

SCIENTIFIC PUBLICATIONS

Marius Dorian Zaharia, University POLITEHNICA of Bucharest

A. TEZA DE DOCTORAT – **PhD. THESIS**

- A1. Baze de date pentru prelucrari grafice
Domeniul: stiinta calculatoarelor
Data sustinerii: 19 septembrie 1997
Aprobata prin Ordinul Ministrului Educatiei Nationale nr. 5374, din 20 Noiembrie 1997.
- A1. [Data Bases for Graphics Processing](#)
Domain: Computer Science
Date: 19 September 1997
Approved: Order of the Ministry of Education, no. 5374, from 20 November 1997.

B. ARTICOLE (Ba, Bb, Bc) – **SCIENTIFIC PAPERS**

Ba – **Lucrări publicate în reviste de specialitate** – Papers published in scientific magazines

- B1. F. Moldoveanu (34%), Z. Racovită(33%), **M. Zaharia(33%)**, *Dictionar explicativ de informatică modernă – Elemente de Grafică pe Calculator*, PC-WORLD, An 4, Nr. 11, pag. 91-95, Noiembrie 1996.
B1. F. Moldoveanu, Z. Racovită, **M. Zaharia**, *Dictionary of Computer Science – Computer Graphics*, PCWORLD – romanian edition, 4-th year, No. 11, pp. 91-95, November 1996.
- B2. F. Moldoveanu(34%), Z. Racovită(33%), **M. Zaharia(33%)**, *Dictionar explicativ de informatică modernă – Elemente de Grafică pe Calculator*, PC-WORLD, An 4, Nr. 12, pag. 91-95, Decembrie 1996.
B2. F. Moldoveanu, Z. Racovită, **M. Zaharia**, *Dictionary of Computer Science – Computer Graphics*, PCWORLD – romanian edition, 4-th year, No. 12, pp. 91-95, December 1996.
- B3. F. Moldoveanu(34%), Z. Racovită(33%), **M. Zaharia(33%)**, *Dictionar explicativ de informatică modernă – Elemente de Grafică pe Calculator*, PC-WORLD, An 5, Nr. 1-2, pag. 90-95, Ianuarie/Februarie 1997.
B3. F. Moldoveanu, Z. Racovită, **M. Zaharia**, *Dictionary of Computer Science – Computer Graphics*, PCWORLD – romanian edition, 5-th year, No. 1-2, pp. 90-95, January/February 1997.
- B4. M. Dobre(34%), **M. Zaharia(33%)**, G. Godza(33%), *Dictionar explicativ de informatică modernă – Sisteme de Operare*, PCWORLD, An 5, Nr. 3, pag. 90-95, Martie 1997.
B4. M. Dobre, **M. Zaharia**, G. Godza, *Dictionary of Computer Science – Operating Systems*, PC-WORLD – romanian edition, 5-th year, No. 3, pp. 90-95, March 1997.
- B5. M. Dobre(50%), **M. Zaharia(50%)**, *Dictionar explicativ de informatică modernă – Sisteme de Operare*, PC-WORLD, An 5, Nr. 4, pag. 91 - 94, Aprilie 1997.
B5. M. Dobre, **M. Zaharia**, *Dictionary of Computer Science – Operating Systems*, PC-WORLD – romanian edition, 5-th year, No. 4, pp. 91 - 94, April 1997.
- B6. M. Dobre(34%), **M. Zaharia(33%)**, M. Tâncu(33%), *Dictionar explicativ de informatică modernă – Sisteme de Operare*, PCWORLD, An 5, Nr. 5, pag. 88 - 91, Mai 1997.
B6. M. Dobre, **M. Zaharia**, M. Tâncu, *Dictionary of Computer Science – Operating Systems*, PC-WORLD – romanian edition, 5-th year, No. 5, pp. 88 - 91, May 1997.
- B7. **M. Zaharia**, *Modele de date în baze de date pentru prelucrări grafice*, Informatica Economică, ISSN: 14531305, vol. II, Nr. 7, pag. 64-69, 1998.
B7. **M. Zaharia**, *Data Models in data bases for graphics processing*, Informatica Economică, ISSN: 1453-1305, vol. II, Nr. 7, pp. 64-69 , 1998.

B8. **M. Zaharia**, *Sisteme de interogare în bazele de date pentru prelucrări grafice*, Informatica Economică, ISSN: 1453-1305, vol. II, Nr. 8, pag. 58-66, 1998.

B8. **M. Zaharia**, *Query systems in data bases for graphics processing*, Informatica Economică, ISSN: 1453-1305, vol. II, No. 8, pp. 58-66, 1998.

B9. **M. Zaharia**, Organization of geometric point data information for parallel processing, Scientific Bulletin of POLITEHNICA University of Bucharest, series C: Electrical Engineering, ISSN 1454-234X, vol. 60, No. 3-4, pp. 335347, 1998.

B10. **M. Zaharia**, *Metode de acces la informatie în bazele de date pentru prelucrări grafice*, Informatica Economică, ISSN: 1453-1305, vol. II, Nr. 9, pag. 46-52, 1999.

B10. **M. Zaharia**, *Information access methods in data bases for graphics processing*, Informatica Economică, ISSN: 1453-1305, vol. II, No. 9, pp. 46-52, 1999.

B11. **M. Zaharia**, *Scientific Visualization – A Mature Field of Research in Computer Science*, The Annals of the “Stefan cel Mare” University of Suceava, Electrical Section, ISSN 1222-4316, No. 9, pp. 5-9, 1999.

B12. **M. Zaharia**, *Wavelets Usage for Image Compression*, accepted to publication by Scientific Bulletin of University POLITEHNICA of Bucharest, Series C: Electrical Engineering. ISSN 1454-234X

B13. **M. Zaharia**, *Some Application Architectures for Realistic Image Synthesis in a Distributed Environment*, The Annals of the “Stefan cel Mare” University of Suceava, Electrical Section, ISSN 1222-4316, No. 10, pp.5-9, 1999

B14. **M. Zaharia**, *A parallel ray tracing application. The base engine*, U.P.B. Scientific Bulletin, series C, vol. 63, No. 3, ISSN 1454-234 x, 2001

B15. **M.D. Zaharia**, *Finding the nD Voronoi diagram by geometric algebra means*, U.P.B. Scientific Bulletin, series C, vol. 64, No. 4, ISSN 1454-234x, 2003.

B16. **M.D. Zaharia(85%)**, L. Dorst(15%), *Modeling and Visualization of 3D Polygonal Mesh Surfaces using Geometric Algebra*, Computers & Graphics, An International Journal, vol.28, No.4, 2004

B17. **M.D. Zaharia(85%)**, L. Dorst(15%), *Interface specification and implementation internals of a program module for geometric algebra*, Journal of Logic and Algebraic Programming, vol. 32, No. 2, 2005

Bb – Lucrări publicate în volumele unor manifestări științifice (congrese, conferințe, simpozioane) internaționale
– Scientific papers appeared in Proceedings volumes of International Conferences, Congresses or Symposiums

B18. **M. Zaharia**, *Aspects concerning the implementation of a multidimensional index structure - the BANG file*, Proceedings of The 11-th International Conference on Control Systems and Computer Science, CSCS11 Conference, Bucharest, pp. 232-237, 28-30 May 1997.

B19. **M. Zaharia**, *Multidimensional Data Sets Reduction through Spatial Decomposition*, Proceedings of The 4-th International Conference on Development & Application Systems, DAS '98, Suceava, pp. 205-212, 21-23 May 1998.

B20. **M. Zaharia**, *An Evaluation of a Hierarchical Method for Curvilinear Data Representation*, Proceedings of The 10-th RSACI Symposium on Modeling, Simulation and Identification Systems, SIMSIS-10 Conference, Galati, pp. 208-212, 23-24 October 1998.

B21. **M. Zaharia**, *Approaches for Curve Representation in Spatial Databases*, Proceedings of The Third International Conference on Technical Informatics, CONTI-98, Timisoara, pp. 107-115, 29-30 October 1998.

B22. **M. Zaharia**, *An Evaluation of Three Methods for Arbitrarily Located Data Modeling*, Proceedings of The Fourth International Symposium on Economic Informatics, IE '99, Bucharest, pp. 36-41, 6-9 May, 1999.

B23. **M. Zaharia**, *Procedural Modeling of Natural Phenomena*, Proceedings of The 12-th International Conference on Control Systems and Computer Science, CSCS12 Conference, Bucharest, vol. ii, pp. 324-328, 28-30 May 1999.

B24. M. Dobre(10%), A. Soceanu(5%), **M. D. Zaharia(84%)**, D. Irimescu(1%), *Charging Schemes for Network Systems*, Proceedings of The 12-th International Conference on Control Systems and Computer Science, CSCS12 Conference, Bucharest, vol. ii, pp. 281-285, 28-30 May 1999.

B25. **M. D. Zaharia**, *A client-server application for student time-table automation*, Proceedings of The 14-th International Conference on Control Systems and Computer Science, CSCS14 Conference, Bucharest, pp.299-302, 2-5 July, 2003

B26. **M.D. Zaharia(95%)**, J.M. Geusebroek(5%), *A spatial decomposition based approach for matching point collections*, The 14-th International Conference on Control Systems and Computer Science, CSCS14 Conference, Bucharest, pp. 303-306, 2-5 July, 2003

Bc – **Lucrări publicate în volumele unor manifestări științifice naționale** – Papers appeared in Proceedings volumes of national (Romanian) conferences

B27. **M. Zaharia**, *Emulator de terminal TEKTRONIX-4012 implementat pe Felix M118*. A doua Conferință Națională de Electronică, Telecomunicații, Automatică și Calculatoare, (C.N.E.T.A.C.), București, pag. 270-275, 1984.

B27. **M. Zaharia**, *Emulating a TEKTRONIX 4012 terminal on a Felix M118 machine*, Proceedings of the Second National Conference of Electronics, Telecommunications, Control and Computers (C.N.E.T.A.C.), Bucharest, pp. 270-275, 1984.

B28. C. Stăncescu(70%), M. Stoian(15%), **M. Zaharia(15%)**, *Structura nucleului unui simulator logic*. Primul Simpozion asupra Modernizării Activității de Cercetare în Armată., Institutul de Cercetări al Armatei, I.C.I.T.A. Clinceni, pag. 43-45, 26-27 Noiembrie, 1987.

B28. C. Stăncescu, M. Stoian, **M. Zaharia**, *Structure of the kernel of a logic simulator*, Proceedings of the First Symposium on Modernization of the Research Activity of the Romanian Army, Research Institute of the Romanian Army, Clinceni, pp. 43-45, 26-27 November, 1987.

B29. C. Stăncescu(10%), M. Stoian(80%), **M. Zaharia(10%)**, *Interfața cu utilizatorul la simulatorul logic LIX*. Primul Simpozion asupra Modernizării Activității de Cercetare în Armată, Institutul de Cercetări al Armatei, I.C.I.T.A. Clinceni, pp. 46-49, 26-27 Noiembrie, 1987.

B29. C. Stăncescu, M. Stoian, **M. Zaharia**, *The user interface of LIX logic simulator*. Proceedings of the First Symposium on Modernization of the Research Activity of the Romanian Army, Research Institute of the Romanian Army, Clinceni, pp. 46-49, 26-27 November, 1987.

B30. C. Stăncescu(34%), M. Stoian(33%), **M. Zaharia(33%)**, *LIX – program de simulare la nivel logic*. A 10-a Conferință Anuală de Semiconductoare, C.A.S. '87, Sinaia, pag. 245-248, 7-10 Octombrie, 1987.

B30. C. Stăncescu, M. Stoian, **M. Zaharia**, *LIX – a logic simulator*, Proceedings of the 10-th National Conference on Semiconductors, C.A.S. '87, Sinaia, pp. 245-248, 7-10 October, 1987.

C. CARTI (Ca, Cb) – BOOKS

Ca – **Cărți tipărite în edituri cu ISBN** – Books published by ISBN editors

C1. F. Moldoveanu(50%), Z. Racovitã(20%), G. Hera(15%), S. Petrescu(7.5%), **M. Zaharia(7.5%)**, *Elemente de Graficã pe Calculator*, ISBN: 973-601-290-5, Ed. Teora, Bucuresti, 1996.

C1. F. Moldoveanu, Z. Racovitã, G. Hera, S. Petrescu, **M. Zaharia**, *Elements of Computers Graphics*, ISBN: 973601-290-5, Ed. Teora, Bucharest, 1996.

C2. **M. Zaharia**, *Elemente de Geometrie Algoritmica*, ISBN: 973-9402-19-4, Ed. Printech, Bucuresti, 1998.

C2. **M. Zaharia**, *Elements of Computational Geometry*, ISBN: 973-9402-19-4, Ed. Printech, Bucharest, 1998.

C3. **M. Zaharia**, *Dezvoltarea Aplicatiilor Grafice in OpenGL*, ISBN: 973-652-203-2, Ed. Printech, Bucuresti, 2000

C3. **M. Zaharia**, *Developing Graphics Applications in OpenGL*, ISBN: 973-652-203-2, Ed. Printech, Bucharest, 2000.

C4. F. Moldoveanu(30%), **M.D. Zaharia(30%)**, Z. Racovita(20%), I. Mocanu(10%), C. Tudose(10%), *Grafica 3D in OpenGL*, ISBN 973-652-423-X, Ed. Printech, Bucuresti, 2001.

C4. F. Moldoveanu, **M.D. Zaharia**, Z. Racovita, I. Mocanu, C. Tudose, *3D Computer Graphics in OpenGL*, ISBN 973-652-423-X, Ed. Printech, Bucuresti, 2001.

C5. F. Moldoveanu, I. Mocanu, A. Moldoveanu, **M. Zaharia(1%)**, C. Tudose, D. Dobrota, *Programarea aplicatiilor grafice in Java*, ISBN 973-652-421-3, Ed. Printech, Bucuresti, 2001.

C5. F. Moldoveanu, I. Mocanu, A. Moldoveanu, **M. Zaharia**, C. Tudose, D. Dobrota, *Programming graphics applications in Java*, ISBN 973-652-421-3, Ed. Printech, Bucuresti, 2001.

C6. **M. Zaharia**, *Structuri de date si algoritmi exemple în limbajele C si C++*, ISBN 973-650-059-4, Editura Albastrã, Cluj-Napoca, 2002

C6. **M. Zaharia**, *Data structures and algorithms with examples in C and C++*, ISBN 973-650-059-4, The Blue Publishing Company, Cluj-Napoca, 2002.

C7. **M. D. Zaharia**, *Curs elementar de grafica pe calculator*, ISBN 978-973-650-312-2, Editura Albastra, Cluj-Napoca, 2016.

C7. **M. D Zaharia**, *An Elementary Course of Computer Graphics*, ISBN: 978-973-650-312-2, The Blue Publishing Company, Cluj-Napoca, 2016.

Cb – Cãrți tipãtite de tipografii locale (de institutii) sau de uz intern – Books published students usage

C8. **M. Zaharia**, *Echipamente de afisare graficã si algoritmi de generare a primitivelor grafice*, Litografia Institutului Politehnic Bucuresti, (pentru uzul studentilor) 1992.

C8. **M. Zaharia**, *Hardware devices for graphic display and algorithms to generate graphic primitives*, edited at the printing house of Polytechnic Institute of Bucharest (for students usage), 1992.

C9. **M. Zaharia**, *Structuri de date folosite în prelucrarea graficã a informatiei*, Litografia Universitãtii POLITEHNICA Bucuresti, (pentru uzul studentilor), 1994.

C9. **M. Zaharia**, *Data structures for graphics processing*, edited at the printing house of University POLITEHNICA of Bucharest (for students use), 1994.

D. Indrumare de laborator – Laboratory books

D1. M. Dobre(50%), **M. Zaharia(35%)**, F. Teodorescu(15%), *Sisteme de Operare, Sistemul UNIX - Îndrumar de Laborator*. Litografia Universitãtii POLITEHNICA Bucuresti, 1993.

D1. M. Dobre, **M. Zaharia**, F. Teodorescu, *Operating Systems, The UNIX operating system – Laboratories*, Edited at the printing house of University POLITEHNICA Bucharest, 1993.

D2. F. Moldoveanu(34%), **M. Zaharia(33%)**, Z. Racovitã(33%), *Elemente de Graficã pe Calculator – Îndrumar de Laborator*, Litografia Universitãtii POLITEHNICA Bucuresti, 1995.

D2. F. Moldoveanu, **M. Zaharia**, Z. Racovitã, *Elements of Computer Graphics – Laboratories*, edited at the printing house of University POLITEHNICA Bucharest, 1995.

F. CONTRACTE SI RAPOARTE STIINTIFICE (Fa, Fb) – RESEARCH CONTRACTS AND RESEARCH REPORTS

Fa – **Contracte la care am fost responsabil sau rapoarte de cercetare la care am fost autor unic** – Research contracts where I was chief or research reports where I was the unique author

Fa1 - **Contracte de Cercetare elaborate ca responsabil** – Research Contracts where I was chief

F1. Contract de Cercetare nr. 144/02.12.1988 Tema: *Implementare pachet de programe de proiectare asistată de calculator a cablajelor imprimate*. Beneficiar: UM 02481 Bucuresti (Clinceni),

F1. Research Contract No. 144/02.12.1988 Theme: *Implementation of a software package for computer aided design of printed circuit boards* Beneficiary: Mil.Unit. 02481 Bucharest (Clinceni),

F2. Contract de Cercetare nr. 1075/18.12.1989 Tema: *Implementare pachet de programe de proiectare asistată de calculator în electronica*, Beneficiar: UM 02481 – Ploiesti (Crângul lui Bot)

F2. Research Contract No. 1075/18.12.1989 Theme: *Implementation of a software application for computer aided design in the field of electronics* Beneficiary: Mil. Unit. 02481 – Ploiesti (Crângul lui Bot)

F3. Contract Nr. 883/27.07.1996 Act aditional 1119/98/I (Contract de Cercetare finantat de Ministerul Cercetării si Tehnologiei) Tema: *Cercetări privind gestiunea bazelor de date de imagini utilizând S.G.B.D. relationale în arhitecturi deschise* (Responsabil Temă: prof. dr. ing. M. Dobre, Responsabil fază: s.l. dr. ing. M. Zaharia (responsabil faza 1/1998, faza 1/1999 si faza 2/1999). Contractul face parte din programul complex ORIZONT – 2000 (cod program: 2.1, cod subprogram: 2.1.2) Faza 1/1998: Metode de stocare si regăsire a informatiilor grafice (responsabil fază: Zaharia Marius Dorian) Contract 883/1996, Act aditional 67/1999/II. Beneficiar ANSTI. Faza 1/1999: Studiul algoritmilor de regăsire eficientă a informatiei geometrice în baze de date de imagini. (responsabil fază: Zaharia Marius Dorian) Faza 2/1999: Implementarea si evaluarea performantelor unor algoritmi de regăsire eficientă a informatiei geometrice. (responsabil fază: Zaharia Marius Dorian)

F3. Research Contract No. 883/27.07.1996 1119/98/I (Research Contract financed by the Ministry of Research and Technology) Theme: *Researches concerning image data bases using relational DBMS in open architectures* (this contract is part of the research program ORIZONT – 2000). Theme Responsible: prof. dr. ing. M. Dobre. In this general theme I was responding on the phases from 1998 and 1999 as follows: Phase 1/1998: Methods for storage and retrieval of graphics information Phase 1/1999: Algorithms for efficient retrieval of geometric information in image data bases Phase 2/1999: Implementation and evaluation of some algorithms for efficient retrieval of geometric information

Fa2 – **Rapoarte de cercetare la care este unic autor** – Research Reports where I was the unique author

F4. **M. Zaharia**, *Sinteza la nivel înalt a sistemelor hardware (Algoritmi utilizati în sistemele HLS)*, Raport de Cercetare în cadrul proiectului TEMPUS JEP 2717-91/1, Raport de cercetare înregistrat sub numarul TCRC1-94 la Centrul de Inginerie Electrică Asistată de Calculator U.P.B., Universitatea POLITEHNICA Bucuresti, Institut Supérieur d'Électronique du Nord Lille Franta, 1994.

F4. **M. Zaharia**, *High Level Synthesis of Hardware systems – Algorithms for HLS systems*, Research report developed in the Joint European Research Project TEMPUS JEP 2717-91/1 in collaboration with “Institut Supérieur d'Électronique du Nord” (I.S.E.N.), Lille France, The Research report is registered with label: TCRC1-94 at the Center for Computer Aided Engineering of University POLITEHNICA Bucharest, 1994.

F5. **M. Zaharia**, *Elaborarea Algoritmilor pentru Prelucrări Grafice*, Referat în cadrul programului de pregătire doctorat, înregistrat ca raport de cercetare sub numărul C101-94 la Catedra de Calculatoare a Universității POLITEHNICA Bucuresti, 1994.

F5. **M. Zaharia**, *Building algorithms for graphics processing*. This report was realized during the doctoral stage and is labeled C101-94 at the Computer Department of the University POLITEHNICA Bucharest, 1994.

F6. **M. Zaharia**, *Algoritmi paraleli/distribuiti în domeniul graficii de sinteză si al prelucrărilor de imagini*, Raport de Cercetare in cadrul proiectului TEMPUS S-JEP 07101/94, (Raport de cercetare înregistrat sub numărul C102-96 la Catedra de Calculatoare a U.P.B.) apărut în: Aspecte ale elaborării algoritmilor distribuiti, pag. 370-493, Universitatea POLITEHNICA Bucuresti, Politecnico di Torino, 1996.

F6. **M. Zaharia**, *Parallel/distributed algorithms in the field of graphic synthesis and image processing*, Research project developed in collaboration with “Politecnico di Torino” (Italy) and financed by the Structured Joint European Project TEMPUS S-JEP 07101/94. It is registered as C102-96 at the Computer Department of the

University POLITEHNICA Bucharest. The research report was published in the book: Aspects of the development of distributed algorithms, pp. 370-493, University POLITEHNICA Bucharest and Turin Polytechnic, 1996.

F7. **M. Zaharia**, Research report "Computer Graphics from a geometric algebra perspective". This research report was developed at the University of Amsterdam/Netherlands, where I was postdoctoral researcher (supervisor Prof. dr. Leo Dorst). The general research contract was "Geometric Algebra a new foundation for computer graphics" and was financed by the Dutch National Science Foundation (NSF 9903/2003).

Fb - **Contracte la care a participat sau la care este coautor** - Research contracts where I am not the main author

(F8)-(F11) At Research Institute for Computers (before 1989)

F8. Contract de Cercetare Export CE Nr. 25-420/84001 Tema: *Sistem de proiectare asistată de calculator ELECTRO-CAD* Beneficiari: VEB Mikroelektronik Mühlhausen, VEB ROBOTRON Sömmerda, VEB Mikroelektronik Erfurt, Schiffbau Kombinat Rostock, Meteorologische Dienst der DDR Postdam, Forschung und Entwicklung im Dienste der Eisenbahn Blankenburg/Harz Responsabil contract: mat. D. Costăchescu

F8. Research Contract CE No. 25-420/84001 Theme: *The CAD-system ELECTRO-CAD* Beneficiaries: VEB Mikroelektronik Mühlhausen, VEB ROBOTRON Sömmerda, VEB Mikroelektronik Erfurt, Schiffbau Kombinat Rostock, Meteorologische Dienst der DDR Postdam, Forschung und Entwicklung im Dienste der Eisenbahn Blankenburg/Harz (all located in German Democratic Republic) Responsible of the contract: mat. D. Costăchescu

F9. Contract de Cercetare Nr. 633/26.05.1989, Tema: *Implementarea unui editor grafic pentru trasare de curbe* Beneficiar: Institutul National de Metrologie Bucuresti Responsabil contract: ec. Budu Cristina

F9. Research Contract No. 633/26.05.1989, Theme: *Implementation of an interactive graphic editor* Beneficiary: National Institute for Metrology Bucharest Responsible of the contract: ec. Budu Cristina

F10. Contract de Cercetare Nr. 687/4.07.1989 Tema: *Pachet de subrutine de simulare logică a principalelor circuite integrate din seria TTL 7400 standard.* Beneficiar: UM 02512 Bucuresti Responsabil contract: eng. Stoian Mihai

F10. Research Contract No. 687/4.07.1989 Theme: *A Library for logic simulation models for TTL 7400 series of IC* Beneficiary: Mil. Unit. 02512 Bucharest Responsible of the contract: eng. Stoian Mihai

F11. Contract de Cercetare Nr. 1113/18.01.1990 Tema: *Implementare pachet de programe pentru proiectare asistată de calculator a documentatiei pentru scheme electronice* Beneficiar: Întreprinderea Electrotehnica Bucuresti Responsabil contract: ec. Budu Cristina

F11. Research Contract No. 1113/18.01.1990 Theme: *Implementation of a software package for computer aided design of a documentation of digital systems* Beneficiary: Electrotehnica Factory Bucharest Responsible of the contract: ec. Budu Cristina

(F12)-(F14) At University POLITEHNICA Bucharest (after 1990)

F12. Contract Nr. 5001C/1993, (Tema B50) Tema: *Studiul arhitecturilor sistemelor de operare* Tema s-a desfășurat pe un singur an. Finantator Ministerul Învățământului. Responsabil temă: prof. dr. ing. Marian Dobre

F12. Research Contract No. 5001C/1993, (Theme B50) Theme: *Study of the Operating Systems Architectures* The theme was financed by the Romanian Ministry of Education during one year period. Responsible of the theme: prof. dr. ing. Marian Dobre

F13. Contract de Cercetare Nr. 3001/1994 (Tema B101) Tema: *Elaborarea de Instrumente pentru Evaluarea Sistemelor de Operare* Faza 1/1995: Documentare, studierea mecanismelor de măsurare a performanțelor oferite de către nucleu, 1994 Faza 2/1995: Identificarea parametrilor de performanță a sistemelor de operare. Construirea unui set restrâns de instrumente pentru măsuratori de performanțe, 1995 Responsabil contract: prof. dr. ing. Marian Dobre F12.

F13. Research Contract No. 3001/1994 (Theme B101) Theme: *Building instruments for evaluation of Operating Systems* Phase 1/1995: Documentation. Study of the mechanisms for performance measurement offered by the O.S. kernel., 1994 Phase 2/1995: Identification of the characteristic performance parameters of an operating system. Building a small set of instruments for performance measurements. 1995 Responsible of the contract: prof. dr. ing. Marian Dobre

F14. Contract de Cercetare Nr. 7001/1997 (Tema 113/1406) Tema: *Tehnologii Moderne în Elaborarea Sistemelor de Operare* Faza 1/1996: "Studiu asupra tehnicilor și mecanismelor existente pentru dezvoltarea mediilor de

evaluare a performante în medii distribuite”, 1996 Faza 1/1997: “Studiu asupra problemelor legate de sincronizarea ceasurilor fizice ale unor masini care lucrează în paralel”, 1997 Faza 2/1997: “Implementarea unor mecanisme pentru sincronizarea ceasurilor fizice ale unor masini care lucrează în paralel”, 1997 Responsabil contract: prof. dr. ing. Marian Dobre

F14. Research Contract No. 7001/1997 (Theme 113/1406) Theme: *Modern Technologies for Operating Systems Design* Phase 1/1996: Studies of the techniques for the development of performance evaluation mechanisms in distributed environments 1996 Phase 1/1997: Studies about the problems related to the synchronization of watches of machines that are parallelly working, 1997 Phase 2/1997: Implementing some mechanisms for the synchronization of watches of machines that are parallelly working, 1997 Responsible of the contract: prof. dr. ing. Marian Dobre

G. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE - UNPUBLISHED

G1. **M. Zaharia**, *Organization of Geometric Information for Parallel Processing*, Workshop on Parallel and Distributed Systems, Bucharest, Commission of the European Communities, Task Force Human Resources, Education, Training and Youth, Structural Joint European Project S_JEP-07101-94 (DISCO), 26-28 May 1997.