDirect
Publishing House

Leonardo Journal of Sciences

ISSN 1583-0233

Issue 5

July-December

2004

Leonardo Journal of Sciences

<http://ljs.academicdirect.org>

Edited by

AcademicDirect Publishing House

Tel.: 0766-239997

Chief redactor

Lorentz JÄNTSCHI

E-mail: lori@ljs.academicdirect.org

Editorial board

Gheorghe LAZEA, Prof. Ph. D. Eng. (automatics),

T. Univ., Cluj-Napoca, RO

Elena ZAHARIEVA-STOJANOVA, Asist. Prof. Ph. D. Eng. (computer sciences),

T. Univ., Gabrovo, BG

Ivan SIMEONOV SIMEONOV, Asist. Prof. Ph. D. Eng., (computer systems),

T. Univ., Gabrovo, BG

Rosen STEFANOV IVANOV, Asist. Prof. Ph. D. Eng., (computer technologies),

T. Univ., Gabrovo, BG

Lorentz JÄNTSCHI, Assoc. Prof. Ph. D. Sci. Eng., (informatics),

T. Univ., Cluj-Napoca, RO

Maria MICULA, Prof. Ph. D. Sci., (mathematics),

A. S. V. M. Univ., Cluj-Napoca, RO

Mihai DAMIAN, Assoc. Prof. Ph. D. Eng., (engineering),

T. Univ., Cluj-Napoca, RO

Elena Maria PICA, Prof. Ph. D. Sci. (chemistry),

T. Univ., Cluj-Napoca, RO

Eugen CULEA, Prof. Ph. D. Sci., (physics),

T. Univ., Cluj-Napoca, RO

Tiberiu RUSU, Prof. Ph. D. Eng., (environment),

T. Univ., Cluj-Napoca, RO

Mircea SAVATTI, Prof. Ph. D. Eng., (agronomy),

A. S. V. M. Univ., Cluj-Napoca, RO

Anca BUTNARU, Asist. Prof. Ph. D. Med., (medicine),

"I. H." M. F. Univ. Cluj-Napoca, RO

Contents

1. Binomial Distribution Sample Confidence Intervals Estimation 8.
Number Needed to Treat and NNT-like Expressions, by Sorana
BOLBOACĂ, and Andrei ACHIMAȘ CADARIU p. 1-17
2. Multiple Choice Examination System 1. Database Design and
Implementation for General Chemistry, by Horea Iustin NASCU,
and Lorentz JÄNTSCHI p. 18-33
3. Development of Model and Simulation of a Two-Phase, Gas-
Liquid Horizontal Separator, by O. D. ADENIYI p. 34-45
4. A Database Integrity Pattern Language, by Octavian Paul
ROTARU, and Mircea PETRESCU p. 46-62
5. Water Activated Carbon Organics Adsorption Structure - Property
Relationships, by Lorentz JÄNTSCHI..... p. 63-73