

# prof.dr. Enăchescu N. Denis Melvin Nicolae



## Office Address

UNIVERSITY OF BUCHAREST  
Faculty of Mathematics and Computer Science  
str. Academiei 14, 010014 București, ROMANIA  
Phone: (4)021 314 35 08/2107  
Fax: (4) 021 314 69 90  
E-mail: [denaches@fmi.unibuc.ro](mailto:denaches@fmi.unibuc.ro)

## Personal Information:

*Marital status:* married  
*Citizenship:* Romanian  
*Date of Birth:* 14 September 1952  
*Place of Birth:* Bucharest, ROMANIA

## Academic qualifications

- 1975  
**University of Bucharest, Faculty of Mathematics, Department of Informatics**  
Licentiate in Mathematics, specialty Informatics
- 1980  
**University of Bucharest**  
Ph.D. with the thesis *Statistic study of the stochastic processes. Computing aspects to the parabolic equation*, before a board of professors including Acad. N. Teodorescu, Prof. I. Cuculescu, Prof. S. Guiașu, Prof. I. Văduva and lead by Prof. I. Colojoară

## Documentation Terms

- 1982 (August)  
**Mathematical Institute of the Hungarian Academy, Budapest, Hungary**, in the domain of Monte Carlo Methods, within the Academic Agreement Exchange Program (two weeks);
- 1985 (April)  
**Mathematical Institute of the Czech Academy, Prague, the former S.R. of Czechoslovakia**, in the domain of Numerical Analysis, within the Academic Agreement Exchange Program (ten days);
- 1988 (May)  
**Mathematical Institute of the German Academy, Berlin, the former D.R. of Germany**, in the domain of Monte Carlo Methods, within the Academic Agreement Exchange Program (two weeks);
- 1991 (October)  
**Joint Institute of Nuclear Research, Dubna, Russia**, in the domain of Monte Carlo Methods, within the Academic Agreement Exchange Program (two weeks);
- 1993 (February)  
**Conservatoire National des Arts et Métiers, CNAM-Paris, France**, in the domain of Data Analysis, within the TEMPUS JEP no 2775 Program (ten days);

- 1993 (March - April)  
**University of Umea, Sweden**, in the domain of Computational Statistics, within the TEMPUS JEP no 2775 Program (two months);
- 1994 (March - April)  
**Technical University of Munich, Germany**, in the domain of Computational Statistics, within the TEMPUS JEP no 2775 Program (six weeks);
- 1994 (September)  
**University of Athens, Greece**, in the domain of Computational Statistics, within the TEMPUS JEP no 2775 Program (two weeks);
- 1997 (October)  
**University of Paris VI, France**, in the domain of Neural Networks, invitation (a month);
- 1998 (November)  
**University of Naples, Italy**, in the domain of Neural Networks, invitation (a week);
- 1999 (August)  
**Statistical Institute of Chalmers University of Technology, Goteborg, Sweden**, in the domain of Monte Carlo methods, invitation (ten days);
- 2002 (May)  
**University of Padova, Italy**, in the domain of theory for statistical learning, within the SOCRATES Program (ten days);
- 2002 (November)  
**University "Paul Sabatier", Toulouse, France**, in the domain of neural networks for pattern recognition, invitation (ten days);
- 2004 (May)  
**University of Salamanca, Spain**, in the domain of support vector machines for pharmacokinetics, within the SOCRATES Program (ten days);

### **P r o f e s s i o n a l   m e m b e r s h i p s**

- 1991  
member of the **International Association for Statistical Computing - IASC** –  
member of the **Gesellschaft fur Angewandte Mathematik und Mechanik – GAMM** -
- 1994  
elected ordinary member of the **International Statistical Institute - ISI** –  
(<http://isi.cbs.nl/ISImembers/isimembersA-F.pdf>)
- 1997  
founding member of the **Romanian Society of Probability and Mathematical Statistics**
- 1999  
member of the **Association of Balkan Statisticians -ABS**
- 2001  
member of the **International Biometric Society -IBS**
- 2002  
member of the **International Society for Clinical Biostatistics –ISCB**

## National and International Acknowledgement

- 1978  
included in the bibliographical book *The International Authors and Writers Who's Who*, I.B.C. Cambridge, England
- 1980  
the first prize at the **V-th Mathematical Balcaniad for students and young researchers**, Ankara, Turkey, for the paper [4.1]- *Statistical methods for parabolic equation*
- 1985  
the **Gheorghe Lazăr** prize of the Mathematical Department of the Romanian Academy for the monograph [6.1]- *Nonsteady processes of energy redistribution in the terrestrial crust* (in romanian), Technical Publishing House, Bucharest, in collaboration with M. Albu
- 1994  
invited professor at *Conservatoire National des Arts et Métiers - CNAM* - Paris, chair of Applied Statistics, to deliver the course *Analyse discriminante discrete* (two months);
- 2003  
invited professor at *Universita degli Studi di Padova*, Italy, "Dipartimento di Scienze Statistiche" to deliver the course *Statistical Learning* (22-26/sept.) for the PhD students who pursue the "Ciclo di Seminari per il Dottorato di Ricerca in Statistica e Statistica Applicata alle Scienze Economiche e Sociali"; (<http://www.stat.unipd.it/news/seminars?archivio=true>)
- 2004  
invited professor at *Universita degli Studi di Padova*, Italy, "Dipartimento di Scienze Statistiche" to deliver the course *Unsupervised Statistical Learning and Data Mining* (27/sept-1/octb) for the PhD students who pursue the "Ciclo di Seminari per il Dottorato di Ricerca in Statistica e Statistica Applicata alle Scienze Economiche e Sociali"; (<http://www.stat.unipd.it/news/seminars?archivio=true>)
- 2005
  - invited speaker at "The 70<sup>th</sup> ICB Seminar –Statistics and Clinical Practice–", Warsaw, Poland, June
  - member of the Scientific Committee of *The 26<sup>th</sup> Annual Conference of the ISCB*, Szeged, Hungary, (<http://www.congresstravel.hu/iscb/committees.html>)
  - reviewer at *International Society for Clinical Biostatistics News* (till now)
- 2006
  - Associate Chief Editor of the "*Annals of the University of Bucharest for Computer Science*" (till now) ([http://fmi.unibuc.ro/ro/analele\\_universitatii\\_bucuresti/analele\\_univ\\_informatica](http://fmi.unibuc.ro/ro/analele_universitatii_bucuresti/analele_univ_informatica))
- 2007
  - plenary lecturer at *Trends and Challenges in Applied Mathematics*, Bucharest, Romania (<http://civile.utcb.ro/ictcam/CONTENTS.pdf>)
  - the **Conference Award for Scientists** of "The 28<sup>th</sup> Annual Conference of the International Society for Clinical Biostatistics, Alexandroupolis, Greece
- 2008  
member of the Editorial Board of *Journal of Advanced Research in Applied Mathematics* ([http://98.130.221.225/edit\\_amath.aspx](http://98.130.221.225/edit_amath.aspx))
- 2009  
member of the Scientific Committee and Co-organizer of the *Computational Intelligence Section of the Romanian-German Symposium on Mathematics and Its Applications*, Sibiu, Romania (<http://depmath.ulbsibiu.ro/event/rogers2009/organizingcommitte.pdf>)

## Responsibilities

- Manager of research project in the below mentioned field of specialization (see for detail List 9);
- Head of the *Mathematical Computation Department* of the Computing Center of the University of Bucharest;
- Associate and Full Professor teaching Computational Statistics, Artificial Intelligence, Data Mining Technics, Supervised and Unsupervised Statistical Learning, Numerical and Symbolic Calculus, Statistics, Numerical Analysis, Computer Programming (see for detail List 10);
- Involved in the research management and strategy activities of the University of Bucharest (see for detail [8.6])
- Deputy Dean of the Faculty of Mathematics and Computer Science (from 2008 till now)

## Employment history

Employer	Years attended		Function
	From	to	
<b>University of Bucharest</b> The Computing Centre - CCUB	1979	1984	researcher
	1984	1990	Senior researcher
	1990	1992	Head of the Mathematical Computation Department
<b>University of Bucharest</b> Faculty of Mathematics Chair of Probab. & Stat.	1992	2000	Senior Lecturer
<b>University « Ovidius », Constanța</b> Faculty of Mathematics & Informatics Chair of Informatics & Num. Meth.	2000	2001	Associate Professor
	2001	2004	Associate Professor (part time)
<b>University of Bucharest</b> Faculty of Mathematics and Computer Science Chair of Computer Science	2001	2004	Associate Professor
	2004	Till now	Professor
<b>Romanian Academy</b> Institute of Math. Stat. & Applied Math.	2002	Till now	Senior Researcher gr. II (part time)

## Field of specialization

- the Monte Carlo method;
- factorial methods, cluster and discriminant analysis;
- neuronal networks and support vector machines for supervised and unsupervised statistical learning;
- biostatistics.

## Significant research achievements

- generalization of the Monte Carlo method in the case of:
  - linear algebraic equation – [2.2];
  - the Cauchy problem for differential linear equation – [2.5];
  - the Dirichlet problem for elliptic equation – [2.6], [4.2];
  - the mixed problem for hyperbolic and parabolic equations – [4.1], [3.2], [6.1];
  - the Fokker-Plank and Kolmogorov equations for randomly perturbed dynamical systems – [2.1];
- new numerical algorithms in the case of:
  - generating normal and gamma random variables – [2.4];
  - nonlinear filtering problem - [2.14], [3.3];
  - the finite elements method for parabolic equations – [2.13];
  - the finite elements methods for eigenvalues – [2.10];
  - estimating the  $\alpha$ -fractile for the studentized maximum absolute deviate in normal samples – [1.1], [2.17];
  - simulation of the production patterns of geothermal systems – [2.7], [2.9], [2.11], [6.1];
  - estimation of the pharmacokinetics parameters – [1.3], [1.4];
  - neuronal networks for discriminate analysis – [3.12];
- the performances of the outliers tests for normal and exponential populations – [1.2], [2.15], [2.16] [2.18], [2.19], [3.10];
- software for distance and open learning mathematical statistics – [5.1];
- models in reliability – [2.21], [2.22];
- new rules for interpreting outputs of principal components and correspondence analysis –[2.18];
- mathematical modelling with neural networks –[1.5], [2.29], [2.30]
- algorithms for outlying records detection in bioequivalence trials – [3.31], [3.33].

## Languages

### linguistic abilities:

French ; English ; German

### computer languages

MATLAB; STATISTICA; MATHEMATICA;

## Scientific, pedagogical and contractual research activities

- since 1975 till today, **87 scientific papers** published (see Lists 1-4);
- since 1975 till today, **2 books** published by **Foreign Publishing Houses**, **6 books** published by **National / University Publishing Houses**,
- since 1982 till today, delivered conferences at **11 Foreign Universities** (see List 12);
- since 2003 till today, member in **10 boards for conferring the scientific title of doctor in mathematics**;
- since 1996 till today, taken part in **6 international** and **21 national research grants** (see List 7-8);
- since 1979 till 1990, project manager for **29 contracts with industrial applications** (see List 9);
- since 1993 till today, **20 different courses and seminars** delivered (see List 10);
- since 1979 till today, participated with communications at, approximately, **60 national and 21 international scientific meetings** (see List 11).

October 2009

**List 1. Papers in journals included in the ISI<sup>1</sup> (USA) evaluation system**

**1992**

[1. 1] D.Enăchescu, E.Ursianu (1992) *Tables of Critical Values for simultaneous Tests*, Biom. J., 34, 8, p.945-960

Impact factor of the journal: 1.114<sup>2</sup>  
 Indexed in: ISI Web of Knowledge<sup>3</sup>  
 Cited: 1 time in Google Academic<sup>4</sup>

**1994**

[1. 2] M.Dumitrescu, D.Enăchescu, Fl.Hristea (1994) *On the performances of an outlier test in the case of the exponential distribution*, Comp. Stat. & Data Analysis, 17, p.119-27

Impact factor of the journal: 1.126  
 Indexed in: ISI Web of Knowledge

**1998**

[1. 3] C.Mircioiu, A.Perju, E.Griu, G.Calin, A.Neagu, D.Enăchescu (1998) *Pharmacokinetics of progesterone in postmenopausal women. 1. Pharmacokinetics following intravaginal administration*, European Jour. of Drug Metabolism and Pharmacokinetics, 23(3), p.391-396

Impact factor of the journal: 0.738  
 Indexed in: ISI Web of Knowledge  
 Cited: 1 time in ISI Web od Knowledge

[1. 4] C.Mircioiu, A.Perju, E.Griu, G.Calin, A.Neagu, D.Enăchescu, D.S. Miron (1998) *Pharmacokinetics of progesterone in postmenopausal women. 2. Pharmacokinetics following percutaneous administration*, European Jour. of Drug Metabolism and Pharmacokinetics, 23(3), p.397-402

Impact factor of the journal: 0.738  
 Indexed in: ISI Web of Knowledge  
 SCOPUS<sup>5</sup>  
 Cited: 4 times in ISI Web od Knowledge  
 6 times in SCOPUS  
 9 times in Google Academic  
 Distinct citations: 13

**2004**

[1. 5] D.Enăchescu (2004) *A Multilayer Perceptron Model for Prostate Cancer Prediction*, International Journal of Computer Mathematics, 81(4), p.407-415

Impact factor of the journal: 0.380  
 Indexed in: ISI Web of Knowledge  
 MathSciNet<sup>6</sup> MR2170891  
 SCOPUS

**2009**

[1.6] D.Enăchescu C. Enachescu (2009) *Clustering and Spatial Variation in Risk*, Biocybernetics and Biomedical Engineering, 29(2), p. 19-30

Impact factor of the journal: 0.333  
 Indexed in: ISI Web of Knowledge

<sup>1</sup> Institute of Scientific Information

<sup>2</sup> [http://www.cnscis.ro/IC8/2009\\_files/Factor\\_relativ\\_ajustat.pdf](http://www.cnscis.ro/IC8/2009_files/Factor_relativ_ajustat.pdf)

<sup>3</sup> [http://pcs.isiknowledge.com/uml/uml\\_view.cgi](http://pcs.isiknowledge.com/uml/uml_view.cgi) ....

<sup>4</sup> [http://scholar.google.ro/scholar?start=0&q=Enachescu,+D\\*&hl=ro](http://scholar.google.ro/scholar?start=0&q=Enachescu,+D*&hl=ro)

<sup>5</sup> <http://www.scopus.com/search/form/authorFreeLookup.url>

<sup>6</sup> <http://www.ams.org/mathscinet/search/publication.html> ...

**List 2. Papers in refereed journals****1975**

- [2. 1] D.Enăchescu (1975) *Monte Carlo methods for solving a class of partial differential equations with variable coefficients*, Bull.Math.Soc.Sci.Math.RSR, 19(67), 3-4, p.277-282  
Indexed in: MathSciNet MR0455121

**1976**

- [2. 2] D.Enăchescu (1976) *A generalization of the Monte Carlo method for solving a linear algebraic equation system*, Bull.Math.Soc.Sci.Math.RSR, 20(69), 1-2, p.77-88  
Indexed in: MathSciNet MR0468095

**1977**

- [2. 3] V.Urucu, D.Enăchescu (1977), *Peculiarities of using a clustering algorithm in geography* (in romanian), Stud. Cercet. Geol. Geof. Geogr., seria Geografie, XXIV, p.121-25.  
[2. 4] D.Enăchescu (1977) *An algorithm of generating normal and gamma random variables* (in romanian), Stud. Cercet. Mat., 29, 3, p.315-19  
[2. 5] D.Enăchescu (1977) *A Monte Carlo method of solving the Cauchy problem for differential linear equations systems*, Bull.Math.Soc.Sci.Math.RSR, 21(69), 1-2, p.11-23  
Indexed in: MathSciNet MR0488613

**1980**

- [2. 6] D.Enăchescu (1980) *Numerical estimations of spectral densities* (in romanian), Stud. Cercet. Calc. Ec. Ciber. Ec., XIV, 3, p.61-72

**1981**

- [2. 7] M.Albu, D.Enăchescu (1981) *On the simulation of the behavior of hydrothermomineral underground systems* (in romanian), Stud. Cercet. Geol. Geof. Geogr., seria Geof., 19, p.143-155  
[2. 8] D.Enăchescu (1981) *Digital methods in estimating spectral densities*, Econ. Comp. and Econ. Cyber. Stud. Res., XV, 1, p. 63-75  
Indexed in: MathSciNet MR0626725  
SCOPUS

**1982**

- [2. 9] D.Enăchescu, M.Albu (1982) *The numerical integration of the horizontal diffusivity equations for underground hydrothermomineral systems* (in romanian), Stud. Cercet. Mat., 34, 2, p.112-24  
[2.10] D.Enăchescu (1982) *Methods for solving parabolic equations based on time series*, Bull. Math. Soc. Sci. Math. Rom., 26(74), 1, p.27-34  
Indexed in: MathSciNet MR0660932

**1986**

- [2.11] M.Albu, D.Enăchescu, G.Paal (1986) *On the data interpretation method for the determination of available subterranean thermal water resources and for the optimization of their use* (in romanian), Stud. Cercet. Geol. Geof. Geogr., seria Geof., 24, p.54-60  
Indexed in: ISI Web of Knowledge

[2.12] D.Enăchescu (1986) *Monte Carlo technics in finite element method for elliptic equations*, Analele Univ. Craiova, seria mat. fiz. chim., XIV, p.50-56

Indexed in: MathSciNet MR0935020

## 1988

[2.13] D.Enăchescu (1988) *New results in the finite element method* (in romanian), Analele Univ. Craiova, seria mat. fiz. chim., XVI, p.58-65

## 1989

[2.14] D.Enăchescu (1989) *Variational computation method in nonlinear filtering*, Analele Univ. Buc., seria mat., XXXVIII, 3, p.19-26

Indexed in: MathSciNet MR1095395

## 1990

[2.15] D.Enăchescu, Fl.Hristea, R.Niculescu (1990) *On stepwise procedures for rejection of outliers in a normally distributed population*, Analele Univ. Buc., seria mat., XXXIX, 1-2, p.14-26

## 1992

[2.16] D.Enăchescu, Fl.Hristea (1992) *On the performances of a test for a single upper outlier in an exponential sample*, Analele Univ. Buc., seria mat.-inf., XLI, 2, p.61-69

## 1994

[2.17] D.Enăchescu, E.Ursianu (1994) *Optimal choice of critical values for simultaneous tests*, Analele Univ. Buc., seria mat., XLII - XLIII, p.21-27

Indexed in: MathSciNet MR1307236

## 1997

[2.18] C.Enăchescu, D.Enăchescu (1997) *A comparative study on the performances of some tests for a single outlier in an exponential sample*, Analele Univ. Buc., seria Inform., XLVI, pp.27-33

## 1999

[2.19] C.Enăchescu, D.Enăchescu (1999) *Neural Networks for Outliers with a General Linear Regression Model*, Analele Univ. Buc., seria inform., XLVIII, 1, p. 3-10

## 2000

[2.20] C.Enăchescu, D.Enăchescu (2000) *Some simple Rules for Interpreting outliers of Principal Components and Correspondence Analysis*, Analele Univ. Buc., seria inform., XLIX, 1, p. 3-8

Indexed in: MathSciNet MR1898163

## 2002

[2.21] D.Enăchescu, C.Enăchescu (2002) *Estimation of  $Pr(Y<X)$  in the case of the Luceno Distribution*, Rev. Roumaine de Math.Pure et Appl., 47, 2, p.171-177

Indexed in: MathSciNet MR1979039

Cited: 3 times in Google Academic

[2.22] D.Enăchescu, C.Enăchescu (2002) *Change-Point Models of Reliability and the Occam's Razor*, Math. Reports, 54, 4, p.63-70

Indexed in: MathSciNet MR1994118

[2.23] D.Enăchescu, C.Enăchescu (2002) *Principal Components Analysis. Application to the Study of Risk-Factors for Social Dissociation on Territorial Level in Romania*, Austrian Journal of Statistics, 31(2&3), p.123-130

**Cited in:** R.Dutter (2002) *Editorial*, Austrian Journal of Statistics, 31(2&3), p.115-116

### 2 0 0 3

[2.24] D.Enăchescu (2003) *Estimating a Boundary in the presence of the Obsevation Error*, Analele Univ. Buc., seria inform., LII, 1, pp.109-116

**Indexed in:** MathSciNet MR2049583

[2.25] D.Enăchescu, C.Enăchescu, C.Mircioiu, I.Mircioiu (2003) *On the Classification of Sets of Experimental points and Curves in Biopharmacy. Dissolution Metrics*, Craiova Medical Journal, vol.5, sup.3, p.493-496

**Cited:** 1 time in ISI Web of Knowledge

[2.26] D.Enăchescu, C.Enăchescu, S.Teodorescu (2003) *Statistical methods in Multiclass protein Fold recognition*, Craiova Medical Journal, vol.5, sup.3, p.141-143

[2.27] D.Enăchescu, C.Enăchescu (2003) *A Neural Network Approach for the Prediction of the Level of Prostate Specific Antigen*, Craiova Medical Journal, vol.5, sup.3, p.454-457

[2.28] D.Enăchescu (2003) *Reliability estimation from Luceno distributed data*, Analele Științifice ale Universității „Ovidius” Constanța, seria Matematică, XI (1), 2004, p.87-92

**Indexed in:** MathSciNet MR2076427

### 2 0 0 5

[2.29] D.Enăchescu, C.Enăchescu (2005) *Estimating an Endpoint of a Distribution in the presence of Observation Errors using Support Vector Machines*, Rev. Roumaine Math.Pures Appl., 50, 4, p.343-55

**Indexed in:** MathSciNet MR216000

### 2 0 0 6

[2.30] D.Enăchescu, R.Vernic (2006) *Approximating the distribution of a randomly weighted sum of random variables using kernel and neural network methods*, Math. Reports, vol.8(58), no.1, 37-47

**Indexed in:** MathSciNet MR2268383

[2.31] D.Enăchescu, C.Enăchescu (2006) *A multilayer perceptron network for the foetal weight prediction*, Analele Univ. Buc., vol. 55, p.73-84

**Indexed in:** MathSciNet MR2399911

**List 3. Papers in international refereed proceedings****1981**

[3. 1] D.Enăchescu (1981) *Stochastic processes for solving parabolic equations*, Proc. 6th Conf. Probab. Theory, Braşov, Ed. Acad.RSR, Bucureşti 1981, 533

Indexed in: Referativnii Jurnnal, seria Matematică, 1982, (519.254) 6 B461)

**1982**

[3. 2] D.Enăchescu (1982) *Monte Carlo methods for solving hyperbolic equations*, Probability and Statistical Inference, W. Grossmann et al.(eds), D.Reidel Publish. Comp., Holland, p.73-85

Indexed in: MathSciNet MR0668207

**1983**

[3. 3] D.Enăchescu (1983) *Monte Carlo methods for nonlinear filtering*, Mathematical Statistics and Applications, vol.B (Bad Tatzmannsdorf), W. Grossmann et al. (eds.), D.Reidel Publish. Comp., Holland., 1985, p.125-39.

Indexed in: MathSciNet MR0851049

Cited: 4 times in Google Academic  
3 times in ISI Web of Knowledge  
2 times in MathSciNet

D.W.R. Darling (2000) *Nonlinear Filtering – A Survey*, Tech. Report 0021, washington Univ. in St. Louis

Distinct citations: 5

**1993**

[3. 4] D.Enăchescu (1993) *The effect of correlation and unequal variances on the performances of the Grubbs outlier test*, Bull. of the Int. Stat. Inst., Contributed papers, 49 Session, book 1, Firenze, p.413-14

[3. 5] C.Mircioiu, A.Perju, D.Enăchescu, E.Griu, A.Neagu (1993) *Biodisposition and pharmacokinetics of percutaneous and intravaginal progesterone: correlation with in vitro measurements*, Proc. of the third Int. Prediction of Percutaneous Penetration, vol. 3b, K.R. Brain et al. (eds.), p.76-82, Printed by Infographics Limited, Cowbridge, Wales

**1994**

[3. 6] D.Enăchescu (1994) *Tables of Critical values for the Studentized Maximum Absolute Deviate in Normal Samples*, Proc. of the 11-th Symp. on Comp. Stat. - COMPSTAT'94, Vienna, Short Comm., ed.R. Dutter & W. Grossmann, Physica-Verlag, p.4-5

**1995**

[3. 7] D.Enăchescu (1995) *A New Test for an outlier in an exponential sample*, Bull. of the Int. Stat. Inst., Contributed papers, 50 session, book 1, Beijing, p.322-23

**1996**

[3. 8] C.Enăchescu, D.Enăchescu (1996) *A Comparative Study on the Performances of some Tests for a Single Outlier in an Exponential Sample*, COMPSTAT'96 Proceedings in Computational Statistics, ed. A. Prat & E. Ripoll, Generalitat de Catalunya, Institut d'Estadística de Catalunya, "Short Communications and Posters", p.187-189

**1997**

[3. 9] D.Enăchescu, V.Preda (1997) *Autoregressive models with mixed double-exponentially distributed noise*, Proc. of MMR'97, Bucharest, p.44-50, printed at GSCI-CIDE

[3.10] C.Enăchescu, D.Enăchescu (1997) *Neural Networks in Outliers Tests*, Proc. of MMR'97 Bucharest, Part II, p.297-301, printed at GSCI-CIDE

[3.11] D. Enăchescu (1997) *Monte Carlo Markov Chain for Parabolic Equations*, Bull. of the Int. Stat. Inst., Contributed papers, 51 session, book 2, Istanbul, p.593-4

### 1999

[3.12] C.Enăchescu, D.Enăchescu (1999) *An Iterative Algorithm for Learning by Support Vector Machine* Applied Stochastic Models and Data Analysis - Quantitative Methods in Business and Industry Society, Ed. H. Bacelar-Nicolau, E. Costa Nicolau, J. Janssen, pp.293-99, Instituto Nacional de Estatística, Portugal

[3.13] C.Enăchescu, D.Enăchescu (1999) *An iterative algorithm for learning by support vector machine. The Pattern Recognition Case*, Bulletin of the International Statistical Institute, 52<sup>nd</sup> Session, Contributed Papers, LVIII(1), p. 303-304

[3.14] D.Enăchescu, C.Enăchescu (1999) *Pharmacokinetic parameter estimation with stochastic dynamic models*, Abstract Volume of the 20<sup>th</sup> Annual Conference of the International Society for Clinical Biostatistics, Heidelberg, Germany, p.114

### 2000

[3.15] C.Enăchescu, D. Enăchescu (2000) *Estimation of  $pr(Y<x)$  in case of the Luceno distribution*, Proc. in Computational Statistics 2000, Short Communications and Posters, eds. W.Jansen&J.G.Bethlehem, p.181-82, Statistics Netherlands, ISSN 0253-018X

[3.16] D.Enăchescu, C.Enăchescu (2000) *Principal Component Analysis. Application to the Study of Risk-Factors for Social Dissociation on Regional Level in Romania*, International Data Analysis Conference, IDA'2000, Innsbruck, Austria, p.79

[3.17] D.Enăchescu, C.Enăchescu (2000) *Factors of Risk for Social Dissociation on Territorial Level in Romania*, 22<sup>nd</sup> Conference on Regional and Urban Statistics and Research, SCORUS'2000, Shenzhen, China, p. 216-222

### 2002

[3.18] D. Enăchescu, C. Enăchescu (2002) *Comparison Techniques in Reliability Modelling*, Proc. of the MMR'2002, June 17-20, 2002, Trondheim, Norway, NTNU, p.231-234

[3.19] D. Enăchescu (2002) *Model comparison in change-point reliability modeling*, Proc. of the COMPSTAT'2002, August 24-28, 2002, Berlin, Germany, p.54-56

Cited: 1 time in ISI Web of Knowledge

### 2005

[3.20] D.Enăchescu, C.Enăchescu (2005) *Learning Vector Quantization for Breast Cancer Prediction*, Proceedings 12<sup>th</sup> Portuguese Conference on Artificial Intelligence Celebrating 20 Years of AI in Portugal, Covilha, Portugal, 5-8 December 2005, Eds. Bento C., Cardoso A., Dias G., p.177-180, ISBN: 0-7803-9366-X

Indexed in: ISI Web of Knowledge

### 2006

[3.21] D.Enăchescu (2006) *Exploratory Statistical Techniques for Analysing Spatial Point Patterns. Application to the Incidence of Cancer in a Community*, Poster Session: THP8- Spatial Modelling, The XXXII<sup>nd</sup> Int. Biometric Conf., Montreal, Canada, on CD

[3.22] D.Enăchescu, C. Preda (2006) *Statistique de scan bidimensionnelles et applications en sante*, Journées MAS de la SMAI, Les Resumes, p. 66

## 2 0 0 7

[3.23] D.Enăchescu, L.P. Dinu (2007), *Languages Similarity. Measuring and Testing*, Recent Advances in Stochastic Modelling, Ed. Ch. H. Skiadas, ISBN 978-981-270-968-4, World Scientific, p.512-521

Indexed in: MathSciNet MR2449734

[3.24] D.Enăchescu, L.P. Dinu (2007), *On clustering Romance Languages*, Recent Advances in Stochastic Modelling, Ed. Ch. H. Skiadas, ISBN 978-981-270-968-4, World Scientific, p.521-529

[3.25] D.Enachescu (2007) *Identifiability problems of compartmental modeling*, Book of Abstracts of the 28<sup>th</sup> Annual Conference of the International Society for Clinical Biostatistics, Eds. Kenward M., Touloumi G., Alexandroupolis, Greece, p.172-174. printed by "Myriki", Athens, Greece

[3.26] C.Enăchescu, D.Enăchescu, (2007) *Nonstandard techniques for smart clustering. Application to the recommender systems for libraries*, Proceedings of the Workshop Services and Software Architectures, Infrastructures and Engineering for enhancing EU Citizen's Quality of Life, Romanian Academy Library, ISBN 978-973-0-04939-8, p.176-184

Cited: 1 time in Google Academic

[3.27] D.Enăchescu (2007) *Exploratory Data Analysis of Spatial Clustering for Inhomogeneous Populations*, Plenary Lecture in "Trends and Challenges in Applied Mathematics", eds. G. Paltineanu, E. Popescu, I. Toma, Bucharest, Romania, pp. 60-70p.172-174, MATRIX ROM, ISBN 978-973-755-283-9

## 2 0 0 8

[3.28] D.Enăchescu , C.Enăchescu (2008) *Is the blood brain barrier closed for human growth hormone? A statistical approach for pituitary tumor prediction*, in „The 7th International Seminar on Statistical and Clinical Practice”, eds. Barcelar-Nicolau, L.Bobrowski, J.Dowszewski, C.Kulikowski, Warsaw, Poland, p.39

[3.29] C.Enăchescu, D.Enăchescu, (2008) *Statistical techniques for pituitarity tumor prediction*, "9eme Colloque Franco-Roumain de Mathematiques Appliquees", Livre des resumes, eds. E.Paltanea, E.Stoica, Brasov, Roumanie, p. 31, Ed. Univ. Transilvania, ISBN 978-973-598-341-3

## 2 0 0 9

[3.30] D.Enăchescu, C.Enăchescu (2009) *Kernel for in vitro dissolution profile comparision*, in Romanian-German Symposium on Mathematics and Its Applications, Sibiu, Romania, p.25

[3.31] D.Enăchescu, B.Roman (2009) *A comparision of two algorithms for outlying records detection in bioequivalence trial*, in Romanian-German Symposium on Mathematics and Its Applications, Sibiu, Romania, p.25

[3.32] C.Enăchescu, D.Enăchescu, (2009) *Autoregressive systems with double-exponentially distributed noise*, in "Systems Theory Modeling, Analysis and Control", eds. A.El Jai, L.Afifi, E.Zerrik, Fes, Morocco, p.433-440, Presses Universitaires de Perpignan, ISBN 978-2-35412-043-6

[3.33] D.Enăchescu, C.Enăchescu (2009) *A new approach for outlying records in bioequivalence trials*, in Selected papers of „The XIIIth International Conference-Applied Stochastic Models and Data Analysis”, eds. L. Sakalauskas, C.Skiadas, E.K.Zavadskas, Vilnius, Lithuania, p. 250-257, VGTU Press „Technika”, ISBN 978-9955-28-463-5

## List 4. Papers in national refereed proceedings or collections

### 1980

[4. 1] D.Enăchescu (1980) *Statistical methods for parabolic equations*, Preprint Series in Math., 47, INCREST, Buc., pp.35, ISSN 0250-3638

Cited in: W.Wagner (1984) *Stochastic numerical algorithms for parabolic partial differential equations: examples and simulations studies*, P-MATH, Akad. Wissenschaft. DDR, Inst. Math., pp.13

### 1982

[4. 2] D.Enăchescu, S.Olariu (1982) *Using the finite element method to determine the proper forms of the vibration of a grid* (in romanian), Procc. of the National Colloquium on Probability Theory and Operational Research, Craiova, p.82-89

Indexed in: MathSciNet MR0842686

[4. 3] D.Enăchescu (1982) *Monte Carlo technics in the finite element method* (in romanian), Proc. of the National Colloquium on Probability Theory and Operational Research, Craiova, p.64-81

Indexed in: MathSciNet MR0842685

### 1983

[4. 4] D. Enăchescu (1983) *The multistep finite element method for nonhomogeneous parabolic equations* (in romanian), *Lucrările celui de al IV-lea Simpoz. de Analiză Funcț. și Aplic.*, Craiova, p.183-192

### 1985

[4. 5] D. Enăchescu, S.Olariu (1985) *Forecasting the evolution of the hydrodynamic field of the geothermal watery* (in romanian), *Lucrările celui de al VI-lea Simp. Aplic. Ciber., Inform. și Statist. în organiz. cond. și gestionarea ec. a produc.*, Buc., p.478-85

[4. 6] D. Enăchescu, C.Pascu, I.Văduva (1985) *Software for testing drugs in the clinical phases* (in romanian), *Lucrările celei de a VIII-a Consfătuiri de lucru și schimb de experiență a lucrătorilor din unitățile de informatică ale M.E.Î.*, Constanța, p.92-97

### 1986

[4. 7] D.Enăchescu, C.Pascu (1986) *Discrete discriminant analysis with applications to the sanitary services* (in romanian), *Lucrările celui de al IX-lea Simp. de Inform. Medicală, Iași*, p.77-81

[4. 8] D.Enăchescu, C.Mircioiu (1986) *Software for pharmacokynetics* (in romanian), *Lucrările celui de al IX-lea Simp. de Inform. Medicală, Iași*, p.290-94

### 1987

[4. 9] M.Albu, D.Enăchescu (1987) *About the simulation of the production patterns of thermo- and mineral systems* (in romanian), *Lucrările Simp. "Realizări și perspective în dezvoltarea alimentărilor cu apă, în protecția calității apelor și a mediului înconjurător"*, Sinaia, p.175-82

[4.10] D.Enăchescu, S.Olariu (1987) *Software for solving partial differential equations of parabolic type using the finite element method* (in romanian), *Lucrările Sesiunii Științifice Jubiliare a C.C.U.B.*, Buc., p.325-31

[4.11] D.Enăchescu, C.Pascu (1987) *Mathematical methods for testing drugs* (in romanian), *Lucrările Sesiunii Științifice Jubiliare a C.C.U.B.*, Buc., p.453-57

**1989**

[4.12] D.Enăchescu, R.Plaviță (1989) *Numerical simulation of the production patterns of the Oradea geothermal resource area*, Stud. Tehn. și Econ., seria E, 15, p.57-65

**2000**

[4.13] D.Enăchescu, C.Enăchescu (2000) *Computer aided learning in statistics: Internet and Multimedia –an overview of the actual packages* (in romanian), in: *Lucrările Conferinței de Informatică Teoretică și Tehnologii Informatice –CITTI'2000*, Constanța, p.64-68, Leda & Muntenia, ISBN 973-8082-10-2

**2003**

[4.14] D.Enăchescu, C.Enăchescu, C.Mircioiu, I.Mircioiu (2003) *On the Classification of Sets of Experimental points and Curves in Biopharmacy. Dissolution Metrics*, Proc. of the MEDINF'2003, October 9-11, 2003, Craiova, Romania, p.152-3, Ed. Medicala Univ., ISSN 1454-6876

[4.15] D.Enăchescu, C.Enăchescu, S.Teodorescu (2003) *Statistical methods in Multiclass protein Fold recognition*, Proc. of the MEDINF'2003, October 9-11, 2003, Craiova, Romania, p.56-7, Ed. Medicala Univ., ISSN 1454-6876

[4.16] D.Enăchescu, C.Enăchescu (2003) *Regression Models for the Level of Prostate Specific Antigen*, Proc. of the MEDINF'2003, October 9-11, 2003, Craiova, Romania, p.243-4, Ed. Medicala Univ., ISSN 1454-6876

[4.17] D.Enăchescu, S.Teodorescu (2003) *Neural Network Methods in Protein Fold Recognition*, Proc. of the MEDINF'2003, October 9-11, 2003, Craiova, Romania, p.227-8, Ed. Medicala Univ., ISSN 1454-6876

### List 5. Books/chapters in books published by foreign publishing houses

[5.1] M.Janvier, D.Enăchescu, P.Wittman, M.Marco, E Verdoire,(1998) *Technique de la Statistique* (software, in french), vol. 1, Collection CNAM Media, Jeriko L'Editeur Universitaire Multimedia, Paris, 67,4Mb

[5.2] D.Enăchescu (2003) *Elements of Statistical Learning. Applications in Data Mining*, Cooperativa Libraria Editrice Università di Padova, Padova, Italia, ISBN 88-7178-951-2, pp.168

Cited in: I.F. Iatan (2006) *Descent Procedures for obtaining Linear Discriminant Functions*, Stud. Cercet. Stiint., Ser. Mat., 16, pp 459-466

[5.3] D.Enăchescu (2004) *Unsupervised Statistical Learning and data Mining*, Cooperativa Libraria Editrice Università di Padova, Padova, 2004, ISBN 88-7178-948-2, pp.175

Cited in: I.F. Iatan (2006) *Descent Procedures for obtaining Linear Discriminant Functions*, Stud. Cercet. Stiint., Ser. Mat., 16, pp 459-466

[5.4] D.Enăchescu (2005) *Mixed Models Analysis. Applications to the Medical Data*, chapter in: Lecture Notes of the International Centre of Biocybernetics Seminar –Statistics and Clinical Practice-, Warsaw, June 16-18, Poland, 2005, p.25-31, PWN-Polish Scientific Publishers, ISBN 978-83-01-15935-9

### List 6. Books and monographs published by national / university publishing houses

[6.1] M.Albu, D.Enăchescu (1985) *Nonsteady processes of energy redistribution in the terrestrial crust*, (in romanian) Technical Publishing House, Bucharest, pp.285

[6.2] M.Albu, A.Guran, L.Albu, C.Rădulescu, D.Enăchescu, M.Palcu (1989) *World resources of coals* (in romanian), Technical Publishing House, Bucharest, pp.250, ISBN 973-31-0083-8

[6.3] Fl.Hristea, D.Enăchescu, R.Balint (1994) *The Norton World: Norton Commander v.4.0, Norton Utilities v.7.0* (in romanian), Technical Publishing House, Bucharest. pp.400, pp.430, ISBN 973-31-0658-5

[6.4] D.Enăchescu (First Edition in 2003, Second in 2004, Third in 2005) *Statistical Data Mining Technics* (in romanian), The University of Bucharest Publishing House, ISBN 973-575-814-8, pp. 160

Cited: 2 times in Google Academic  
1 time in ISI Web of Knowledge

Distinct citations: 3

[6.5] C. Mircioiu, D.Enăchescu, C. Enăchescu, R.C. Sandulovici (2008), *Aplicații Numerice de Statistică în Farmacie și în Studii Clinice*, vol II, Metode Computerizate, Editura Universitară Carol Davila, București, ISBN 978-973-708-222-0

[6.6] D.Enăchescu (2009) *Data Mining. Metode si aplicatii*, Ed. Acad. Romane, pp.373, ISBN 978-973-27-1798-1 (in print)

**List 7. International Research grants****2 0 0 5**

- [7.1] *Marie Curie Chairs (EXC)*, Proposal ID024290 „Learning from Ubiquitous Data”, call identifier FP6-2006-Mobility-10  
win the preselection for a position in the Research Group on Mathematical Linguistics, Rovira i Virgili Univeristy, Tarragona, Spain

**2 0 0 5 - 2 0 0 6**

- [7.2] *Scan-statistics. Applications in medicine*,  
with University Lille 2, France, within the PAI „Brâncuși”,  
member of the research team,  
[http://fmi.unibuc.ro/ro/tema\\_cercetare\\_scan\\_statistics\\_si\\_aplicatii/](http://fmi.unibuc.ro/ro/tema_cercetare_scan_statistics_si_aplicatii/)

**2 0 0 6 - 2 0 0 8**

- [7.3] *Data exploration and statistical modeling with applications in medical decision support*,  
Polish-Romanian Joint Research Project, under the agreement on Scientific cooperation  
between the Polish Academy of Sciences and the Romanian Academy  
member of the research team,

**2 0 0 9 - 2 0 1 1**

- [7.4] *Prognostic models and their applications in medical screening procedures*,  
Polish-Romanian Joint Research Project, under the agreement on Scientific cooperation  
between the Polish Academy of Sciences and the Romanian Academy  
member of the research team,

**2 0 0 9 - 2 0 1 3**

- [7.5] *Cognitive Radio and Networking for Cooperative Coexistence of Heterogeneous Wireless Networks*,  
COST Action I0902,  
member in the Management Committee  
[http://w3.cost.esf.org/index.php?id=177&action\\_number=IC0902](http://w3.cost.esf.org/index.php?id=177&action_number=IC0902)
- [7.6] *Knowledge Discovery from Moving Objects (MOVE)*,  
COST Action I0903  
member in the Management Committee  
[http://w3.cost.esf.org/index.php?id=177&action\\_number=IC0903](http://w3.cost.esf.org/index.php?id=177&action_number=IC0903)

**List 8.** Relevant Research grants of the Romanian Academy, C.N.C.S.U.<sup>7</sup>, C.N.F.I.S.<sup>8</sup>, and M.C.T.<sup>9</sup>, P.N.C.D.I.

**Member** in the research team of the following research grants

- [8. 1] 1997 -*Stochastic processes for transport phenomena. Applications in biopharmacy and populational pharmacokinetics* (in romanian), grant 5105, Academy of Romania,
- [8. 2] 1997 -*Numerical algorithms to approximate noising diffusion process* (in romanian), grant 71/1008, CNCSU
- [8. 3] 1997 -*Methodology for solving the multi-objective problems for simulation and optimization* (in romanian), grant 72/1007, CNCSU
- [8. 4] 1998 -*Branching processes and corresponding semigroups. Applications for the numerical solving of the operatorial equations using the Monte Carlo method* (in romanian), grant 3/70, CNCSU
- [8. 5] 1998 -*Bayesian Methods for adaptive models* (in romanian), grant 4/81, CNCSU
- [8. 6] 1998-2000 -*Strategies of training and teaching interactively for the natural sciences at the University of Bucharest* (in romanian), grant 229, CNFIS
- [8. 7] 1997-1998 -*New methods for solving the multi-objective problems* (in romanian), grant 3046GR, MCT
- [8. 8] 1999-2000 -*Bayesian Methods for the Signal Extraction from Noise*, (in romanian), grant 5229Gr/1999 & 6058/2000, ANSTI
- [8. 9] 1999-2000 -*Multistart Methods with Estimation Scheme for Global Satisfaction Problems*, (in romanian), grant 5229Gr/1999 & 6058/2000, ANSTI
- [8.10] 2000 -*Estimation by a Reduced Order Observer in Discrete systems with Multiplicative Noise*, (in romanian), grant 2GAR/2000, Acad. Rom
- [8.11] 2000 -*Sliced Inverse Regression with Projections Pursuit*, (in romanian), grant 6120Gr/2000, ANSTI
- [8.12] 2001 -*Markov Chains for exploring A Posteriori Distributions*, grant CNCSIS 7080GR, B20
- [8.13] 2001 -*The Change-Point Analysis in the case of Noisy Observations*, grant CNCSIS 7080GR, B21
- [8.14] 2001 -*Bayesian Methods for selecting Non-imbricate Models*, grant CNCSIS 35262, 1251
- [8.15] 2002 -*Statistical Methods and Optimization Technics in the Decision Models Analysis*, cod CNFIS 234
- [8.16] 2003 -*The Principal Components Analysis for Logistic Regression*, cod CNCSIS 44a, grant 33549, A
- [8.17] 2004-2006 -*The Metabolic Variability and its Implication in Pharmacokinetic. Application to the cardio-vascular drugs*, (in romanian), the VIASAN Priority Programme, Grant 274/1
- [8.18] 2005-2007 -*Support systems for the culture of knowledge based on Business Intelligence solutions*, the CEEX-CERES Priority Program (<http://www.ici.ro/proiectnat4.html>)

<sup>7</sup> National Council of the University Scientific Research

<sup>8</sup> National Council for Founding the Higher Education

<sup>9</sup> Ministry of Research and Technology

[8.19] 2008-2011 *Criterii bioinformatic de optimizare a profilului de siguranta si eficacitate pentru medicamente hidrofobe-HIDROFOB*, cod proiect 3231, nr. Contract 42135

**Director** of the FMI<sup>10</sup> research team in the following research grants

[8.20] 2002 -*The Implications of the GRID Technologies in Education and Bioinformatics*, grant MEC 502/2000 & 2/2002

[8.21] 2005-2007 -*Software based on advances decision technics for a durable agriculture* (in romanian)-RIMOD, the CEEEX-RELANSIN Priority Program, Grant 28/133-01 ([http://fmi.unibuc.ro/ro/tema\\_cercetare\\_Software\\_pentru\\_agricultura/](http://fmi.unibuc.ro/ro/tema_cercetare_Software_pentru_agricultura/), <http://www.rimod.ici.ro/Pagini/parteneri.html>)

**List 9. Relevant contracts with industrial application**

(the below listed documentation's can be consulted, as preprints, in the Computer Center of the University of Bucharest-CCUB library)

[9. 1] D.Enăchescu (1979) *Estimation of the characteristic parameters of a hidrothermomineral resource area* (in romanian), contract 78-172/III.2 CCUB - CRRG, pp.56

[9. 2] D.Enăchescu (1980) *Numerical simulation of the production patterns of a hidrothermomineral system* (in romanian), contract 24/III.4 CCUB - CRRG, pp.45

[9. 3] D.Enăchescu (1981) *Software for modeling and simulating the production patterns of a geothermal system* (in romanian), contract 37/III.4 CCUB - CRRG, pp.97

[9. 4] D.Enăchescu (1981) *Numerical integration of the planar Boussinesq equation* (in romanian), contract 127 CCUB - INCREST, pp.27

[9. 5] D.Enăchescu (1981) *Methodology for collecting, systematizing and processing dates in order to estimate the parameters and forecast the evolution of a hidrothermomineral system in a given production pattern* (in romanian), contract 35 CCUB - IFLGS, pp.111

[9. 6] D.Enăchescu (1982) *Numerical simulation of the evolution of a geothermal system with given boundaries* (in romanian), contract 64/VI.2 CCUB - Min. Geologiei, pp.21

[9. 7] D.Enăchescu (1982) *Parameters estimation of the Boussinesq planar model* (in romanian), contract 109 CCUB - INCREST, pp.14

[9. 8] D.Enăchescu, S.Olariu (1982) *Numerical simulation of the dynamical behavior of the nuclear fuel fascicle* (in romanian), contract 45 CCUB - IFTM, pp.35

[9. 9] D.Enăchescu (1983) *Anizotropic model to forecast the evolution of the piezometric field of the hidrothermal system from Tomnatec* (in romanian), contract 35 CCUB - IFLGS, pp.22

[9.10] D.Enăchescu, S.Olariu (1983) *Numerical simulation of the production patterns of nonhomogeneous geothermal systems with given boundaries* (in romanian), contract 31 CCUB - Min. Geologiei, pp.47

[9.11] D.Enăchescu (1983) *The multistep finite element method for the planar Boussinesq equation* (in romanian), contract 50 CCUB - INCREST, pp.27

[9.12] D.Enăchescu (1984) *Processing data from the geothermal resource areas in order to estimate the heat potential* (in romanian), contract 46/IV CCUB – IFLGS, pp.57

[9.13] D.Enăchescu, I.Văduva (1984) *Mathematical statistics methods in the drug-research* (in romanian), contract 43 CCUB - CIMC, pp.40

<sup>10</sup> Faculty of Mathematics and Computer Science

- [9.14] D.Enăchescu, C.Pascu (1985) *Methodology of collecting, systematizing and codification of dates in the drugs clinical research phase* (in romanian), contract 98 CCUB - CIMC, pp.55
- [9.15] D.Enăchescu, S.Olariu (1985) *Mathematical modeling of the dewatering process* (in romanian), contract 34/II.2 CCUB - Min. Geologiei, pp.34
- [9.16] D.Enăchescu, M.Vlada (1987) *Algorithms and subroutines to compute the eigen- values and vectors of big and rare matrices* (in romanian), contract 98 CCUB - CIMC, pp.28
- [9.17] D.Enăchescu, Ș.Gavrilă, S.Olariu, Ș.Buzețeanu, C.Pascu, N.Iliescu, A.Pătrulescu, T.Șaroiu, Gh.Spatariu (1987) *Mathematical models in the preclinical tests of drugs* (in romanian), contract 98 CCUB - CIMC, pp.61
- [9.18] D.Enăchescu, M.Vlada (1988) *Farmaco- a computer aided design system in pharmacokinetics* (in romanian), contract 143 CCUB - CIMC, pp.97

**List 10. Relevant didactical activities****Courses<sup>11</sup>**

1. *Numerical and Formal Calculus*, Faculty of Mathematics, the IV-th study-year, between 1992-1997;
2. *Analyse discriminante discrete*, CNAM-Paris, Chaire de Statistique Appliquée, May-June 1994
3. *Computational Statistics*, Faculty of Mathematics, the IV-th study-year, between 1997-2000; and the first master-study year between 2002-2005
4. *Statistical Models*, Faculty of Mathematics, the master-study year, between 1999-2000;
5. *Statistical Analysis of the Technological Processes*, Faculty of Mathematics, the master-study year, between 1999-2000;
6. *Computer Programming*, Faculty of Geology, the second study-year, between 1990-1994;
7. *Elements of Mathematics and Statistics*, Faculty of Geography, the first study-year, between 1997-2000;
8. *Elements of Mathematics*, Faculty of Geography – The College for Hydrology and Meteorology, the first study-year, between 1997-2000;
9. *Elements of Statistics*, , Faculty of Geography – The College for Hydrology and Meteorology, the first study-year, between 1997-2000;
10. *Artificial Intelligence*, Faculty of Mathematics, the third-study year, between 2001-2005;
11. *Statistical Technics for Data Mining*, Faculty of Mathematics, the IV-th study year, between 2001-2005;
12. *Unsupervised Statistical Learning*, Faculty of Mathematics, the IV-th study year, between 2004-2005;

**Others**

1. Trained the romanian student-team for the V-th Matematical Balcaniad, 1980;
2. Leded the workshop *Mathematical Modeling in Pharmacokinetics*, CCUB, between 1987-1988;
3. Scientific coordinator of graduate and master dissertations, Faculty of Mathematics, since 1993;
4. Member in different boards for admittance and promotion at the Faculty of Mathematics, since 1994;
5. Member in different boards for conferring the scientific title of Doctor in Mathematics, since 2003;
6. Expert for the National Program INFOSOC, since 2003.
7. Expert for the Excellency Research Centres CEEX, since 2005.
8. Expert for the National Research Grants CNCSIS, since 2005.
9. Initiator and coordinator of a Master in Biostatistics, in collaboration with the Faculty of Pharmacy of the University "Carol Davila", Bucharest (2006).
10. Initiator and coordinator of Master in Artificial Intelligence (2008).

---

<sup>11</sup> The listed activities, with an exception, are done at the University of Bucharest

**List 11. Relevant international scientific meetings**

1. The Workshop *Informatics and mathematical modelling for development*, Bucharest-Romania, 1975;
2. The VI-th and VII-th International Conference of Probability Theory, Brasov-Romania, 1979 and 1982;
3. The V-th Mathematical Balcaniad for Student and Young Researchers, Ankara-Turkey, 1980;
4. The IV-th International Conferences on Vibration Theory in Mechanical Engineering, Timisoara-Romania, 1982;
5. The III-rd and IV-th Pannonian Symposium of Mathematical Statistics, Visegrad-Hungary 1982 and Bad Tatzmannsdorf-Austria, 1983;
6. The 49-th, 51-th and 52-th ISI Session, Florence-Italy, 1993; Istanbul-Turkey, 1997; Helsinki-Finland, 1999;
7. The 11-th, 12-th and 14-th COMPSTAT Symposium of the IASC, Vienna-Austria, 1994, Barcelona-Spain, 1996 and Utrecht-Netherlands, 2000;
8. The XXVII-th Session *Journées de Statistique de l'ASU*, Neuchatel-Switzerland, 1994;
9. The III-th French-Romanian Symposium for Analysis and Modeling, Cluj-Napoca, Romania, 1996 ;
10. The Seminar of the International Society of Biometry, Vienna-Austria, 1997;
11. The International Conference *Mathematical Methods in Reliability –MMR'97*, Bucharest-Romania, 1997;
12. The International Conference *New Techniques & Technologies for Statistics – NTTS'98*, Sorrento-Italy, 1998;
13. The IX-th Symposium *Applied Stochastic Models and Data Analysis*, Lisbon-Portugal, 1999;
14. The XX-th Seminar of the International Society of Clinical Biostatistics, Heidelberg-Germany, 1999;
15. "International Data Analysis Conference - IDA'2000", Innsbruck, Austria, september 2000;
16. The "22-nd Conference on Regional and Urban Statistics and Research – SCORUS'2000", Shenzhen, China, november 2000;
17. „The First International Conference on Medical Informatics & Engineering”, MEDINF'2003, october 9-11, 2003, Craiova, Romania
18. KNet Symposium Knowledge-Based Services for the Public Sector - 3rd and 4th of June, 2004, Bonn, Germany
19. The XXIInd International Biometric Conference in parallel with ASC 2004 Australian Statistical Conference, July 11-16 2004, Cairns, Australia
20. The 70th ICB Seminar –Statistics and Clinical Practice-, June 16-18, 2005, Warsaw, Poland
21. The 26th Annual Conference of the ISCB, August 21-26, 2005, Szeged, Hungary

**List 12.** Relevant conferences held at foreign universities

- **Mathematical Institute of the Hungarian Academy, Budapest, Hungary**, submitted the conference *Monte Carlo Methods for Algebraic Systems*, august 1982;
- **Mathematical Institute of the Czech Academy, Prague, the former S.R. of Czechoslovakia**, submitted the conference *Numerical simulation of the production pattern of geothermal resource area*, april 1985;
- **Mathematical Institute of the German Academy, Berlin, the former D.R. of Germany**, submitted the conference *Monte Carlo Techniques for the Finite Elements Method*, may 1988;
- **Joint Institute of Nuclear Research, Dubna, Russia**, submitted the conference *Monte Carlo methods for solving the mixed problem for partial differential equations of parabolic type*, october 1991;
- **University of Umea, Sweden**, submitted the conference *Monte Carlo Method: a Survey*, april 1993;
- **Technical University of Munich, Germany**, submitted the conference *A computational intensive method: the Monte Carlo Method*, march 1994;
- **University of Naples, Italy**, submitted the conference *The Vector Support Machine for Pattern Recognition*, november 1998;
- **Statistical Institute of Chalmers University of Technology, Goteborg, Sweden**, submitted the conference *Monte Carlo Method for differential Operators*, august 1999;
- **University of Padova, Italy**, submitted the conference *Monte Carlo Method for Operational Equations*, may 2002;
- **University "Paul Sabatier", Toulouse, France**, submitted the conference *Monte Carlo Method for Parabolic Equations*, november 2002;
- **University of Salamanca, Spain**, submitted the conference *Learning from data. Support Vector Machines*, may 2004;