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LISTA DE LUCRARI

1. Teza de doctorat

T1. **Nitu,C., 1988** - *Studiul si perfectionarea dinamicii sistemelor de imprimare prin impact*, Institutul Politehnic Bucuresti

2. Carti/cursuri publicate in edituri recunoscute

Ca1. Demian,T., Tudor, D., Curita, I., **Nitu, C.**, 1984 - *Bazele proiectarii aparatelor de mecanica fina, vol.1*, Editura Tehnica, Bucuresti, 432 pag.

Ca2. Demian,T., Tudor, D., Curita, I., **Nitu, C.**, 1986 - *Bazele proiectarii aparatelor de mecanica fina, vol.2*, Editura Tehnica, Bucuresti, 494 pag.

Ca3. Tanasescu, Fl., Stanciu, V., Nitu, S., **Nitu,C.**, 1990 - *Agenda tehnica*, Editura Tehnica, Bucuresti, 624 pag., ISBN 973-31-0107-9

Ca4. **Nițu,C.**, Olaru, D., Sticlaru, C., 2011 – *Componentele sistemelor mecanice și micromecanice*, Editura Academiei Oamenilor de Știință, București

3. Indrumare publicate

I1. **Nitu,C.**, 1997 - *Metode numerice - Aplicatii in MATHCAD*, Litografia UPB

I2. Grecu,E., **Nitu,C.**, Rizescu,D., Rizescu,C., 1996 - *Pro/ENGINEER - LecTii introductive*, Editura Presa NaTionala, Bucuresti, 43 pag.

I3. **Nitu,C.**, Grecu,E., Comeaga, C.D., Alexandrescu,N., 1996 - *Microactuators for Microrobots*, Editura Presa Nationala, Bucuresti, 130 pag.

I4. **Nitu,C.**, Grecu,E., Ionascu,G., Raetchi,V., 1996 - *Piezoactuator Manufacturing Process*, Editura Presa Nationala, Bucuresti, 83 pag.

4. Capitole publicate in volume colective

D1. Demian,T., **Nitu,C.**, Nitu,S., 1990 - *Dinamica sistemelor de imprimare prin impact si implicatiile ei constructive*, in volumul "TCMM" nr.7, **Editura Tehnica**, Bucuresti, pag.54 – 69, ISBN 973-31-0240-7

D2. Demian.T., Antonescu,S., Ionascu,G., **Nitu,C.**, 1988 - *Noi tehnologii pentru piese de mecanica fina. Aspecte privind tehnologia tamburilor de imprimanta*, in volumul "Noi dimensiuni ale revolutiei stiintifice si tehnice. Noi tehnologii, sisteme, surse energetice", **Editura stiintifica si enciclopedica**, Bucuresti, pag.138-148

5. Articole in reviste de specialitate de circulatie internationala recunoscute

Reviste cotate ISI sau indexate în baze de date internaționale

Ris1. **Nitu,C.**, Nitu,S., Gramescu,B., 2005 - *Application of Electromagnetic Actuators to a Variable Distribution System for Automobile Engines*, Journal of Materials Processing Technology, vol. 161/1-2, pag. 253-257, Elsevier, ISSN 0924-0136 (ISI Web of Science)

Ris2. **Nitu,C.**, Gramescu,B., Comeaga,C.D., Trufasu,A.O., 2005 - *Opto-Mechatronic System for Position Detection of a Mobile Mini-Robot*, IEEE Transactions on Industrial Electronics, vol.52 (4), pag. 969-973, august, 2005 (ISI Web of Science)

Ris3. Pavelescu,D., Pavelescu,G., Gherendi,F., **Nitu, C.**, Dumitrscu, Gh., Nitu, S., Anghelita,P., 2005 – *Investigation of the Rotating Arc Plasma Generated in a Vacuum Circuit Breaker*, IEEE Transactions on Plasma Science, vol. 33 (5), pag. 1504-1510, oct. 2005 (ISI Web of Science)

- Ris4. Nitu, S., **Nitu, C.**, Tuluca, G., Dumitrescu, G., 2007 - *Electromagnetic actuator with magnetic stored energy*, Journal of Materials Processing Technology, vol. 181 (1-3), pag. 153-158, ian. 2007 (ISI Web of Science)
- Ris5. **Nitu, C.**, Nitu, S., Gramescu, B., 2008 - *Electromagnetic actuator modeling for modular robotics applications*, Journal of Optoelectronics and Advanced Materials, vol.10 (5), pag. 1137-1142, mai 2008, (ISI Web of Science)
- Ris6. Nitu, S., **Nitu, C.**, Mihalache, C., Anghelita, P., Pavelescu, D., 2008 - *Comparison between model and experiment in studying the electric arc*, Journal of Optoelectronics and Advanced Materials”, vol.10 (5), pag. 1192-1196, mai 2008 (ISI Web of Science)
- Ris7. Nitu, S., Pavelescu, D., **Nitu, C.**, Dumitrescu, G., Anghelita, P., 2007 - *Upon the Interaction of Magnetic Field and Electric Arc in Low Voltage Vacuum Circuit-Breakers*, Mathematics in Industry nr. 11, Springer Verlag Berlin Heidelberg, pag. 73-79, ISBN 978-3-540-71979-3 ((ISI Web of Science și Springerlink)
- Ris8. **Nitu, C.**, Comeaga, C.D., Gramescu, B., 2002 - *Micropositioning devices for optical applications*, Proceedings of SPIE, nr. 5227, pag. 355-360, 2002 (ISI Web of Science și INSPEC)
- Ris9. **Nitu, C.**, Comeaga, C.D., Gramescu, B., 2004 – *Three DOF Actuator for Optical Parts Micropositioning*, in „Proceedings of SPIE”, no. (INSPEC)
- Ris10. **Nitu, C.**, Nitu, S., 2004 – *An Improved Analytical Model for Electromagnetic Actuators Design*, in “Elektronika” nr.8-9/2004, pag.47-49, ISSN 0033-2089, Varsovia (indexată INSPEC)

Alte reviste straine

- Rio1. **Nitu, C.**, Nitu, S., Gramescu, B., Alionte, C.G. - *Modelling of Electromagnetic Actuators for the Intake & Exhaust Valves of Automobile Engines*, in “Machine Dynamics Problems” Vol.28, No.4/2004, pag.47-54, Warsaw University of Technology, ISSN 0239-7730
- Rio2. Nitu, S., **Nitu, C.**, Pavelescu, D. - *Modeling of Discharge Phenomena in Electromechanical Switching Devices*, in “Machine Dynamics Problems”, Vol.28, No.4/2004, pag.55-62, Warsaw University of Technology, ISSN 0239-7730

6. Articole in reviste de specialitate din țară recunoscute CNCSIS

- Rns1. Alionte, C.G., **Nițu, C.**, Alexandrescu, N., 2006 – *Electromagnetic Actuator of a Bidirectional Positioning Table*, Acta Technica Napocensis -Series Applied Mathematics and Mechanics, 49, vol. II, 2005, pag. 185-190, ISSN 1221-5872
- Rns2. **Nițu, C.**, Nițu, S., Grănescu, B., 2006 – *Graph Methods for Mechatronic Systems Modeling*, Acta Technica Napocensis – Series Applied Mathematics and Mechanics, 49, vol. II, 2005, pag. 349-354, ISSN 1221-5872
- Rns3. Grănescu, B., **Nițu, C.**, Alexandrescu, N., 2006 – *The Dynamic Model of a Worm-like Mobile Robot*, Acta Technica Napocensis – Series Applied Mathematics and Mechanics, 49, vol. II, 2005, pag.57-62, ISSN 1221-5872
- Rns4. **Nitu, C.**, Gramescu, B., Nitu, S., 2008 - *Self-reconfiguring and Self-replicating Modular Robot*, Buletinul Institutului Politehnic din Iași Tomul LIV (LVIII), Fasc. 4, 2008, Construcții de Mașini, pag. 203-212
- Rns5. Grănescu, B., **Nitu, C.**, Nitu, S. - *Magnetic Coupling System for the Modules of a Self Reconfigurable Modular Robot*, Buletinul Institutului Politehnic din Iași Tomul LIV (LVIII), Fasc. 3, 2008, Construcții de Mașini, pag. 75-80
- Rns6. Comeaga, C.D., **Nitu, C.**, Gramescu, B., 1999 - *Using Piezoelectric Materials in Mechatronic Systems*, Acta Universitatis Cibinensis, Vol.XLI, Seria Tehnica, H. Inginerie electrica si electronica, , pag.71-76, ISSN 1221-4949
- Rns7. Demian, T., **Nitu, C.**, 1994 - *Upon the strength and wear calculation of the fine mechanics plastic gears*, in “Buletinul IPB”, seria D, vol.55, nr.3-4, ISSN 1454-2358
- Rns8. Demian, T., **Nitu, C.**, 1993 - *Particular geometrical aspects of the fine mechanics plastic gear calculation*, in “Buletinul IPB”, seria D, vol. 55, nr.3-4, pag. 84 – 91, ISSN 1454-2358
- Rns.9 Nitu, S., **Nitu, C.**, 1992 - *Dynamic Behaviour of the Magnetic Stored Energy Matrix Printheads*, in “Buletinul IPB”, tomul LIV, Nr.3-4, pag.169-177, ISSN 1454-2358
- Rns10. Nitu, S., **Nitu, C.**, 1990 - *Regimul dinamic al contactorului in vid de medie tensiune, $U_n = 7,2 \text{ kV}$, $I_n = 400 \text{ A}$* , in “Buletinul IPB”, seria Electrotehnica, tomul L, pag.99 – 111, ISSN 1454-2358

- Rns11. Demian,T., **Nitu,C.** , 1990 - *Uzura capetelor de imprimare matriceale*, in “Buletinul IPB”, seria Mecanica, volumul 51, nr.2, pag.29-34, ISSN 1454-2358
- Rns12. Nițu, S., **Nițu, C.**, Angheliță, P., 2009 - *Modelarea procesului de comutație în întreruptoare de mare putere și j.t.*, EEA – Electrotehnica, Electronica, Automatica, Vol. 57, nr2/2009, ISSN 0376-4745
- Rns13. **Nițu,C.**, Nitu,S., Comeaga,D., 1998 - *Actuatori si senzori piezoelectrice stratificați*, EEA Electrotehnica 46, nr.7-8, pag. 1-5, ISSN 0376 – 4745
- Rns14. Nitu,S., Popescu,C., **Nițu,C.**, 1993 - *Verificarea functionarii in regim dinamic a contactorului de medie tensiune cu comutatie in vid*, in “Electrotehnica, Electronica si Automatica” nr.3, pag 51 – 54, ISSN 0376-4745
- Rns15. Demian,T., **Nițu,C.**, 1988 - *Influenta frecarii dintre ace si ghidaje asupra functionarii capetelor de imprimare matriceale balistice*, Studii si cercetari de mecanica aplicata, tomul 47, nr.4, pag. 385-391

Alte reviste de specialitate de circulație națională

- Rno1. Grănescu, B., **Nițu,C.**, 2008 – *Lizard-like Mobile Robot*, Mecatronica nr.1/2008, pag.41-43, ISSN 1583-7653
- Rno2. Rizescu, C.I., Alexandrescu, N., Udrea, C., **Nițu, C.**, Kostrakievici, S., Rizescu, D., 2007 - *Modernization of the Laboratory of Ultra Precision Systems for Precision Engineering for a High Efficiency Research – Part I*, Mecatronica nr.2/2007, pag.53-55, ISSN 1583-7653
- Rno3. **Nițu, C.**, Grănescu, B., Comeagă, C.D., 2006 - *Modular Robotic Chain with Crawling Movement*, Mecatronica nr.1/2006, pag. 8-13, ISSN 1583-7653
- Rno4. Comeagă, C.D., Grănescu, B., **Nițu, C.**, 2006 - *Dual Positioning System with DC Motor and Piezoelectric Actuator*, Mecatronica nr.1/2006, pag. 62-67, ISSN 1583-7653
- Rno5. **Nițu, C.**, Comeagă, C.D., Nițu,S., Grănescu, B., 2005 - *Binary robot piezoelectrically driven*, Mecatronica nr.2/2005, pag. 34-37, ISSN 1583-7653
- Rno6. **Nițu, C.**, Comeagă, C.D., Grănescu, B., 2005 - *Vibration control by use of piezoelectric patches*, Mecatronica nr.2/2005, pag. 38-41, ISSN 1583-7653
- Rno7. **Nițu,C.**, Gramescu,B., Alexandrescu, N., 2005 - *Electrodermatom – aspecte privind proiectarea mecanismelor de taiere si de avans*, Mecatronica nr.1/2005, pag.5-8, ISSN 1583-7653
- Rno8. **Nițu,C.**, Gramescu,B., Alionte,C.G, 2004 - *Variable Distribution System for Combustion Engines*, Mecatronica nr.4/2004, pag.71-75, ISSN 1583-7653
- Rno9. **Nițu,C.**, Gramescu,B., Comeaga, C.D., Mihalachi, D., 2004 – *Binary Actuated Flexible Minirobot*, Mecatronica nr.3/2004, pag. 68-72, ISSN 1583-7653
- Rno10. **Nițu,C.**, Alexandrescu,N., Gramescu,B., Nitu,S.,2004 – *Linear Actuator with Shape Memory Wire*, Mecatronica nr.3/2004, pag. 73-76, ISSN 1583-7653
- Rno11. **Nițu,C.**, Nitu, S., Gramescu, B. - *Modeling and Simulation Environments for Mechatronics*, Mecatronica nr.2/2004, pag.61-63, ISSN 1583-7653
- Rno12. Gramescu,B., **Nițu,C.**, Alexandrescu,N.,2004 - *Dynamic Analysis of a Motion Axis from a Redundant Multiple-Joint Mobile Mini-Robot*, Mecatronica nr.2/2004, pag.44-47, ISSN 1583-7653
- Rno13. **Nițu,C.**, 2003 – *Analiza comportarii dinamice a actuatorilor electromagnetici*, Mecatronica nr.1, pag.37-44, ISSN 1583-7653
- Rno14. Avram,M., **Nițu,C.**, Duminița,D., Tuineag,S., 2003 – *Theoretical and experimental analysis of a pneumatic proportional valve with PWM control*, in „Revista Româna de Mecanica Fina, Optica & Mecatronica”, nr.23, 2003 (13), pag.148-151
- Rno15. Gramescu, B., **Nițu, C.** , 2003 - *Multi-joint minirobot with worm-like movement*, in “Revista de mecanica fina si optica”, nr.23, 2003 (13), pag.141-145, ISSN 1220-6830
- Rno16. Alexandrescu,N., Panaitopol,H., Avram,M., **Nițu,C.**, Kostrakievici,S., 2002 – *Structurarea bazei materiale si a lucrarilor de laborator pentru un colegiu de mecatronica – proiect finanțat de Banca Mondiala*, in “Revista de mecanica fina si optica”, Supliment nr.21a, Brasov, oct.2002, pag.9-17, ISSN 1220-6830
- Rno17. Gramescu,B., **Nițu,C.**,2002 – *Microrobot mobil actionat cu arcuri bimetalice* - in “Revista de mecanica fina si optica”, Supliment nr.20b, Brasov, oct.2002, pag.175-180, ISSN 1220-6830
- Rno18. **Nițu,C.**, Gramescu,B., Alionte,C.,2002 – *Actuator electromagnetic bipozitional*, in “Revista de mecanica fina si optica”, Supliment nr.20b, Brasov, oct.2002, pag.,109-114 ISSN 1220-6830

- Rn19. Trufasu, A.O., **Nitu,C.**, Gramescu, B.,2002 – *Lampa de fotopolimerizare. Metoda de testare computerizata a functionarii*, in “Revista de mecanica fina si optica”, Supliment nr.20a, Brasov, oct.2002, pag.181-184, ISSN 1220-6830
- Rno20. Alexandrescu,N., **Nitu,C.** s.a., 2002 – *Centrul National de Mecatronica – un pol de dezvoltare a mecatronicii in Romania*, in “Revista de mecanica fina si optica”, Supliment nr.20a, Brasov, oct.2002, pag.13-20, ISSN 1220-6830
- Rno21. Cojoc,D., Gramescu,B., **Nitu,C.**, 2001 – *Masurarea deplasarii tridimensionale a unui microdispozitiv de prehensiune prin suprapunerea imaginilor stereo*, in “Constructia de Masini”, vol. 53, nr.12, pag.16-19, ISSN 0573-7419
- Rno22. Alexandrescu,N., Avram,M., **Nitu,C.**, 2000 – *Sistem de actionare adaptiv in concepie mecatronica*, in “Constructia de Masini”, vol. 52, nr.8, pag.1-4, ISSN 0573-7419
- Rno23. Comeaga,C.D., **Nitu,C.**, Gramescu,B., 2000 – *Neliniaritatile si histerezisul actuatorilor piezoelectrice*, in “Revista de mecanica fina si optica”, nr.18, pag.1854-1857, ISSN 1220-6830
- Rno24. Comeaga,C.D., **Nitu,C.**,Gramescu,B., 1999 - *Sisteme mecatronice active, bazate pe materiale piezoelectrice*, in “Revista de Mecanica Fina & Optica”, supliment nr.3, Bucuresti, septembrie 1999, pag.16-22, ISSN 1220-6830
- Rno25. Comeaga, C.D.,**Nitu,C.**, Voiculescu,D., 1999 - *Dispozitiv de prindere cu trimorfi piezo-electrici*, in “Revista de mecanica fina si optica”, nr.16, pag. 1618-1621, ISSN 1220-6830
- Rno26. Comeaga C.D., **Nitu,C.**, Voiculescu,D., 1999 - *Ghidaj activ cu straturi piezoelectrice*, in “Revista de mecanica fina si optica”, nr.15, pag. 1515-1517, ISSN 1220-6830
- Rno27. Comeaga, C.D., **Nitu, C.**, Gramescu, B., 1999 - *Studiul dinamic al trimorfului piezoelectric*, in “Constructia de masini”, Vol. 51, No. 5, pag.8-11, ISSN 0573-7419
- Rno28. Trufasu,A.O., **Nitu,C.**, Gramescu,B., Ilina,D., 1998 – *Software for determination of the route of a light source object*, in “Revista de Mecanica Fina & Optica”, supliment nr.2, Timisoara, pag.495-498, ISSN 1220-6830
- Rno29. Trufasu, A.O., **Nitu,C.**, 1998 – *The method and the device for xOy co-ordinates determination of an object position*, in “Revista de Mecanica Fina & Optica”, supliment nr.2, Timisoara, pag.417-420, ISSN 1220-6830
- Rno30. **Nitu,C.**, Nitu,S., 1998 - *Modelarea si simularea sistemelor mecatronice in medii de programare grafica*, in “Revista de Mecanica Fina & Optica”, supliment nr.2, Timisoara, pag. 449-452, ISSN 1220-6830
- Rno31. **Nitu,C.**, Nitu,S., Comeaga,D., Gramescu,B., 1998 - *Utilizarea materialelor piezoelectrice in mecatronica*, in “Revista de Mecanica Fina & Optica”, supliment nr.2, Timisoara, pag.673-676, ISSN 1220-6830
- Rno32. **Nitu,C.**, Comeaga,D., Nitu,S., Gramescu,B., Trufasu,O., 1998 - *Minirobot mobil redundant*, in “Revista de Mecanica Fina & Optica”, supliment nr.2,Timisoara, pag.607-610, ISSN 1220-6830
- Rno33. Alexandrescu,N., **Nitu,C.**, Udrea,C.,Kostrakievici,S., 1998 - *Stadiul actual in domeniul cercetarii universitare si a invatamanului de mecatronica*, in “Revista de Mecanica Fina & Optica”, supliment nr.2, pag. 1-4, ISSN 1220-6830
- Rno35. Nitu,S., **Nitu,C.**, 1998 - *Modelarea sistemelor mecatronice in mediile de programare SPICE*, in Constructia de Masini nr.11, pag.6-9, ISSN 0573-7419
- Rno36. Nitu,S., **Nitu,C.**, 1998 - *Microactuator electrostatic cu trei grade de libertate*, in Revista de Mecanica Fina si Optica, nr.13, pag.1282-1286, ISSN 1220-6830
- Rno37. **Nitu,C.**, Grecu,E., 1997 - *Particularitati constructive si tehnologice ale rotilor dintate din materiale plastice*, in “Constructia de Masini”, nr.11-12, pag. 76-80, ISSN 0573-7419
- Rno38. Grecu, E., **Nitu,C.**, Rizescu,D.,Rizescu,C., 1997 - *Aplicatii ale aliajelor cu memorie de forma in mecatronica*, in “Revista de Mecanica Fina & Optica”, nr.11, pag.1113-1117, ISSN 1220-6830
- Rno39. Laurent,C., Munier, T., Grecu, E., **Nitu, C.**, 1997 - *Alliages à mémoire de forme utilisés dans la construction d'un actionneur bidirectionel*, in “Revista de Mecanica Fina & Optica”, nr.12, pag. 1196-1200, ISSN 1220-6830
- Rno40. **Nitu,C.**, Grecu,E., 1997 - *Minirobotica si microrobotica, subdomenii dinamice ale mecatronicii*, in “Revista de Mecanica Fina & Optica”, nr.11, pag.1107-1112, ISSN 1220-6830
- Rno41. **Nitu, C.**, Nitu, S.,Avram,M.,1996 - *Analiza, modelarea si simularea sistemelor de pozitionare a capetelor de la imprimantele seriale*, in “Constructia de masini”,nr.3, pag. 5 – 9, ISSN 0573-7419
- Rno42. Demian,T., Avram,M., Alexandrescu,N., **Nitu,C.**, Acseste,N., 1995 - *Distribuitoare proportionale cu comanda diferentia*, in “Constructia de masini”, nr. 10–11, pag.1-8, ISSN 0573-7419

- Rno43. Nitu, S., **Nitu, C.**, 1994 - *Analiza si modelarea numerica a actionarilor cu electromagneti*, in "Constructia de Masini" nr.11 - 12, pag. 33 – 36, ISSN 0573-7419
- Rno44. **Nitu, C.**, Avram, M., 1993 - *Fortele de frecare la etansarile cu inele "O"*, in "Constructia de masini" nr.8-9, pag . 51 – 54, ISSN 0573-7419
- Rno46. Demian,T., **Nitu,C.**, 1993 - *Asupra geometriei transmisiilor prin curele dintate utilizate in mecanica fina*, in "Constructia de Masini" nr.8-9, pag. 42 – 50, ISSN 0573-7419
- Rno47. Demian,T., **Nitu,C.**, 1988 - *Influenta reducerii dimensiunilor asupra frecarii din lagarele pentru mecanica fina*, in "Constructia de Masini" nr.11, pag. 577-579
- Rno48. Turbatu,Gh.,Tudor,D., **Nitu,C.**, Popa,G., 1987 - *Aspecte constructive si functionale in proiectarea unui plotter cu masa plana*, in "Constructia de Masini" nr.9, pag.448-450
- Rno49. Demian,T., **Nitu,C.**, Selevet,V., 1987 - *Probleme ale constructiei si comportarii dinamice a capetelor de imprimare matriceale cu ace*, in "Constructia de Masini" nr.9, pag.442-447
- Rno50. Demian,T., **Nitu,C.**, 1982 - *Implicatii constructive ale fenomenului de impact asupra capetelor de imprimare matriceala cu ace*, in "Constructia de Masini" nr.12, pag.644-646
- Rno51. Demian,T., **Nitu,C.**, 1980 - *Asupra calculului rotilor dintate cilindrice din materiale plastice*, in "Constructia de Masini" nr.6, pag. 334-339

7. Articole publicate in volumele unor manifestari stiintifice internationale

Cotate ISI

- Vi1. **Nitu, C.**, Gramescu, B., Nitu, S., Comeaga, C.D., 2008 - *Self-reconfiguring modular robot*, PROCEEDINGS 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL II, ISBN: 978-1-4244-2576-1
- Vi2. Nitu, S., **Nitu, C.**, Tuluca, G., Dumitrescu, G., 2008 - *Dynamic Behavior of a Vacuum Circuit Breaker Mechanism*, ISDEIV 2008: PROCEEDINGS OF THE XXIIIIRD INTERNATIONAL SYMPOSIUM ON DISCHARGES AND ELECTRICAL INSULATION IN VACUUM, VOLS 1 AND 2, pag. 181-184, 2008, ISSN: 1093-2941, ISBN: 978-973-755-382-9
- Vi3. Gramescu,B., **Nitu,C.**, Alexandrescu,N., 2005 - *Modeling of a mobile robot with worm-like movement*, Eurocon 2005: The International Conference on Computer as a Tool, Vol 1 and 2 , Proceedings: pag. 1204-1207, ISBN: 1-4244-0049-X
- Vi4. Nitu, S., **Nitu, C.**, Anghelita, P., 2005 - *Electric arc model, for high power interrupters*, Eurocon 2005: The International Conference on Computer as a Tool, Vol 1 and 2 , Proceedings: pag. 1442-1445, ISBN: 1-4244-0049-X
- Vi5. Pavelescu,D., Braic,V., Gherendi,F., Braic, M., **Nitu,C.** , s.a., 2004 - *Investigation of the Rotating Arc Plasma Generated in Transverse Magnetic Field (TMF) Contacts of Vacuum Interrupter*, Proceedings of XXI-st International Symposium on Discharges and Electrical Insulation in Vacuum, Vol.1, pp.156-159, IEEE 04CH37565; ISBN 0-7803-8461-X
- Vi6. Demian,T., Udrea, C., Panaitopol, H., **Nitu,C.**, 1992 - *Adaptable to shape and dimension grippers*, 2-nd International Symposium on Measurement and Control in Robotics, Tsukuba, pag. 525 - 531

Manifestari stiintifice cu referenti si comitet international de program

- Vi7. Trufașu. A.O., Comeagă, C.D., **Nițu,C.**, 2009 – *Reflected HotspotUsed in Industrial Vision*, ISOT 2009: INTERNATIONAL SYMPOSIUM ON OPTOMECHATRONIC TECHNOLOGIES, Istanbul, pag. 371-376, ISBN 978-1-4244-4210-2
- Vi8. **Nițu,C.**, Grănescu,B., Nițu,S., 2009 - *Piezoelectric Devices for Power Harvesting on Mechanical Displacements*, 6th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nanomaterials, Bucharest, 27-29.07.2009, pag. 43-44, ISBN 978-606-521-346-3
- Vi9. **Nitu C.**, Gramescu, B., Nitu,S., Boboccea, G., 2008 - *Autonomous Modular Robotic Chain*, 5th Europe – Asia and 7th France - Japan Congress on Mecatronics - MECATRONICS'2008, Le Grand Bornand, 21-23.05.2008, Paper #142
- Vi10. Trufașu, A.O., Nițu, C., 2009 - *Visual and IR Survey and Control on Polishing Optical Glass*, 5th Europe – Asia and 7th France - Japan Congress on Mecatronics - MECATRONICS'2008, Le Grand Bornand, 21-23.05.2008, Paper #116

- Vi11. Gramescu,B., **Nitu,C.**, Alexandrescu,N., 2004 - *Modeling for Design of a Mobile Mini-robot with Worm-like Movement*, in "Proceedings of IEEE 10th Conference on Methods and Models in Automation and Robotics", vol. 2, pag.973-978, ISBN 83-88764-04-7
- Vi12. **Nitu,C.**, Nitu, S., Gramescu,B.,2004 - *Modeling and Simulation Environments for Mechatronics* - The 7-th International Conference on Mechatronics and Precision Engineering COMEFIM'7, 27-29 Mai 2004, Bucuresti – Romania, pag.61-62 (+CD)
- Vi13. Gramescu,B., **Nitu,C.**, Magureanu, O.,2004 - *Identification of a Mobile Robot Position in a Defined 2D Workspace*- The 7-th International Conference on Mechatronics and Precision Engineering COMEFIM'7, 27-29 Mai 2004, Bucuresti – Romania, pag.85-86 (+CD)
- Vi14. Gramescu,B., **Nitu,C.**, Alexandrescu, N. - *Dynamic Analysis of a Motion Axis from a Redundant Multiple-Joint Mobile Mini-Robot* - The 7-th International Conference on Mechatronics and Precision Engineering COMEFIM'7, 27-29 Mai 2004, Bucuresti – Romania, pag.87-88(+CD)
- Vi15. Alionte,C.G., **Nitu, C.**, Gramescu, B. - *Modelarea si simularea unui actuator electromagnetic bidirectional*- The 7-th International Conference on Mechatronics and Precision Engineering COMEFIM'7, 27-29 Mai 2004, Bucuresti – Romania, pag.17-18 (+CD)
- Vi16. **Nitu,C.**, Nitu,S., Gramescu,B., 2003 - *Application of Electromagnetic Actuators to a Variable Distribution System for Automobile Engines* - JAPMED03 - 3rd Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic and Superconducting Materials & 3rd Workshop on Superconducting Flywheels, Atena, 19-21 mai 2003, pag.95-96 (+CD)
- Vi17. Gramescu,B., **Nitu,C.**, 2003 - *Redundant multiple-joints mobile mini-robot* – 4th International Conference "Mechatronics, Robotics and Biomechanics", Hrotovice, 24-27 martie, ISBN 80-214-2312-9
- Vi18. **Nitu,C.**, Nitu,S., Gramescu,B., Alionte, C., 2003 - *Mechatronic System for Variable Distribution of Cars Engines* - 4th International Conference "Mechatronics, Robotics and Biomechanics", Hrotovice, 24-27 martie, pag.75-76 (+CD),ISBN 80-214-2312-9
- Vi19. **Nitu,C.**, Comeaga,C.D., Gramescu, B., 2003- *Vibration Control by Use of Piezoelectric Patches* – 4th International Conference "Mechatronics, Robotics and Biomechanics", Hrotovice, 24-27 martie, pag.73-74 (+CD),ISBN 80-214-2312-9
- Vi20. **Nitu,C.**, Nitu,S., Gramescu,B., Alionte, C., 2002 – *Electromagnetic Actuator with Spring Stored Energy* - 47. Internationales Wissenschaftliches Kolloquium der Technische Universität Ilmenau, 23.-26. September, pag.123-124 (+CD), ISSN 0943-7207
- Vi21. Alexandrescu, N., **Nitu,C.**, 2001 - *Mechatronics Higher Education and Research at POLITEHNICA University of Bucharest* - International Conference on Multidisciplinary Design in Engineering CSME-MDE 2001, Montreal, (CD)
- Vi22. **Nitu,C.**, Alexandrescu,N., Gramescu,B., Nitu,S., 2001 - *Fuzzy Control of a Linear Actuator with Shape Memory Wire* - International Conference on Multidisciplinary Design in Engineering CSME-MDE 2001, Montreal, (CD)
- Vi23. **Nitu,C.**, Gramescu,B., Nitu,S., Grecu,E., 2001 - *Linear Actuator with Shape Memory Wire* – 5-th Japan - France Congress on Mechatronics, Besancon, pag.473-476
- Vi24. **Nitu,C.**, Gramescu,B., Comeaga,C.D., Mihalachi,D. - *Hybrid Actuation – Binary and Continuous – for a Flexible Mini-Robot* – 5-th Japan - France Congress on Mechatronics, Besancon, pag.432-436
- Vi25. Comeaga, C.D., **Nitu,C.**, Gramescu,B., 2001 – *Active Damping Control of a Leaf Spring Guide Using Piezoelectric Distributed Sensors and Actuators* – 3rd International Conference "Mechatronics, Robotics and Biomechanics", Trest, 10-12 Sept. 2001, pag.59-66, ISBN 80-7204-207-6
- Vi26. Alexandrescu,N., Avram, M., **Nitu,C.**, 2000 - *Adaptive System for Precise Control of Flow Rate Using Proportional Hydraulic Distributors, Developed in Mechatronics Conception* - International Conference Mechatronics 2000, Varsovia, 21-23 Sept., pag. 509 – 512, ISBN 83-914366-0-8
- Vi27. Cojoc,D., **Nitu,C.** Gramescu,B., Comeaga,C.D., 2000 - *Measurement Of A Micro-Gripper 3d-Displacement By Stereo Image Matching* - International Conference Mechatronics 2000, Varsovia, pag.561-564, ISBN 83-914366-0-8
- Vi28. Comeaga,C.D., **Nitu,C.**, Cojoc,D.,Gramescu,B., 2000 - *Analysis Of The Deformation For An Active Piezoelectric Structure By Moire Deflectometry* - International Conference Mechatronics 2000, Varsovia, pag.575-577, ISBN 83-914366-0-8

- Vi29. **Nitu,C.**, Comeaga,C.D., Gramescu,B., 2000 - *A Pneumatically Driven Binary Mini Robot* - International Conference Mechatronics 2000, Varsovia, pag.520-523, ISBN 83-914366-0-8
- Vi30. **Nitu,C.**, Bucsan,C.,Comeaga,C.D., Mihalachi,D.,Gramescu,B., 1999 - *Sensing system for checking the positioning accuracy of microrobots with autonomous motion* - "44.Internationales Wissenschaftliches Kolloquium", Ilmenau, 20-23 Sept.1999, pag.265-269, ISSN 0943-7207
- Vi31. Oleksiuk,W., **Nitu,C.**, 1999 - *Miniature linear electromagnetic drives* - Int.Conf. "Mechatronics and Robotics '99", Brno, pag.29-34
- Vi32. Munerato,F., Mihalachi,D.,Laurent,C., **Nitu,C.**,Comeaga,C.D., Oleksiuk,W., Czerwicz,W., 1999 - *Flexible mini-robot with autonomous motion* - ICRAM'99, Istanbul, pag.396-401
- Vi33. **Nitu,C.**, Comeaga,D.,Nitu,S., Gramescu,B., 1998 - *Binary robot piezoelectrically driven*, la 4-th Japan - France Congress on Mechatronics, Kitakyushu, vol.2, pag. 300-303
- Vi34. Trufasu,A.O., **Nitu,C.**, Nitu,S., 1998 - *The videoinspection for 2D - objects by capturing images on PC*, la 4-th Japan - France Congress on Mechatronics, Kitakyushu, vol.2, pag. 624-627
- Vi35. **Nitu,C.**, Bucsan,C., Comeaga,D., Gramescu,B., 1998 - *Sensing System for Checking the Positioning Accuracy of Micro-Robots*, la 4-th Japan - France Congress on Mechatronics, Kitakyushu, vol.2, pag. 614-617
- Vi36. **Nitu,C.**, Nitu,S., Comeaga,D., 1998 - *Distributed Sensors and Actuators for Microrobotics*, la A&Q'98 International Conference on Automation and Quality Control, Cluj-Napoca, vol.A291-296, ISBN 973-9358-15-2
- Vi37. **Nitu,C.**, Nitu,S., Comeaga,C.D., Gramescu,B.,1998 - *Modeling and Control of a Microrobot Module*, la A&Q'98 International Conference on Automation and Quality Control, Cluj-Napoca, vol.A, pag.A258-263, ISBN 973-9358-15-2
- Vi38. Trufasu, O.A., **Nitu,C.**, Nitu,S., 1998 - *A Video Inspection Method for Two-Dimensional Objects*, la A&Q'98 International Conference on Automation and Quality Control, Cluj-Napoca, vol. Q, pag.Q38-42, ISBN 973-9358-15-2
- Vi39. Comeaga,D., **Nitu,C.**, Grecu,E., 1997 - *Kynematic and Static Analysis of a Snake-like Redundant Microrobot Module*, la "Mechatronika'97", Varsovia, tom I, pag. 37-41, ISSN 0860 – 858X
- Vi40. **Nitu,C.**, Grecu,E.,Comeaga,D., 1997 - *Microrobotics and Microactuators Research at "POLITEHNICA" University of Bucharest. Industrial Challenges and Applications*, la "6.Internationales Kolloquium Feinwerktechnik, Budapesta, pag.61-65
- Vi41. **Nitu, C.**, Comeaga,D., Grecu,E., 1996 - *Inchworm Micromotors for Microrobots* la "3-rd France - Japan (1-st Europe - Asia) Congress on Mechatronics", Besançon, pag. 574 – 579
- Vi42. **Nitu,C.**, Comeaga, D., Grecu,E., 1996 - *Using Intelligent Materials in the Structure of Mechatronic Elements*, la "1-st Polish - German Workshop - Innovation Through Mechatronics", Pecice, pag. 204 - 211
- Vi43. Demian, T., Alexandrescu, N., **Nitu, C.**, 1995 - *Precision Engineering Higher Education in Romania*, la "15. Internationales Kolloquium Feinwerktechnik", Mainz, pag. 58 – 62
- Vi37. Alexandrescu, N., Avram, M., **Nitu, C.**, 1995 - *Units with Incremental Electro-Hydro-Pneumatic Actuation*, la "3-rd IFAC/IFIP/IFORS Workshop on Intelligent Manufacturing Systems IMS'95", Bucuresti, vol.2, pag. 447-450
- Vi44. Demian,T., Avram,M., Alexandrescu,N., Grecu,E., **Nitu,C.**, 1995 - *Displacement Sumators Integrated in Electro-Hydraulic Amplifiers*, la "9-th World Congress on the Theory of Machines and Mechanisms, IFToMM,Milano, vol.2, pag. 2621 - 2624
- Vi45. Grecu, E., **Nitu,C.**, 1995 - *Computer - aided testing of the dynamic behavior of the wire matrix printheads*, la "9-th World Congress on the Theory of Machines and Mechanisms - IFToMM, Milano, vol. 2, pag. 2963 – 2967
- Vi46. Panaitopol, H., Grecu, E., **Nitu, C.**, 1994 - *Automatic Devices for Robot Gripper Coupling*, la " 2-nd Japan - France Congress on Mechatronics", Takamatsu, pag. 452 – 455
- Vi47. Demian, T., **Nitu,C.**, 1993 - *Upon the wear of the theoretical pointlike contact bearings for precision instruments*, la "6-th International Congress on Tribology", Budapesta, vol.3, pag. 434 – 439
- Vi48. Demian, T., **Nitu,C.**, 1992 - *Precision Engineering Research Trends in Romania*, la "14-th International Symposium on Precision Engineering & Mechatronics", Viena, vol.1, pag.145 – 149
- Vi49. Demian,T., Udrea, C., Panaitopol, H., **Nitu,C.**, 1992 - *A study upon gripper design for silicon wafer group handling*, la "23-rd International Symposium on Industrial Robots", 6-9 octombrie, Barcelona, pag.585-588
- Vi50. Demian, T., **Nitu,C.**, 1990 - *An investigation of the dynamic behaviour of the ballistic matrix printheads*, la "9-th International Conference on Experimental Mechanics", Copenhaga, vol.1, pag. 250 – 257, ISBN 87-7740-035-6

Vi51. Demian, T., **Nitu, C.**, 1989 - *Friction and wear in matrix printheads*, la "5-th International Congress on Tribology - EUROTRIB '89", Helsinki, vol.3, pag. 270 – 275

Vi52. Demian, T., **Nitu, C.**, 1987 - *On the dynamic behaviour of the matrix printheads and its designing implications*, la "7-th World Congress on the Theory of Machines and Mechanisms", Sevilla, 1987, vol.3, pag. 1577 - 1580

Vi53. Demian, T., **Nitu, C.**, 1982 - *New problems concerning durability of the springs used at the electric switching systems*, la "MIKRONIKA '82", Varsovia, R 302

8. Articole publicate in volumele unor manifestari stiintifice nationale

Vn1. Avram, M., **Nitu, C.**, Panaitopol, H., Avram, Maria, 2002 – *Microrobot binar multiarticulat* – Hervex 2002, Rm. Vâlcea, noiembrie, pag.148-151, ISSN 1454-8003

Vn2. Alexandrescu, N., Dontu, O., **Nitu, C.**, Comeaga, C.D., Gramescu, B., 2002 – *Centrul National de Mecatronica – un pol de dezvoltare a mecatronicii in România* – Hervex 2002, Rm. Vâlcea, noiembrie, pag.39-46, ISSN 1454-8003

Vn3. **Nitu, C.**, 1991 - *Modelarea comportarii dinamice a capetelor de imprimare cu inmagazinare magnetoelastica a energiei*, la "COMEFIN - 3", Brasov, vol.3, pag. 123 – 128

Vn4. **Nitu, C.**, 1991 - *Asupra stabilitatii elastice a acelor capetelor de imprimare matriceala balistice*, la "COMEFIN - 3", Brasov, vol.3, pag. 117 – 122

Vn5. **Nitu, C.**, 1991 - *Fenomenul de impact si optimizarea constructiva a capetelor de imprimare cu inmagazinare magnetoelastica a energiei*, la "COMEFIN - 3", Brasov, vol.3, pag. 111 – 116

Vn6. Pascu, A., **Nitu, C.**, Iordache, M., 1989 - *Calculul regimului termic in containerele pentru echipamentele electronice destinate exploatarii in exterior*, la "Sesiunea de comunicari ICSITE: Realizari in domeniul electronicii profesionale", Snagov, vol.2, pag. VII.87 - VII.92

Vn7. **Nitu, C.**, 1986 - *Asupra comportarii dinamice a capetelor de imprimare matriceale cu ace si implicatiile ei constructive*, la "COMEFIN - 2", Bucuresti, vol. 1, pag. 182 – 187

Vn8. Demian, T., Antonescu, S., Ionascu, G., **Nitu, C.**, 1986 - *Limite de utilizare ale metodelor de configurare a caracterelor, aplicate elementelor constructive ale echipamentelor periferice*, la "Sesiunea de comunicari ICSITE: Realizari in domeniul electronicii profesionale", Snagov, vol.V b, pag.1 - 6

Vn9. Demian, T., Antonescu, S., Ionascu, G., **Nitu, C.**, 1985 - *Comparatie intre metodele de realizare a caracterelor benzilor de imprimanta*, la "Al V-lea Simpozion National de Roboti Industriali", Bucuresti, pag. 130 – 135

Vn10. Demian, T., Antonescu, S., Ionascu, G., **Nitu, C.**, 1984 - *Posibilitati de realizare a tamburilor de imprimare*, la "a IV-a Conferinta Nationala de Masini - Unelte", Bucuresti, 1984, pag. 550 – 553

Vn11. Demian, T., Antonescu, S., Ionascu, G., **Nitu, C.**, 1984 - *Aspecte privind tehnologia tamburilor de imprimanta*, la "Al IV-lea Simpozion de Mecanisme si Transmisii Mecanice. Robotizarea in Industrie", Timisoara, pag.311 – 316

Vn12. Demian, T., Antonescu, S., Ionascu, G., **Nitu, C.**, 1983 - *Proiectarea tehnologiei tamburului mini-imprimantei rapide*, la "A IV-a Conferinta Nationala de Tehnologii Neconventionale", Timisoara, pag. 343 – 348

Vn13. **Nitu, C.**, Munteanu, S., 1982 - *Asupra caracteristicilor dinamice ale unui traductor de forta cu marci tensometrice*, la "COMEFIN - 1", vol.2, pag.234 – 239

Vn14. Demian, T., **Nitu, C.**, 1982 - *Implicatii constructive ale fenomenului de impact asupra capetelor de imprimare matriceala cu ace*, la "COMEFIN - 1", vol 3, pag. 72 – 77

Vn15. **Nitu, C.**, 1980- *Asupra regimului tranzitoriu, de start, al miscarii benzii la unitatile de memorie externa cu banda magnetica*, la "Al III - lea Simpozion de Mecanisme si Transmisii Mecanice", Timisoara, vol. 4, pag. 93 - 100

9. Brevete de inventie

B1. Demian, T., Antonescu, S., Ionascu, S., **Nitu, C.**, Balica, C., Tudor-Sfetea, B., 1987 - *Dispozitiv pentru depunerea stratului fotosensibil pe suprafete cilindrice* - Brevet de inventie RO 91508 / 30.03.1987 - Premiul al II-lea la Salonul de Inventii Bihor, 1987

B2. Demian, T., Antonescu, S., Ionascu, S., **Nitu, C.**, Turbatu, Gh., Tudor-Sfetea, B., Barbacaru, O., 1987 - *Dispozitiv de imprimare prin serigrafie* - Brevet de inventie RO 91509 / 30.03.1987 - Premiul Special CJS la Salonul de Inventii Prahova, 1987

B3. Demian, T., Antonescu, S., Ionascu, S., **Nitu, C.**, Miu, I., Tudor-Sfetea, B., Barbacaru, O., 1987 - *Procedeu de gravare pe suprafete cilindrice* - Brevet de inventie RO 91511 / 30.03.1987 - Premiul al II-lea la Salonul de Inventii Constanta, 1987

B4. Tudor-Sfetea, B., **Nitu, C.**, 1980 - Dispozitiv de inrulare - derulare a benzii intr-un perforator de banda - Brevet de inventie RO 77587 / 11.02.1980 - Premiul Special la Salonul National de Inventii Bucuresti, 1979

10. Certificate de inovator

1. Tudor-Sfetea, B., **Nitu, C.**, 1980 - Dispozitiv de antrenare a benzii intr-un perforator de banda - Certificat de inovator nr.38 - M.I.C.M. - D.I.E.E.

2. Tudor-Sfetea, B., **Nitu, C.**, 1980 - Perforator de banda P50 - Certificat de inovator nr. 64 - M.I.C.M. - D.I.E.E.

11. Proiecte de cercetare

Contracte in calitate de responsabil

Internationale

Pi1. COPERNICUS CP941306 - FMAM - Flexible Microrobot with Autonomous Motion - beneficiar: Comisia Europeana - DGIII (1995 - 1998)

Pi2. 199/16.10.2000 - Cap de papusa cu simularea miscarilor gurii, ochilor, fetei si gatului, beneficiar: Wonderpal-Israel

Nationale

Pn1. Sistem robotic miniatural, cu abilități de reconfigurare și de auto-multiplicare (ROMAR) – proiect CEEX (2006-2008)

Pn2. Actuatori si sistem de comanda pentru supapele unui motor de automobil – grant A – C.N.C.S.I.S. (2003-2005)

Pn3. 223/ 2002 - Executia sistemului de comanda si actionare electromagnetica a supapelor de admisie-evacuare ale unui motor cu ardere interna – beneficiar Master S.A. Bucuresti

Pn4. Controlul activ al vibratiilor folosind fenomenul piezoelectric – grant C - A.N.S.T.I./ grant A - C.N.C.S.I.S. (2000-2002)

Pn5. Actuatori si senzori miniaturali din materiale active si “inteligente” – grant A - C.N.C.S.I.S. (1999-2001)

Pn6. Cercetari teoretice si realizarea unui sistem de inspectie si procesare a imaginii obiectelor bidimensionale cu videocamere – beneficiar A.N.S.T.I. – contract 841 (1996 – 1998)

Pn7. Cercetari teoretice si aplicative in vederea realizarii unor microsisteme autonome - beneficiar: Ministerul Cercetarii si Tehnologiei, Directia Generala Resurse, Unitati si Institutii de Cercetare-Dezvoltare – contrac 337C/1994 si 841/1996 (1994-1996)

Pn8. Cercetari de optimizare a mecanismelor unui plotter cu masa plana - beneficiar: Intreprinderea de Echipamente Periferice Bucuresti – contract 16-6-3/1986

Pn9. Cercetari de realizare si optimizare a capetelor de imprimare matriceala prin impact - beneficiar: Intreprinderea de Echipamente Periferice Bucuresti – contract 16-6-2/1986

Pn10. Mini-imprimanta numerica pentru sistemul de culegere date al spectrofotometrului cu absorbtie atomica - beneficiar: Intreprinderea de Aparate si Utilaje pentru Cercetare Bucuresti – contract 22-2-7/1982

Pn11. Studii pentru realizarea in tara a unei game de microreductoare cu roti dintate cilindrice din material plastic - beneficiar “Electroaparataj” Bucuresti – contract 22-0- 6/1980

Contracte in calitate de participant

Pn1. Cercetari privind miniaturizarea robotilor de inalta precizie destinati micro si nanotehnologiilor – proiect CEEX (2005-2007)

Pn2. Electrodermatom – proiect INVENT nr.165/30.09.2004

Pn3. Modelarea si simularea actuatorilor electromagnetici utilizati la actionarea supapelor unui motor cu ardere interna – beneficiar MASTER S.A. – contract 2396/ 2002

Pn4. Minirobot mobil multiarticulat de tip sarpe – grant AT - CNCSIS (2002-2003)

Pn5. Distribuitor pneumatic proportional cu comanda cu impulsuri modulate – grant A – CNCSIS – grant A CNCSIS – contract 33784/2002

- Pn6. Cercetarea, proiectarea si realizarea unei lampi pentru fotopolimerizare – proiect RELANSIN – contract 21-20-10 (2000-2002)
- Pn7. Sistem de pozitionare pneumatic cu regulator fuzzy – grant A CNCSIS – contract 34967/2001
- Pn8. Sistem de comanda si actiune electrica a supapelor de admisie/evacuare ale unui motor cu ardere interna – beneficiar MASTER S.A. – contract 14458/2001
- Pn9. Minirobot binar pneumatic - beneficiar A.N.S.T.I. – contract 841/1996 – AA1/2000
- Pn10. Cercetari teoretice si aplicative pentru implementarea tehnologiei de citire CD-ROM in unitati de deplasare si masurare liniara - beneficiar A.N.S.T.I. – contract 841/1996 - AA1999-2000 (1999-2000)
- Pn11. Cercetari teoretice si experimentale pentru perfectionarea lagarelor pentru aparate - beneficiar: Ministerul Invatamantului si Stiintei – contract 21-91-7/1991
- Pn12. Cercetari privind elaborarea metodei si tehnologiei de control a defectelor de suprafata pentru componente optice, optoelectronice, cristale si materiale semiconductoare - beneficiar: Ministerul Invatamantului si Stiintei – contract 21-91-5/1991
- Pn13. Radioreleu de 8 Mbytes/s in banda de 11 GHz - beneficiar: Directia Generala a Postelor si Telecomunicatiilor – contract 17-9-14/1989
- Pn14. Studiul patinei gazostatice cu element poros - beneficiar: I.C.S.I.T. pentru Mecanica Fina si Scule – contract 16-6-8/1988
- Pn15. Cercetari tehnologice pentru realizarea benzii imprimantei PB 1130 - beneficiar: Intreprinderea de Echipamente Periferice Bucuresti – contract 22-5-7/1985
- Pn16. Tehnologia de executie a pinilor de contact - beneficiar: “Electromagnetica” Bucuresti – contract 05522/1985
- Pn17. Cercetari pentru realizarea unui tambur de schimb pentru imprimanta UI 1200 - beneficiar: I.I.R.U.C. Bucuresti – contract 22-4-5/1984
- Pn18. Tehnologia de executie pentru tamburi de imprimanta - beneficiar: Intreprinderea de Echipamente Periferice Bucuresti – contract 22-3-8/1983
- Pn19. Dispozitiv programabil pentru manevrare si manipulare in medii industriale - beneficiar: Intreprinderea “23 August” Bucuresti - 22-3-8/1983
- Pn20. Material documentar in domeniul tehnicii masurarii, fiabilitatii si calitatii - beneficiar: O.I.D.I.C.M. – contract 22-2-11/1982
- Pn21. Material documentar in domeniul tehnicii masurarii, fiabilitatii si calitatii - beneficiar: O.I.D.I.C.M. – contract 22-1-1/1981
- Pn22. Dispozitive de apucare si manipulare pentru miezuri si piese turnate - beneficiar: Intreprinderea “23 August” Bucuresti – contract 22-1-9/1981
- Pn23. Dispozitive de apucare si manipulare pentru miezuri si piese turnate - beneficiar: Intreprinderea “23 August” Bucuresti – contract 22-0-8/1980