

**FORMAT
EUROPEAN
CURRICULUM VITAE**



INFORMATII PERSONALE

Nume	Alexandru Mihail MOREGA
Adresa	Facultatea de Inginerie Electrica, Universitatea POLITEHNICA din Bucuresti
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Nationalitate	Romana
Data nasterii	

EXPERIENTA PROFESIONALA

• Perioada	1980-
• Numele si adresa angajatorului	UNIVERSITATEA POLITEHNICA DIN BUCURESTI, FACULTATEA DE INGINERIE ELECTRICA
• Tipul activitatii sau Sector de activitate	Educatie, cercetare
• Functia sau postul ocupat	De la Asistent suplinitor la Profesor
• Principalele activitati si responsabilitati	Educatie, cercetare

EDUCATIE SI FORMARE

• Perioada	1970-1974
• Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	LICEUL "MIHAI VITEAZUL" DIN BUCURESTI
• Domeniul studiat/aptitudini ocupationale	Liceu teoretic / matematica-fizica
• Tipul calificarii/Diploma obtinuta	Bacalureat
• Nivelul de clasificare a formei de instruire/invatamant	Invatamant mediu / liceu
• Perioada	1974-1980
• Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	INSTITUTUL POLITEHNIC DIN BUCURESTI, FACULTATEA DE ELECTROTEHNICA, INVATAMANT SUPERIOR TEHNIC, INGINERIE
• Domeniul studiat/aptitudini ocupationale	Electrotehnica / cercetare, proiectare, invatamant
• Tipul calificarii/Diploma obtinuta	Inginerie electrica / Inginer, electrotehnica
• Nivelul de clasificare a formei de instruire/invatamant	Invatamant superior tehnic
• Perioada	1981-1987
• Numele si tipul institutiei de	INSTITUTUL POLITEHNIC DIN BUCURESTI, FACULTATEA DE ELECTROTEHNICA, INVATAMANT

<p>invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala</p> <ul style="list-style-type: none"> • Domeniul studiat/aptitudini ocupationale • Tipul calificarii/Diploma obtinuta • Nivelul de clasificare a formei de instruire/invatamant 	<p>SUPERIOR TEHNIC, INGINERIE</p>
<ul style="list-style-type: none"> • Perioada • Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala • Domeniul studiat/aptitudini ocupationale • Tipul calificarii/Diploma obtinuta • Nivelul de clasificare a formei de instruire/invatamant 	<p>Electrotehnica / cercetare, proiectare</p> <p>Doctorat / Doctor inginer, electrotehnica</p> <p>Invatamant superior tehnic</p> <p>1990-1993</p> <p>Duke University, Department of Mechanical Engineering and Materials Science, Durham, NC, USA</p> <p>Inginerie mecanica / cercetare, proiectare</p> <p>PhD / Doctor of Philosophy in Mechanical Engineering</p> <p>Invatamant superior tehnic</p>
<p>APTITUDINI SI COMPETENTE PROFESIONALE</p> <p>Dobandite in cursul vietii si carierei dar care nu sunt recunoscute neaparat printr-un certificate sau o diploma.</p>	
<p>LIMBA MATERNA</p>	<p>Romana</p>
<p>LIMBI STRAINE CUNOSCUTE</p>	
<ul style="list-style-type: none"> • abilitatea de a citi • abilitatea de a scrie • abilitatea de a vorbi 	<p>Engleza</p> <p>fluent</p> <p>fluent</p> <p>fluent</p>
<ul style="list-style-type: none"> • abilitatea de a citi • abilitatea de a scrie • abilitatea de a vorbi 	<p>Franceza</p> <p>fluent</p> <p>fluent</p> <p>fluent</p>
<ul style="list-style-type: none"> • abilitatea de a citi • abilitatea de a scrie • abilitatea de a vorbi 	<p>Germana</p> <p>bine</p> <p>bine</p> <p>bine</p>
<p>APTITUDINI SI COMPETENTE SOCIALE</p>	<p>Membru al comunitatii locale</p>
<p>APTITUDINI SI COMPETENTE ORGANIZATORICE</p>	<p>Sef de Catedra – Catedra de Masini, Matriale, Actionari Electrice, Facultatea de Inginerie Electrica, Universitatea POLITEHNICA din Bucuresti</p> <p>Director – Departamentul de Bioinginerie si Biotehnologie, Universitatea POLITEHNICA din Bucuresti</p>
<p>APTITUDINI SI COMPETENTE TEHNICE</p>	<p>CERCETARE, EDUCATIE</p>

PUBLICATII

ALEXANDRU MIHAIL MOREGA

Profesor,

Catedra de Masini, Materiale si Actionari Electrice

Facultatea de Electrotehnica,

Universitatea POLITEHNICA din Bucuresti

Director,

Departamentul de Bioinginerie si Biotehnologie, UPB

Sef Catedra

Catedra de Masini, Materiale si Actionari Electrice

Cercetator (1/2 norma)

Institutul de Statistica Matematica si Matematica Aplicata "Gh. Mihoc – C. Iacob" al Academiei Romane

Teze de doctorat

1. *Electromagnetic methods in the metallurgical technologies of composite materials*, Electrical Engineering, Universitatea POLITEHNICA din Bucuresti, 1987.
2. *Optimal Geometries of Electronic Packages Cooled by Forced Convection*, Mechanical Engineering, Duke University, Durham, NC, USA, 1993.

Lucrari publicate

Reviste cu recenzori

1. Chetan, M. and Morega, A.M., "An *ad-hoc* data network for medical data collection and reduction", Bul. UPB, 2008, accepted.
2. Faur, S.C., Morega, A.M., "Human common wart removal: A FEM Model for Cryosurgery Procedure", Bul. UPB, 2008, accepted.
3. Neagu, M.D., Morega, A.M., Mogos, L. "Intratumoral temperature monitoring", Bul. UPB, 2008, accepted.
4. Panait, M.A., Morega, A.M., "Neural and nervous reflex networks: a new approach to integrated control", Bul. UPB, 2008, accepted.
5. Chetan, M. and Morega, A.M., "Personal Data Network for outpatient medical monitoring devices", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **53**, 3, pp. 339-348, 2008. (ISI)
6. Morega, M. and Morega, A.M., "Analysis of the electromagnetic field in a controlled enclosure for biological dosimetry. Part 2. Analysis of emf working conditions", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **53**, 3, pp. 239-248, 2008. (ISI)
7. Morega, A.M., Ordonez, J.C., Vargas, J.V.C., and Kosaraju, S., "A finite element method (FEM) analysis and optimization of a PEM fuel cell with interdigitated flow field design", Int. J. Energy Technologies and Policy, **6**, 1/2, pp. 112-123, 2008.
8. Masson P.J., Tixador P., Ordonez J.C., Morega A.M. and Luongo, C.A. "Electro-Thermal Model for HTS Motor Design", IEEE Transactions on Applied Superconductivity, **17**, 2, June 2007, pp. 1529-1532. (ISI)
9. Mocanu, D., Morega A.M., Morega M., "Electrical rhythms in paced cardiac fibers", *Acta Electrotehnica*, Special Issue (selected papers from the *1st International Conference on Advancements of Medicine and Health Care through Technology*, MediTech 2007, 27-29 Sept.), **48**, 4, 2007, pp. 315-318, ISSN 1841-3323
10. Mogos, L., Morega, A.M., "Bioheat transfer analysis in electrical transcutaneous cardiac pacing", *1st National Symposium on e-Health and Bioengineering – EHB 2007*, 16-17th November, 2007, Iasi
11. Morega, M., Morega, A.M., Neagu, M. "Analysis of electromagnetic and thermal coupled fields in microwave therapy", *Acta Electrotehnica*, Special Issue (selected papers from the *1st International Conference on Advancements of Medicine and Health Care through Technology*, MediTech 2007), **48**, 4, 2007, pp. 357-360, ISSN 1841-3323.
12. Morega, A.M., Ordonez, J.C., Negoias, A.P., "A local thermal analysis of an AC armature winding of a High Temperature Superconductor motor", Bulletin of the Transilvania Univ. of Brasov, **13** (48) – New Series, B1, Mathematics, Informatics, Physics, 2006, pp. 269-276.
13. Morega, A.M. and Bejan, A., "A Constructal Approach to the Optimal Design of Photovoltaic Cells", I. Journal of Green Energy, **2**, 3, pp. 233-242, 2005. (ISI)
14. Morega, A.M. and Morega, M., "A FEM analysis of Magnetically induced biomagnetic fluid mixing", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **50**, 2, pp. 239-248, 2005. (INSPEC)
15. Mocanu D., Kettenbach, J., Eisenberg, S., Morega, A.M., and Morega, M., "Nonsmooth regularization in electrocardiographic imaging", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **50**, 2, pp. 249-260, 2005.

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16. Morega, A.M. and Morega, M., "A constructal principle based optimal design for photovoltaic cell architectures", Romanian J. of Physics, **49**, 9-10, pp.919-936, 2004. (INSPEC)
17. Nishimura, T. and Morega, A.M., "Influence of Lewis Number on Double-Diffusive Convection in a Square Cavity Filled with Binary Gas", Heat Transfer Asian Research (former Heat Transfer Japanese Research), pp. 85-97, 2003. (ISI)
18. Morega, A.M., "Double Diffusive Convection by a Chebyshev Collocation Method", in *Studii de Termodinamica Aplicata*, ed. V. Badescu and T. Prisecaru, Ed. Politehnica, 2003, pp. 116, ISBN 9738449065.
19. Morega, A.M. and Morega, M., "A FEM model for thermoelectric and thermomagnetic effects", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **48**, 2-3, pp. 187-197, 2003. (INSPEC)
20. Nishimura, T., Bian, Y., Kunitsugu, K., and Morega, A.M., "Fluid flow and mass transfer in a sinusoidal wavy-walled tube at moderate Reynolds numbers", Trans. JSME, no. 01-1378, pp. 2349-2353 (180-185), 2002. (ISI)
21. Moraru, A., Panaitescu, A., Mocanu, D., Morega, A.M., Panaitescu, I., Soci, A., "Computational models for phenomena in aluminum electrolysis cells", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **47**, 1, pp. 3-34, 2002. (INSPEC)
22. Nishimura, T. and Morega, A.M., "Influence of Lewis Number on Double-Diffusive Convection in a Square Cavity Filled with Binary Gas", Heat Transfer Asian Research (former Heat Transfer Japanese Research), pp. 63-75, 2001. (ISI)
23. Morega, A.M., "A numerical analysis of laminar transport processes in ducts with cross-sectional periodicity", Analele Universitatii Bucuresti, ano L (2001), pp. 159-168.
24. Nishimura, T., Ogata Y., Sakura, S., Morega, Al. M. and Gotoh, K., "Traveling plumes generated within a double-diffusive interface between counter shear flows", Phys. of Fluids, **12**, 11, pp. 3078-3081, Nov. 2000. (ISI)
25. Nishimura, T. and Morega, A.M., "Direct simulation of layer merging in a salt-stratified system", Numerical Heat Transfer, Part A, **37**, pp. 323-341, 2000. (ISI)
26. Nishimura, T. and Morega, A.M., "Oscillatory natural convection by combined heat and mass transfer", Trends Heat Mass & Momentum Transf., **6**, pp. 51-62, 2000.
27. Nishimura, T., Ogata Y., Sakura, S. and Morega, Al. M., "Interfacial breakdown of double-diffusive convective layers by a horizontal temperature gradient", Int. J. Heat Mass Transf., **42**, pp. 1479-1489, 1999. (ISI)
28. Nishimura, T., Sakura, S. and Morega, A.M., "Traveling plumes within a double-diffusive interface under a horizontal temperature gradient", pp. 9-11, no.16, *Album of Visualization*, The Visualization Society of Japan, ISSN 0919-4630, 1999.
29. Nishimura, T., Wakamatsu, M. and Morega, Al. M., "Oscillatory double-diffusive convection in a rectangular enclosure with combined horizontal temperature and concentration gradients", Int. J. Heat Mass Transf., **41**, no. 11, pp. 1601-1611, 1998. (ISI)
30. Morega, Al. M., Nishimura, T., Panaitescu, A. and Paceagiu B., "Magnetic field influence on double-diffusive convection transport processes", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **43**, **4**, pp. 1998. (INSPEC)
31. Nishimura, T., Kunitsugu Koji, and Morega, Al. M., "Fluid mixing and mass transfer enhancement in grooved channels", J. of Enhanced Heat Transfer, vol. 5, pp. 23-37, 1998. (ISI)
32. Nishimura, T. and Morega, A.M., "Influence of Lewis Number on Double-Diffusive Convection in a Square Cavity Filled with Binary Gas", Trans. JSME, **64**, **626 B**, **10**, pp. 3423-3429, 1998. (ISI)
33. Moraru A., Panaitescu I., Panaitescu A., Mocanu D., and Morega, Al. M. "On the current field in the aluminum reduction cell", Revue Roum. Sci. Tech.-Electrotechn. et Energ., Vol. 43, 4, pp. 473-484, Bucharest, 1998. (INSPEC)
34. Nishimura, T., Morega, Al. M. and Kunitsugu Koji, "Vortex structure and fluid mixing in pulsatile flow through periodically grooved channels at low Reynolds numbers", JSME Int. Journal, B, **40**, 3, pp. 377-385, 1997. (ISI)
35. Morega, Al. M., Lohan, F. and Minciunescu, P., "Preprocesor pentru un pachet de programe de element frontier 2-D", EEA-Electrotehnica, nr 1-2, 1997.
36. Ledezma, G., Morega, Al. M. and Bejan, A., "Optimal spacing between pin fins with impinging flow", J. Heat Transfer, **118**, pp. 570-577, 1996. (ISI)
37. Morega, Al. M. and Nishimura, T. "Double-diffusive convection by a Chebyshev collocation method", Technology Reports of Yamaguchi University, **5**, pp. 259 - 276, 1996.
38. Morega, Al. M., Ciocirlan, B. and Minciunescu, P., "On optimal transcuteaneous pacing; an electrokinetic approach", Rev. Roumaine Sci. Techn. Electrotech. et Energ. (în englez), **41**, 1, pp. 13 - 22, 1996. (INSPEC)
39. Morega, Al. M., Mocanu, D. and Morega, M., "Eigenvalue cardiography", Rev. Roumaine Sci. Techn. Electrotech. et Energ., **41**, 2, pp. 169 - 178, 1996. (INSPEC)
40. Morega, Al. M., "An introduction to Duke University educational computing", Yamaguchi University Journal, no. 5, pp. 23 - 28, Ube, Japan, 1996.
41. Morega, M., Morega, Al., M. "Procedeu tehnic si model matematic pentru stimularea pe cale magnetic a

sistemului nervos”, *EEA Electrotehnica*, **44**, 9-10, 1996.

42. Morega, Al. M., Bejan, A. and Lee, S. W., "Free stream cooling of a stack of parallel plates", *Int. J. of Heat and Mass Transfer*, **38**, 3, pp. 519-531, 1995. (ISI)
43. Morega, Al. M., Vargas, J. V. C. and Bejan, A., "Optimization of pulsating heaters in forced convection", *Int. J. of Heat and Mass Transfer*, **38**, 16, pp. 2925-2934, 1995. (ISI)
44. Mocanu, C. I. and Morega, Al. M., "Electromagnetic energy and momentum theorems for nonlinear and moving media", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, **40**, 1, pp. 3-14, 1995. (INSPEC)
45. Mocanu, C. I., Morega, Al. M., Morega, M., "On the difficulties of Thomas-Wigner Rotation", *Hadronic Journal*, **16**, pp. 63 - 96, 1995 (citat în Physics Abstracts ISSN 0036-8091, Science Abstracts, series A, 15th Sept. 1995).
46. Bejan, A. and Morega, Al. M., "The optimal spacing of a stack of parallel plates cooled by turbulent forced convection", TN, *Int. J. of Heat and Mass Transfer*, **37**, pp. 1045-1048, 1994. (ISI)
47. Bejan, A., Kim, S. J., Morega, Al. M., and Lee, S. W., "The cooling of stacks of boards shielded by porous screens", *Int. J. Heat and Fluid Flow*, 1994. (ISI)
48. Morega, Al. M. and Morega, M., "Forced convection boundary layer with superposed magnetic field", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, **39**, 2, pp. 155-163, 1994. (INSPEC)
49. Morega, Al. M. and Bejan, A., "The optimal spacing of parallel boards with discrete heat sources cooled by laminar forced convection", *Numerical Heat Transfer A, Applications*, **25**, pp. 373 - 392, 1994. (ISI)
50. Morega, Al. M. and Bejan, A., "Heatline visualization of forced convection in porous media", *Int. J. Heat and Fluid Flow*, **15**, 1, pp. 42 - 47, 1994. (ISI)
51. Bejan, A., and Morega, Al. M., "Optimal arrays of pin fins and plate fins in laminar forced convection", *J. Heat Transfer*, **115**, pp. 75 - 81, 1993. (ISI)
52. Bejan, A., Morega, Al. M., Lee, S. W. and Kim, S. J., "The cooling of a heat generating board inside a parallel-plate channel", *Int. J. Heat and Fluid Flow*, **14**, 2, pp. 170 - 176, 1993. (ISI)
53. Morega, Al. M., Filip, A. M., Bejan, A. and Tyvand, P. A., "Melting around a rotating shaft embedded in a phase-change material", *Int. J. Heat and Mass Transfer*, **36**, pp. 2499 - 2509, 1993. (ISI)
54. Morega, Al. M. and Bejan, A., "Heatline visualization of the forced convection laminar boundary layers", *Int. J. Heat and Mass Transfer*, **30**, pp. 3957 - 3967, 1993. (ISI)
55. Bejan, A. and Morega, Al. M., "Thermal contact resistance between two flat surfaces that squeeze a film of lubricant", TN, *J. Heat Transfer*, **36**, pp. 763 - 767, 1993. (ISI)
56. Mocanu, C. I., Morega, M., Morega, Al. M., "On the Thomas Rotation Paradox", *Hadronic Journal*, **16**, pp. 295 - 329, 1993.
57. Morega, Al. M. and Minciunescu, P., "Electrostatic modeling of a cap-rod insulators family", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, **37**, 4, pp. 445 - 456, 1992. (INSPEC)
58. Ioan, D. C. and Morega, Al. M., "Instalatie de laborator pentru studiul solidificarii controlate a materialelor metalice", *EEA-Electrotehnica*, **37**, 1, pp. 28 - 35, 1989.
59. Morega, Al. M., "Magnetic field influence on the convective heat transfer in solidification processes. I", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, **33**, 1, pp. 33-39, 1988. (INSPEC)
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61. Morega, Al. M., "The heatfunction approach to the thermo-magnetic convection of electro-conductive melts", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, **34**, 4, pp. 359-368, 1988. (INSPEC)

Bb Lucrari la conferinte internationale (Proceedings)

1. Negoias, A.P., Morega, A.M., Morega, M., "", ICREPQ'09, 15-17 April, paper 441, Valencia, Spain, 2008, accepted.
2. Morega, A.M., Morega, M., Stoian, F.D., Holotescu, S., "Numerical simulation of an experimental apparatus for the evaluation of physical properties of magnetic fluids", *COMSOL Conference*, Budapest, 24-25 November 2008.
3. Morega, A.M., Morega, M., Stoian, F.D., Holotescu, S. "Heat transfer processes in magnetic fluid confined to a cylindrical enclosure", *ATEE'08*, Bucuresti, 20-21 Nov., 2008.
4. Tanoue, K., Morega, A.M., Nishimura, T., "Numerical simulation of chemical reacting flow and the effect of the interactions between ions", *ATEE'08*, Bucuresti, 20-21 Nov., 2008.
5. Petre, M., Morega, A.M., "Heat transfer by the side wall of an aluminum electrolysis cell", *ATEE'08*, Bucuresti, 20-21 Nov., 2008.
6. Faur, S.C., Morega, A.M., "Numerical simulation of the cooling of human kidney for transport", *ATEE'08*, Bucuresti, 20-21 Nov., 2008.
7. Faur, S.C., Morega, M., Morega, A.M., "A 3D FEM model for magnetic stimulation of human wrist nerves in

- carpal tunnel syndrom”, *BioMed’2008, 13-16 November*, University POLITEHNICA of Bucharest, Romania.
8. Popescu, A., Baran, I., Morega, A.M., Ganea, C., “Drug delivery in a patch-clamp setup: Computational models of concentration distribution on the cell membrane”, *Mathematical Modeling of Environmental and Life Sciences Problems, 7th Workshop*, 20-25 October 2008, Constanta, Romania.
 9. Negoias, A.P., Morega, A.M., Morega, M., “Constructal optimization of a bag-type air filter by finite element simulation”, *Mathematical Modeling of Environmental and Life Sciences Problems, 7th Workshop*, 20-25 October 2008, Constanta, Romania.
 10. Faur, S.C., Morega, A.M., “Numerical simulation of the cooling of human kidney for transport”, *Mathematical Modeling of Environmental and Life Sciences Problems, 7th Workshop*, 20-25 October 2008, Constanta, Romania.
 11. Chețan, M., Neagu, M.D., Morega, A.M., “Medical data transfer in an outpatient environment”, *BIOINGTEH Exploratory Workshop*, CNCSIS, Poiana Brasov, 18-20 Septembrie, 2008.
 12. Morega, M., Morega, A.M., Machedon, A., “Microwave applicator for soft tissue hyperthermia”, *BIOINGTEH Exploratory Workshop*, CNCSIS, Poiana Brasov, 18-20 Septembrie, 2008.
 13. Morega, A.M., Morega, M., Faur S.C., “Field-substance interactions in magnetically driven micro-stirring devices”, *BIOINGTEH Exploratory Workshop*, CNCSIS, Poiana Brasov, 18-20 Septembrie, 2008.
 14. Morega, A.M., Panait, M.A., Morega, M., “Structural optimization of a thermo-electric generator by numerical simulation”, *Joint International Conference Materials for Electrical Engineering, MMDE & ROMSC 2008*, 16-18 Iunie, 2008, Bucuresti.
 15. Morega, A.M., “Arhitecturi constructale pentru materiale si structuri utilizate in electrotehnica si electronica”, Conferința Națională a Cercetării Științifice din Învățământul Superior – CNCSIS 10, 15-17 Mai, 2008, Univ. Transilvania Brasov, *lucrare invitata*.
 16. Kawahara, H., Morega, A.M., Morega, M., “Magnetic Field Control of Flow and Heat Transfer in Solidification Processes”, *OPTIM 2008, 11th Conference*, 22-24 May 2008, Brasov, Romania.
 17. Morega, M., Neagu, M.D., Morega, A.M., “Bidirectional coupling of electromagnetic and thermal processes in radiofrequency hyperthermia”, *OPTIM 2008, 11th Conference*, 22-24 May 2008, Brasov, Romania.
 18. Morega, A.M., Ordonez, J.C. and Morega, M. “A constructal approach to power distribution networks design”, *International Conference on Renewable Energy and Power Quality, ICREPQ’80*, 12-14 March, paper 441, ISBN: 978-84-611-9290-8, Santander, Spania, 2008.
 19. Morega, M., Morega, A.M., “Electromagnetic environment generated in a tem cell for biological dosimetry applications”, *2007 European COMSOL Conference*, 23-24 October, Grenoble, France.
 20. Morega, A.M., Ordonez, J.C., Faur, S.C., Morega, M., “A Magnetically Driven Micro-Mixing Device and its Numerical Analysis”, *2007 European COMSOL Conference*, 23-24 October, Grenoble, France
 21. Morega, A.M., Ordonez, J.C., Vargas, J.V.C., Luongo, C.A., Shih, C., “Engineering Education Solutions to a Global Economy”, *ICEE 2007 International Conference on Engineering Education – Coimbra*, Portugal Sept. 3-7, 2007.
 22. Mocanu, D., Morega, A.M., Negoias, A.P., “DNA Hybridization in Microfluidics Systems – Transport Mechanisms”, *Mathematical Modeling of Environmental and Life Sciences Problems, 6th Workshop*, 10-12 September, 2007, Constanta, Romania.
 23. Ordonez J. C., Vargas J.V.C., Morega A.M., Luong C.A., Shi C., “International Capstone Senior Design Projects”, *Fifth LACCEI International Latin American and Caribbean Conference for Engineering and Technology (LACCEI’2007)*, “Developing Entrepreneurial Engineers for the Sustainable Growth of Latin America and the Caribbean: Education, Innovation, Technology and Practice”, 29 May – 1 June 2007, Tampico, México.
 24. Morega, M., Morega, A.M., Machedon, M., “3D FEM model for localized SAR estimate in human exposure to microwaves”, *The 7th EMC Europe International Symposium on Electromagnetic Compatibility*, Barcelona, Spain, September 2006, Proceedings ISBN: 84-689-9438-3, p. 301-306.
 25. Chețan, M., Morega, A.M., “Medical data transfer technologies”, *ATEE’06*, Bucuresti, 24 Nov., 2006.
 26. Negoias, A.P., Morega, A.M. and Ordonez, J.C., “Heat transfer in spherical photovoltaic cells”, *ATEE’06*, Bucuresti, 24 Nov., 2006.
 27. Morega, A.M., Panaitescu, A., Petre, M., “Current Flow and Heat Transfer in Aluminum Electrolysis Cell – A FEM Analysis”, *ATEE’06*, Bucuresti, 24 Nov., 2006.
 28. Morega, A.M., Ordonez, J.C., Negoias, P.A., Morega, M., and Hovsopian, R., “Optimal electrical design of spherical photovoltaic cells”, *COMSOL Conference*, Congress Center of the Czech Technical University, Prague, October 26, 2006.
 29. Morega, A.M., Ordonez, J.C., “Constructal Design of Concurrent Power Distribution Networks”, *COMSOL Conference*, Boston, October 20-21, Hyatt Regency, Cambridge, Boston, MA, 2006.
 30. Morega, A.M., Ordonez, J.C., “A higher resolution, local thermal analysis of an AC armature winding of a high temperature superconductor motor”, Paper IMECE2006-13825, 2006 ASME International, Mechanical Engineering Congress and Exposition, IEMEC-2006, Nov. 5-10, Chicago, Illinois, USA, CD-Rom IEMEC 2006-13825, 2006.
 31. Vargas, J.V.C., Ordonez, J.C., Morega, A.M., Luongo, C., and Shih, C., Paper GC 2006-40: “Bringing

- international components to capstone senior design projects-preparation for a global economy”, 5th *American Society for Engineering Education (ASEE) Global Colloquium on Engineering Education*, October 9-12, 2006, Rio de Janeiro, Brazil.
32. Morega, A.M., Negoias, A.P., “Heat transfer in spherical Photovoltaic cells”, *Mathematical Modeling of Environmental and Life Sciences Problems, 4th Workshop*, 10-12 September, 2006, Constanta, Romania.
 33. Popescu, A., Morega, A.M., “Computation of postsynaptic transmembrane currents and membrane potential in the nicotinic synapse”, *Mathematical Modeling of Environmental and Life Sciences Problems, 5th Workshop*, 10-12 September, 2006, Constanta, Romania.
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14. "Modelarea numerica a proceselor convectiv-difuzive in prezenta campului magnetic. Studii de magnetohidrodinamica cu aplicatii in electrotehnica", grant CNCSIS A, Tema 89, cod 129, 33784/2002.
15. "Apoptoza in adenoamele hipofizare. Implicatii in progresia tumorală si terapie", Programul VIASAN, Inst. Nat. de Cercetare-Dezvolt. In domeniile patologiei si stiintelor biomedicale "Victor Babes", 2001-2002
16. "Modelarea numerica a proceselor convectiv-difuzive in prezenta campului magnetic. Studii de magnetohidrodinamica cu aplicatii in electrotehnica", grant CNCSIS A, Tema 39, cod 627, 34967/2001.
17. "Perfectionarea invatamântului electric medical – program interdisciplinar de studii universitare", grant CNFIS II / Banca Mondiala, tema 89, 1998-2002.
18. "Studii asupra proceselor difuziv-convective in tehnologiile specifice creşterii cristalelor pentru materiale electrotehnice si electronice", MCT, Cooperare Romania-Japonia, B3, A51, 1998-2001.
19. "Procese convective difuzive naturale in incinte rectangulare", beneficiar Academia Româna, Grant de cercetare 3042GR, a.a. 4062/03.11.1998, tema A4, 1998.
20. "Analiza problemelor directa si inversa in electrocardiografie", grant CNCSU, contract 32, temele 62, 55, cod CNCSU 616, 705, 2-98-11, 1998-2001.
21. "Cercetari privind câmpul electromagnetic în medii în miscare. Versiunea neregiproca" beneficiar Ministerul Cercetării si Tehnologiei, Contract nr. 2-96-6, Tema A100, 1998.
22. "Procese convective difuzive naturale in incinte rectangulare", beneficiar Academia Româna, Grant de cercetare 3042GR, tema B6, 3-97-10, 1997.
23. "Cercetari privind câmpul electromagnetic în medii în miscare. Versiunea neregiproca" beneficiar Ministerul Cercetării si Tehnologiei, Contract nr. 2-96-6, 836/1, Tema A 98, 1997.
24. "Realizari actuale în racirea structurilor electronice (componente, circuite si dispozitive)", grant de cercetare, cod 4, CNCSIS, 1996.
25. "Cercetari privind câmpul electromagnetic în medii în miscare. Versiunea neregiproca: Studiul calitativ al structurii defective a ecuatilor Maxwell-Hertz", Contract 2-96-6, 836/1, Tema B58, 1996.
26. "Cercetari privind câmpul electromagnetic în miscare neuniforma la viteze mari. Calculul helmholtzian în exprimare intrinseca (vectoriala) si cinematica (cu relatii de transformare a coordonatelor spatio-temporale). Particularitatile electrodinamicii mediilor în miscare si rotatia Thomas", beneficiar Ministerul Cercetării si Tehnologiei, Contract nr. 2-94-4, 836, Tema A93, 1996.
27. "Realizari actuale în racirea structurilor electronice (componente, circuite si dispozitive)", grant de cercetare, cod 441, CNCSU, 4001, Tema A124, 1995.
28. "Cercetari privind câmpul electromagnetic în miscare neuniforma la viteze mari. Calculul helmholtzian în exprimare intrinseca (vectoriala) si cinematica (cu relatii de transformare a coordonatelor spatio-temporale)", beneficiar Ministerul Cercetării si Tehnologiei, Contract nr. 2-94-4, 510B, Tema B33, 1995.
29. "Studiu computerizat pentru determinarea distributiei termice în servomotoarele sincrone fara perii si aplicatiile lor", Contract nr. 2-94-6 / 1994, beneficiar ICPE Bucuresti.
30. "Cercetari privind câmpul electromagnetic în miscare neuniforma la viteze mari. Elaborarea electrodinamicii macroscopice hertziene compatibila cu teoria Maxwell-Hertz si complementara cu teoria relativitatii restrânse", beneficiar MCT, Contract nr. 2-94-4, 337C, Tema B2, 1994.
31. "Pachet de programe electrotehnice pentru calculatorul FELIX M118", Contract nr. 3-5-3 / 1985, beneficiar Institutul pentru Tehnic de Calcul si Informatic, Bucuresti (ITCI).

Fb (participant)

1. SIMODIN – "Sisteme modulare inteligente pentru acţiunări electrice de mică putere", PNCDI-II, Inovare, 2008-2010
2. 3DDTI – "Imagini de traiecte nervoase (Diffusion Tensor Imaging, DTI) integrate unui model anatomic 3D – instrument de diagnostic si tratament, PNCDI-II, coordonator Spitalul Clinic "Gh. Burghel" (membru in echipa de cercetare), 2008-2011.
3. SHIELDS – PNCDI-II, nr. 21-075/2007
4. "Dozimetrie in domeniul microundelor pentru aplicatii in biologie si medicina", CNCSIS, A, 357/2005-2007.
5. DIAPROGENDO – "Implicaţii diagnostice şi prognostice ale aspectului endomicroscopic al microvascularizaţiei leziunilor premaligne şi maligne ale tubului digestiv superior" – CEEX, VIASAN 89, 2006-2009.

6. Obținerea și caracterizarea unor noi micro și nanostructuri compozite cu aplicații în ingineria tisulară, CNCIS, A, 2004-2006.
7. BIOMAT – ISMMA, Academia Română, 2006-2009.
8. “Studii in vitro privind leziunile oxidative induse de expunerea profesională la metale grele în fibroza pulmonară asociată sau nu cu cancer”, VIASAN (2004-2006)
9. “Dezvoltarea unor biotehnologii de cultivare a unor celule umane în scopul aplicării în practica medicală”, BIOTECH 2004-2006.
10. “Modelarea câmpului electromagnetic în condiții specifice expunerii utilizatorilor de telefonie mobilă”, CNCIS, A, 2002-2004
11. “Proteza inteligentă de membru superior cu comandă mioelectrică”, RELANSIN 2156/2004
12. Dispozitiv computerizat de precizie pentru recuperarea ortopedică a membrului superior/, RELANSIN 2134/2004
13. “Motor pentru echipament computerizat, de precizie, folosit în recuperarea articulară a membrului inferior” în “Echipament computerizat, de precizie, folosit în recuperarea articulară a membrului inferior”, proiect RELANSIN 1674/2003.
14. “Modelarea câmpului electromagnetic în condiții specifice expunerii utilizatorilor de telefonie mobilă”, Grant A, CNCIS 469/2003.
15. Grant Banca Mondială CNCIS 76/4D, 40625/27.09.2000, “PU-MAGNAT: Program de pregătire postuniversitară – studii aprofundate și doctorat, în domeniul magnetismului tehnic și aplicat”, 2000-2002.
16. "Research on electromagnetic phenomena in industrial cells of electrolysis made Aluminum for increasing their technical and economical performances", ALEL INCO/COPERNICUS Project, no. IC15-CT96-0714 (DG12-NNAE), 1997-2000.
17. ANSTI 836/96, Act ad. 334/99/II, Tema B26, “Acuratețea modelării numerice a structurilor anatomo-fiziologice. Studii calitative și cantitative cu aplicații în ingineria electrică medicală”
18. "Relativitatea restrânsă în inginerie. Formularele complementare ale sistemelor de coordonate", ANSTI, 836, tema B51, 1999.
19. "Procedee tehnice și modelare numerică în electrostimularea tesuturilor biologice excitabile", beneficiar Ministerul Cercetării și Tehnologiei, Contract nr. 2-96-6, Tema A113, 1997.
20. "Procedee tehnice și modelare numerică în electrostimularea tesuturilor biologice excitabile", 836/1, Tema B 62, 1996.
21. Research Grant-in-Aid no. 06650208 from the Ministry of Education, Science and Culture of Japan, 1996.
22. "Câmpurile electrice și magnetice de joasă frecvență produse de instalațiile electrotehnice, factor de "poluare electromagnetică" a mediului biologic", beneficiar Ministerul Cercetării și Tehnologiei, 510 B, Tema B 3, 1995.
23. Research Grant RAL R01664-01, Duke University, beneficiar IBM, Research Triangle Park, NC, USA, 1993.
24. "Studies in Convective Cooling of Electronic Packages II", 1993 - 1994 Research Grant, North Carolina Supercomputing Center, Research Triangle Park, NC, USA.
25. "Optimal Geometries for Microchannel Heat Sinks", 1992 - 1993 Research Grant CBT920007P, Pittsburgh Supercomputing Center, PA, USA.
26. "Studies in Convective Cooling of Electronic Packages I", 1992 - 1993 Research Grant, North Carolina Supercomputing Center, Research Triangle Park, NC, USA.
27. "Calculul complet al reactanțelor, forțelor și solicitărilor mecanice în înfășurări și în izolația principală pentru transformatoare", Contract nr. 2-9-1 / 1989, beneficiar ICSIT - MTAE Craiova.
28. "Pachet de programe destinat simulării circuitelor logice la nivel de porți cu luarea în considerare a timpilor de propagare specifici acestor elemente", Contract nr. 2-7-13/ 1987, beneficiar ITCI, București.
29. "Echipament electrotehnic pentru instalația de laborator destinat studiului solidificării materialelor metalice", Contract nr. 3-2-5 / 1982, beneficiar ICPPFTA, București.
30. "Instalație de turnare în câmp magnetic", ICPPFTA, Contract nr. 16 / 1982, f. 2.2, beneficiar Centrul Național pentru Industria Aeronautică Română (CNIAR).

G. Rapoarte, seminarii și comunicări

Internationale

1. Morega, A.M., “Fundamentals of field – matter interactions” – PolyCerNet Marie Curie Research Training Network MRTN-019601, 20-22 Septembrie 2007.
2. Morega, A.M., Invited lecture on “Industrial Electromagnetics”, COMSOL Conference, Praga, 26-27 Octombrie, 2006.
3. Morega, A.M., Nishimura, T., “Double Diffusion Convection”, Tuesday, February 7, 2006, Center for Advanced Power Systems, Florida State University, USA.
4. Morega, A.M., Invited lecture “Comsol multiphysics – a sense of”, COMSOL Workshop, 15 November, 2005, Budapesta.

5. Morega, A.M., Ordonez, J.C, Vargas, J.V.C., Masson, P.J., “Thermal sizing model for HTS motors stators – preliminary study”, CAPS-FSU, FL, USA, Feb. 2005
6. Morega, A.M. and Faur, S.C., “A FEM analysis of biomagnetic fluid mixing in a rectangular cavity induced by the action of a magnetic field”, Colocviul National de Mecanica Fluidelor si Aplicatiile ei, “Caius Iacob”, UPB, Fac. Energetica, Bucuresti, 15-16 Oct. 2004
7. Morega, A.M. “Magnetic control of double diffusive convection transport processes in electroconductive melts”, YAMAGUCHI UNIVERSITY, Tokiwadai, Ube, 755, Japan, 30 Iulie, 2001.
8. Morega, A.M., Nishimura, T., Bian, Y. and Kunitsugu, K., “Laminar transport processes in ducts with cross-sectional periodicity”, Conferinta Nationala “Caius Iacob”, 2001, Academia Romana
9. *Seminarul ICONIC/SCADA* - SIS International, reprezentantul in Romania al firmei ICONICS din SUA si Catedra de Masini Materiale si Actionari, Facultatea de Electrotehnica, Universitatea POLITEHNICA din Bucuresti, 7 noiembrie 2000, ora 9,30, Universitatea Politehnica Bucuresti, Facultatea de Electrotehnica, (Holul EA)
10. Morega, Al. M., Paceagiu, B. and Panaitescu, A., "Magnetic field influence on transport processes in a convective system", Conferinta anuala "Caius Iacob" de mecanica fluidelor si aplicatiile ei tehnice, Universitatea "Babes - Bolyai", Cluj-Napoca, Octombrie 1998.
11. Morega, Al. M., “Pulsatile Flow Vortex Dynamics in Periodically Grooved Channels”, Conferinta internationala *Analysis and Control of Differential Systems*, UNIVERSITATEA OVIDIU din Constanta, 15 - 19 Septembrie 1997.
12. Morega, Al. M., Seminar asupra modelarii fenomenelor convective dublu-difuzive, YAMAGUCHI UNIVERSITY, Tokiwadai, Ube, 755, Japan, August 27, 1996.
13. Mocanu, C. I. and Morega, Al. M., "Intorduction to Hertz's SR - a complementary theory to Einstein's SR", the Institute for Basic Research Workshops, August 8-13, 1995, Monteroduni, Italy.
14. Morega, Al. M. si Morega, M., "A qualitative approach to the eigenvalue cardiography", the Institute for Basic Research Workshops, August 8-13, 1995, Monteroduni, Italy.
15. Morega, Al. M., Seminar asupra racirii circuitelor si dispozitivelor electronice, AUBURN UNIVERSITY, AL, USA, Mai 1993.
16. Mocanu, C., I., Morega, M. si Morega, Al. M., "Thomas Rotation. An unsolved paradox", *Frontiers of Fundamental Physics. International Conference, Olympia Greece, 27 - 30 September 1993. Second proceedings. Quantum Physics with real waves. Einstein locality and Bell's theorem. Lorenz relativity.* Hadronic Press.
17. Morega, Al. M., *Forced Convection Cooling of Electronic Devices*, raport intern IBM - DUKE UNIVERSITY, NC, USA Octombrie 1992.
18. Morega, Al. M., Raport preliminar asupra lucrarilor proiectului RAL R01664-01, IBM - Research Triangle Park Division, NC, Martie 1992.
19. Morega, Al. M. and Minciunescu, P. "Electrostatic qualification of high and very high voltage cape - rode insulators", *Proceedings of the 8th Annual Review of Progress in Applied Computational Electromagnetics*, ACES, the Naval Postgraduate School, Monterey, CA, USA, 1992.

Nationale

1. Morega, A.M. “Aplicatii ale supraconductoarelor de temperatura inalta”, Facultatea de Inginerie Mecanica, Universitate POLITEHNICA din Bucuresti, marti 26 februarie 2008 in sala CG125 la ora 14.00.
2. Morega, Al., “Problema directa si inversa ECG”, Modelare Matematica în Stiintele Vietii, UPB, Facultatea de Electrotehnica, Laboratorul IEM si Inst. Matematica Aplicata “Caius Iacob”, Academia Româna, 9 Februarie 2002, EA009.
3. Morega, A.M., Nishimura, T., Bian, Y. and Kunitsugu, K., “Laminar transport processes in ducts with cross-sectional periodicity”, Institutul de Matematica Aplicata “Caius Iacob”, Academia Romana, Bucuresti, 2001.
4. Morega, A.M., Nishimura, T. si Kuni, T. "Modelarea convectiei dublu difuzive într-un sistem salin stratificat", Universitatea Tehnica din Brasov, 1999.
5. Ion, S. si Morega, A.M., "Filtrarea oscilațiilor Gibbs cu aplicatie la metoda spectrala de colocatie Cebâsev", Universitatea Tehnica din Brasov, 1999.
6. Morega, A.M., "Mediul de dezvoltare MATHEMATICA pentru probleme la limita în inginerie", Academia de Studii Economice, organizat de reprezentanta Wolfram Research la Bucuresti, Iunie 1999.
7. Morega, A.M., Paceagiu, B. and Panaitescu, A., "Magnetic field influence on transport processes in a convective system", *Conferinta Nationala Anuala de Mecanica Fluidelor si aplicatiile ei Tehnice "Caius Iacob"* 18-20 Sept. 1998,
8. Morega, Al. M., *Modelarea pseudo-spectrala a proceselor convective dublu-difuzive în incinte rectangulare*, Facultatea de Matematici, UNIVERSITATEA DIN BUCURESTI, Octombrie 1996.
9. Morega, Al. M., *O metoda de colocatie integrala pentru rezolvarea unei probleme de transfer termic convectiv cu schimbare de faza*, Facultatea de Matematici, UNIVERSITATEA DIN BUCURESTI, Aprilie 1997.
10. Morega, Al. M., *Fenomene dinamice specifice curgerii pulsatorii în canale cu obstacole*, Colocviul *Mecanica Fluidelor si aplicatiile ei tehnice*, UPB, 13 - 14 Oct. 1997, Bucuresti.

11. Morega, Al. M., Morega, M., *Modelarea numerica a unor proceduri de stimulare electrice si magnetice cu aplicatii în cardiologie*, *Congresul National de Cardiologie*, Mai, Spitalul Clinic Fundeni, Bucuresti, 1997.
12. Morega, Al. M., Morega, M., *Probleme în modelarea numeria a stimulării electrice cardiace*, computer poster, *Congresul National de Cardiologie*, Oct. 1- 4, Hotel Parc, Bucuresti, 1997.