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dr Đorđe Herceg

Curriculum Vitae

Personal data

- Date of birth: 6.3.1973.
- Place of birth: Novi Sad, Serbia
- Marital status: married, two children

Languages

- Mother tongue: Serbian
- Active knowledge of English and German

Education

1. Undergraduate studies: Faculty of Sciences, Novi Sad, Serbia, BSc in Computer Science, 1991-1995. Grade average: 9.28.
2. Graduate studies: Faculty of Sciences, Novi Sad, Serbia, BSc in Mathematics/Computer Science, 1995-1997. Master's thesis "Računarska implementacija i interpretacija iterativnih postupaka za rešavanje jednačina" defended on 26.9.1997. Grade average: 10.00.
3. PhD studies: Faculty of Sciences, Novi Sad, Serbia. PhD thesis "Konvergencija simultanih postupaka za nalaženje nula polinoma" defended on 16.7.1999.

Professional experience

- Full Professor – Faculty of Sciences, Novi Sad, Serbia, since 2009.
- Associate Professor – Faculty of Sciences, Novi Sad, Serbia, 2004-2009.
- Assistant Professor – Faculty of Sciences, Novi Sad, Serbia, 1999-2004.
- Teaching Assistant – Faculty of Sciences, Novi Sad, Serbia, 1995-1999.

Specializations

- University of Illinois at Chicago, SAD, July 1997, 30 days
- Elektrotehnički fakultet Univerziteta u Mariboru, Slovenija, January 2004, 7 days
- Florida International University, SAD, July 2007, 30 days
- Microsoft course "Programming SQL Server 2000", SC Akademija, Belgrade, Serbia, 2003.
- Microsoft course "Programming with C#", CET, Belgrade, Serbia, 2004.

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Teaching experience

Former

Faculty of Sciences, Novi Sad

- Informatics and biosystems modeling, I godina, za studente ekologije i zaštite životne sredine, fond časova 2+0, 2000-2001
- Mathematics, I godina, za studente dvopredmetnih studija, fond časova 3+0, 2000-2001
- Introduction to computer science 1, I godina smer: A1, A2, B1, B2, fond časova 2+0, 2000-2007
- Introduction to computer science 2, I godina smer: A1, A2, B1, B2, fond časova 2+0, 2000-2007
- Symbolic computation, I godina smer: B1, B2, fond časova 3+2, 2004-2007
- Computer architecture and organization, II godina smer: C1, C3, fond časova 2+0, 2001-2005
- Mathematics, II godina, smer: geografija-informatika, fond časova 3+0, 2004
- .NET technologies, III godina, smer: C1, C3, fond časova: 2+2, 2004
- Computer networks – III godina, smer: C2, C3, fond časova: 2+0, 2006

Faculty of Law, Novi Sad

- Information systems, smer unutrašnjih poslova, I i II godina, fond časova: 2+2, 2004-2008

Faculty of Physical Education, Novi Sad

- Informatics, IV godina, fond časova: 2+2, 2006-2008

Viša hemijsko-tehnološka škola, Šabac

- Numerical mathematics, II godina, predavanja i vežbe, fond časova: 3+2, 2005-2008

Secondary school "Jovan Jovanović Zmaj", Novi Sad

- Programming, II godina, fond časova 4, 2001-2002

Current

Faculty of Sciences, Novi Sad

- Computer science 2, I godina, smer matematika, fond časova 2+0 (2 grupe), 2008
- Symbolic computation, I godina, smer I, fond časova 2+2, 2008
- Business informatics, IV godina, smer matematika finansija, fond časova 2+0, 2004-2008

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- Methodics of informatics teaching, II godina, smer geografija-informatika, fond časova 3+0, 2008
- Methodics of informatics teaching, III godina, smer informatika, fond časova 2+2, 2009
- Numerical analysis, III godina, smer informatika, fond časova: 3+0, 2006-2008

Faculty of Medicine, Pharmacology, Novi Sad

- Biomathematics, smer farmacija, I godina, fond časova: 0+2, 2008

Faculty of Law, Novi Sad

- Information systems, smer unutrašnjih poslova, I godina, fond časova: 2+2, 2010

Secondary school "Jovan Jovanović Zmaj", Novi Sad

- Programming, I godina, fond časova 3, 2010

Theses supervised

Master's theses supervised

- Agim Mila (computer science):
Distribuirano upravljanje rezervacijom turističkih kapaciteta, 2006.
- Davorka Radaković (computer science):
Proširiva modularna platforma za dinamičku geometriju, 2010.

Bachelor's theses supervised

1. Kaplar Gabriela, Active Server Pages aplikacija za generisanje i pretraživanje rasporeda časova u IIS/SQL Server okruženju, diplomski rad, odbranjen 2001.
2. Isailović Dragana, Microsoft Access/SQL Server aplikacija za vođenje evidencije o podeli nastave, diplomski rad, odbranjen 2002.
3. Dašić Snežana, MS Access/MS SQL Server aplikacija za vođenje evidencije o kursevima, diplomski rad, odbranjen 2002.
4. Mila Agim, XML Web Servisi u Microsoft .NET okruženju, diplomski rad, odbranjen 2002.
5. Milekić Branislava, Web aplikacija za automatsko testiranje studenata u Microsoft ASP/IIS okruženju, diplomski rad, odbranjen 2002.
6. Vujić Nevena, Upravljanje projektima uz Microsoft Project Central, SQL Server i .NET tehnologije, diplomski rad, odbranjen 2003.
7. Peričević Nada, Realizacija aplikacije za vođenje evidencije o nastavi na .NET platformi, diplomski rad, odbranjen 2003.
8. Stanković Aleksandar, Web mail klijent u ASP.NET tehnologiji, diplomski rad, odbranjen 2003.
9. Holod Igor, Skalabilne distribuirane aplikacije pomoću .NET Remoting tehnologije, diplomski rad, odbranjen 2003.

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10. Kešelj, Dušan, Motion detection in video feed using WIA .NET, B. S. Thesis, 2005.
11. Gerhat, Timea, Visual Formula Editor, B. S. Thesis, 2006.
12. Hromiš, Vladimir, Interaktivna geometrija u prostoru, B. S. Thesis, 2006.
13. Manevski, Ognjen, Sistem za elektronsko polaganje ispita, B. S. Thesis, 2006.
14. Marinkov, Biljana, Implementacija obrazovnog softvera za rad sa razlomcima, B. S. Thesis, 2006.
15. Bodroški, Žarko, ASP.NET Web parts and Web controls, B. S. Thesis, 2006.
16. Radić, Dragan, Interactive Databound Calendar Control, B. S. Thesis, 2006.
17. Bajić, Biljana, Microsoft Dynamics NAV and its Application at the University of Novi Sad, B. S. Thesis, 2006.
18. Mišan, Gordana, SQL Reporting Services 2005 in the Distributed Environment, B. S. Thesis, 2006.
19. Zolnjan, Daniel, Implementacija informacionog sistema za analizu bankovnih izvoda, B. S. Thesis, 2006.
20. Bičkei, Tibor, Vizuelni editor matematičkih formula, B. S. Thesis, 2007.
21. Gilice, Hilda, Nastava programskog jezika C# u srednjoj školi, B. S. Thesis, 2007.
22. Bobić, Vladimir, Platforma za razvoj modularnih distribuiranih poslovnih aplikacija, B. S. Thesis, 2008.
23. Mojić, Aleksandar, Generator anketa baziran na XML-u, B. S. Thesis, 2008.

Scholarly service

- Head of the GeoGebra Institute of Novi Sad, Serbia
- Held courses under the Accredited programme no. 37 "IT in preparation and teaching of mathematics in primary and secondary schools" of the Institute for Education Improvement, 2006-present.
- Chair of the Organizing Committee of the XVII Conference on Applied Mathematics PRIM 2006, Department of Mathematics and Informatics, Novi Sad, Kragujevac, September 25-27, 2006.
- Editor of the Proceedings of the XVII Conference on Applied Mathematics PRIM 2006, Department of Mathematics and Informatics, Novi Sad, 2006 (with H. Zarin.)
- Member of the Organizing Committee of the XVIII Conference on Applied Mathematics PRIM 2006, Department of Mathematics and Informatics, Novi Sad, Subotica, May 25-27, 2009.
- Editor of the Proceedings of the XVIII Conference on Applied Mathematics PRIM 2009, Department of Mathematics and Informatics, Novi Sad, 2009 (with H. Zarin.)
- Member of the Organizing Committee:
 - GeoGebra Conference for Southeast Europe, January 15-17, 2011, Novi Sad, Serbia

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- 12th Serbian Mathematical Congress, 28. avgust – 2. septembar 2008, Novi Sad, Srbija
- "PRIM 2004", XVI Conference on Applied Mathematics, May 31 – June 4, 2004, Budva, Serbia and Montenegro
- "PRIM 2002", XV Conference on Applied Mathematics, May 26-31, 2002, Zlatibor, Yugoslavia
- "PRIM 2000", XIV Conference on Applied Mathematics, May 29 – June 2, 2000, Palić, Yugoslavia

Software

- Administrator of the computer network, Web and Mail at the Department of Mathematics and Informatics, Faculty of Sciences, Novi Sad, 1997-2009.
- Accounting and reporting software for the Radioactivity Measurement Lab at the Department of Physics, Faculty of Sciences, Novi Sad, 2006-present.
- Accounting software for the Faculty of Sciences, Novi Sad, 1999-present.
- Accounting software for the Faculty of Agriculture, Novi Sad, 2004-2009.
- Accounting software for the youth sports organization Sokolsko društvo "Vojvodina", Novi Sad, 2003.
- Accounting software for the Municipal Red Cross in Čoka, Serbia, 2001-2004.
- Microsoft Certified Professional: 70-228, od 2002.

Courses

- Naftna Industrija Srbije, Microsoft Excel in Accounting, 2010.
- Meridian Bank, Novi Sad, Microsoft Project Server, 2008.
- C# programming for the students of the Faculty of Sciences, Novi Sad, sponsored by Microsoft Serbia, 2005.
- Lafarge BFC, Beočin, two courses on Microsoft Project, 2002–2003.
- Republički zavod za tržište rada, pet kurseva informatičkog opismenjavanja nezaposlenih lica u periodu od 2000. do 2003. godine.
- Telekom Srbija, Microsoft Excel and Access, 2001 and 2003.
- Microsoft SQL Server for the students of the Faculty of Sciences, Novi Sad, 2002.

Books

1. Surla, K., **Herceg, Đ.**, Rapajić, S., *Mathematica za fizičare i hemičare*, Prirodno-matematički fakultet, Novi Sad, 1998, 193 strane
2. Budimac, Z., **Herceg, Đ.**, Popović, A., *Uvod u Windows 95*, Prirodno-matematički fakultet, Novi Sad, prvo izdanje 1999, drugo izdanje 1999, treće izdanje 2001, 69 strana

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3. Budimac, Z., **Herceg, Đ.**, Popović, A., Uvod u obradu teksta i tekst-procesor Word, Prirodno-matematički fakultet, Novi Sad, prvo izdanje 1999, drugo izdanje 2000, treće izdanje 2002, 131 strana
4. **Herceg, Đ.**, Ivanović, M., Uvod u tabelarne proračune sa programom Excel, Prirodno-matematički fakultet, Novi Sad, prvo izdanje 2000, drugo izdanje 2001, treće izdanje 2002, 89 strana
5. Herceg, D., **Herceg, Đ.**, Numerička matematika, Stylos, Novi Sad, prvo izdanje 2003, 144 strana, CD-ROM, ISBN 86-7473-137-6
6. Herceg, D., **Herceg, Đ.**, Elementi linearne algebre i *Mathematica*, Symbol, Novi Sad, 2007, 88 strana
7. Herceg, D., **Herceg, Đ.**, Elementi matematičke analize i *Mathematica*, Symbol, Novi Sad, 2008, 85 strana
8. Herceg, D., **Herceg, Đ.**, Elementi diferencijalnog računa i *Mathematica*, Symbol, Novi Sad, 2008, 101 strana
9. Herceg, D., **Herceg, Đ.**, Elementi integralnog računa i *Mathematica*, Symbol, Novi Sad, 2008, 105 strana
10. Herceg, D., **Herceg, Đ.**, Elementi numeričke analize i *Mathematica*, Symbol, Novi Sad, 2008, 111 strana
11. Krejić, N., **Herceg, Đ.**, Matematika i *Mathematica*, Prirodno-matematički fakultet, Novi Sad, prvo izdanje 1993, drugo izdanje 1994. treće izdanje 1997, 200 strana.
12. Herceg, D., Petrović, N., **Herceg, Đ.**, Matematičke tablice, Todor, 1997, drugo izdanje 2000, 200 strana.

Scientific publications

1. Pilipović, S., **Herceg, Đ.**, On numerical solving of boundary value problems in *Mathematica*. IX Conference on Applied Mathematics, D. Herceg, Lj. Cvetković, eds, Institute of Mathematics, Novi Sad, 1995, pp. 111-126.
M63 – 0.5
2. Petković, M.S., **Herceg, Đ.**, Simultaneous methods with corrections on MIMD parallel computers. *Proceedings of the VII Conference on Logic and Computer Science Lira '95*, Đ. Paunić, R. Tošić, eds, Novi Sad, Institute of Mathematics, Novi Sad, pp. 129-136.
M63 – 0.5
3. **Herceg, Đ.**, Krejić, N., Computation of coefficients of difference formulas on an arbitrary mesh. *Proceedings of the VII Conference on Logic and Computer Science Lira '95*, Đ. Paunić, R. Tošić, eds, Novi Sad, Institute of Mathematics, Novi Sad, pp. 45-51.
M63 – 0.5
4. Petković, M.S., **Herceg, Đ.**, On the localization of polynomial zeros, XI Conference on Applied Mathematics, D. Herceg, K. Surla, eds, Institute of Mathematics, Novi Sad, 1997, pp. 319-330.
M63 – 0.5
5. Petković, M.S., **Herceg, Đ.**, Point estimation and safe convergence of root-finding simultaneous methods. *Scientific Review*, 21-22(1996), pp. 117-130.
M52 – 1.5

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6. Petković, M.S., **Herceg, Đ.**, Methods with corrections for the simultaneous inclusion of polynomial zeros, *Nonlinear Analysis, Theory, Methods & Applications*, 30,1(1997), pp. 73-82.
M22 – 5
7. **Herceg, Đ.**, Tričković, S., Petković, M.S., On the fourth order methods of Weierstrass' type, *Nonlinear Analysis, Theory, Methods & Applications*, 30,1(1997), pp. 83-88.
M22 – 5
8. Ilić S., Petković, M.S., **Herceg, Đ.**, A note on Babylonian square-root algorithm and related variants, *Novi Sad Journal of Mathematics*, 26 (1), 1996, pp. 155-162.
M23 – 3
9. Petković, M.S., **Herceg, Đ.**, Börsch-Supan-Like Methods: Point estimation and Parallel Implementation, *Intern. J. Comput. Math.*, Vol. 64, 1997, pp. 327-341.
M23 – 3
10. Petković, M.S., Tričković, S., **Herceg, Đ.**, On Euler-like methods for the simultaneous approximation of polynomial zeros, *Japan J. Indust. Appl. Math.* 15 (1998), pp. 295-315.
M23 – 3
11. **Herceg, Đ.**, An algorithm for localization of polynomial zeros, *Proceedings of VIII International Conference on Logic and Computer Science Lira '97*, R. Tošić, Z. Budimac, eds, Institute of Mathematics, Novi Sad, 1997, pp 67-75.
M63 – 0.5
12. Ilić, S., **Herceg, Đ.**, Safe convergence of Tanabe's method, *Novi Sad Journal of Mathematics*, 28,3(1998), pp. 51-60.
M51 – 2
13. Petković, M.S., Tričković, S., **Herceg, Đ.**, Higher order Euler-like methods, *Novi Sad Journal of Mathematics*, 28,3(1998), pp. 129-136.
M51 – 2
14. **Herceg, Đ.**, Računarska implementacija i interpretacija iterativnih postupaka za rešavanje jednačina, magistarska teza, Univerzitet u Novom Sadu (1997).
15. Ilić, S., **Herceg, Đ.**, Petković, M.S., On the convergence of Halley-like method, *Novi Sad Journal of Mathematics*, 28,3(1998), pp. 61-70.
M51 – 2
16. Petković, M.S., **Herceg, Đ.**, Ilić, S., Point estimation and some applications to iterative methods, *BIT*, 38:1(1998), pp. 112-126.
M22 – 5
17. Petković, M.S., **Herceg, Đ.**, Ilić, S., Safe convergence of simultaneous methods for polynomial zeros, *Numerical Algorithms*, 17 (1998), pp. 313-331.
M22 – 5
18. Petković, M. S., **Herceg, Đ.**, On the convergence of Wang-Zheng's method. *J. Comput. Appl. Math.*, 91 (1998), pp. 123-135.
M23 – 3

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19. Petković, M. S., Petković, Lj., **Herceg, Đ.**, Point estimation of a family of simultaneous zero-finding methods, *Comput. Math. Appl.*, 36 (1998), pp. 1-12.
M23 – 3
20. Herceg, D. L., **Herceg, Đ.**, Numerical solution of a nonlinear electrical circuit using *Mathematica*, *Bulletins for Applied & Computer Mathematics (BAM)*, 1669 (1999), pp. 77-86.
M33 – 1
21. Petković, M. S., **Herceg, Đ.**, Point estimation of simultaneous methods for solving polynomial equations: a survey, *Journal of Computational and Applied Mathematics*, 136 (2001), pp. 283-307.
M22 – 5
22. **Herceg, Đ.**, Tošić, S., Herceg, D. L., Nastava organizacije i arhitekture računara pomoću programa za simulaciju elektronskih kola, I skup o nastavi računarstva NaRa 2002, zbornik predavanja po pozivu (2002), pp. 19-26
M61-1.5
23. **Herceg, Đ.**, Vidaković, J., Jakšić, M., Nastava programiranja za studente matematike, Zbornik predavanja po pozivu seminara o nastavi računarstva NaRa 2003 (Zbornik izdat na CD-ROM medijumu) (2003).
M61-1.5
24. Herceg, D., **Herceg, Đ.**, On a fourth-order finite difference method for nonlinear two-point boundary value problems, *Novi Sad Journal of Mathematics*. 33,2(2003), pp. 173-180.
M51 – 2
25. Herceg, D., **Herceg, Đ.**, On a nonequidistant difference scheme of Chawla type, *Novi Sad Journal of Mathematics* 34,1(2004), pp. 171-190.
M51 – 2
26. **Herceg, Đ.**, Mila, A., Integration of COM+ and .NET Components in Distributed Business Applications, *Proceedings of the XVI Conference on Applied Mathematics PRIM 2004*, N. Krejić, Z. Lužanin, eds, Department of Mathematics and Informatics, Novi Sad, 2006, pp. 185-191.
M63 – 0.5
27. **Herceg, Đ.**, Vidaković, M., Distributed Accounting Processing using ADO.NET and XML, *Proceedings of the XVI Conference on Applied Mathematics PRIM 2004*, N. Krejić, Z. Lužanin, eds, Department of Mathematics and Informatics, Novi Sad, 2006, pp. 193-201.
M63 – 0.5
28. **Herceg, Đ.**, Vidaković, M., Interactive Distributed Quiz Display Software, *Proceedings of the XVII Conference on Applied Mathematics PRIM 2006*, Đ. Herceg, H. Zarin, eds, Department of Mathematics and Informatics, Novi Sad, 2007, pp. 115-122.
M63 – 0.5
29. **Herceg, Đ.**, Upotreba jezika C# u školskoj nastavi informatike, *Tehnologija, informatika, obrazovanje* 4, M. Danilović, S. Popov, eds., Institut za pedagoška istraživanja Beograd; Centar za razvoj i primenu nauke, tehnologije i informatike Novi Sad, Prirodno matematički fakultet u Novom Sadu, Willy, Novi Sad, 2007, 713-

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717.

M63 – 0.5

30. Herceg, D., **Herceg, Đ.**, Numerical mathematics with GeoGebra in high school, Teaching Mathematics and Computer Science, 6/2(2008), pp. 363-378
M23 – 3
31. **Herceg Đ.**, Herceg D., Some fourth-order methods for nonlinear equations, Novi Sad Journal of Mathematics, 37,2(2007), pp. 241-247.
M51 – 2
32. Herceg D, **Herceg Đ.**, On a fourth-order finite-difference method for singularly perturbed boundary value problems, Applied Mathematics and Computation 203(2008), pp. 828–837.
M22 – 5
33. **Herceg Đ.**, Herceg D., On a third-order family of methods for solving nonlinear equations, International Journal of Computer Mathematics, (2009), pp. 1-9.
DOI: 10.1080/00207160802684434
M23 – 3
34. Petković M. S., Petković L. D., **Herceg Đ.**, On Schröder's families of root-finding methods, J. Computational and Applied Mathematics, 233(2010), pp. 1755-1762.
doi:10.1016/j.cam.2009.09.012
M21 - 8
35. **Herceg, Đ.**, Herceg, D., A method for obtaining third-order iterative formulas, Novi Sad Journal of Mathematics, 38,2(2008), pp.195-207.
M51 – 2
36. Herceg, D., **Herceg, Đ.**, Skalarni proizvod i približna integracija, Pedagoška stvarnost, LV, 1-2(2009), 88-102
M52
37. **Herceg, Đ.**, Herceg, D., Definite integral and computer, The Teaching of Mathematics, XII,1(2009) 33-44
M52
38. **Herceg, Đ.**, On a finite-difference scheme for singularly perturbed boundary value problems on Shishkin mesh, Novi Sad Journal of Mathematics, 39,1 (2009) (in print)
M51 – 2
39. Petković, M. S., **Herceg, Đ.**, Milošević D. M., Single step Newton-Jarratt methods for the inclusion of polynomial zeros, Novi Sad Journal of Mathematics 39,1 (2009) (in print)
M51 – 2
40. **Herceg, Đ.**, On a finite-difference scheme for singularly perturbed nonlocal boundary value problems, Novi Sad Journal of Mathematics, 39,2 (2009) (in print)
M51 – 2
41. Petković, M. S., **Herceg, Đ.**, Petković, I., On a simultaneous method of Newton-Weierstrass' type for finding all zeros of a polynomial, Applied Mathematics and Computation, 215 (2009), no. 7, 2456--2463; MR2563459.
M-22 – 5

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42. **Herceg, Đ.**, Marčićević, Ž., A lightweight conference management system on ASP.NET, Novi Sad Journal of Mathematics 39,1 (2009), 111-121
43. **Herceg, Đ.**, An almost fourth-order finite-difference scheme for singularly perturbed problems, Numerical Algorithms, (poslato)
44. **Herceg, Đ.**, Uniform fourth order difference scheme for singularly perturbed nonlocal boundary value problem, Journal of Computational Mathematics, (poslato)
45. Radaković, D., **Herceg, Đ.**, The use of WPF for development of interactive geometry software, Acta Universitatis Matthiae Belii ser. Mathematics, 16 (2009), 65-80.
46. Herceg, D., **Herceg, Đ.**, Interpolacija i GeoGebra, Pedagoška stvarnost, LV, 9-10(2009), 897-908
M52
47. **Herceg, Đ.**, Džojstik u nastavi, Pedagoška stvarnost, LV, 9-10(2009), 991-999
M52

Softverska rešenja

- **Herceg, Đ.**, Vidaković, M., Softver za interaktivnu prezentaciju matematičkih sadržaja "Zmajematika Čitač", softverski dodatak uz knjigu „Zmajematika“, V090206, ISBN 86-489-0509-5, Zmaj, Novi Sad, 2006.
M85 – 2
- **Herceg, Đ.**, Softversko rešenje za praćenje procesa merenja i izveštavanje za potrebe Laboratorije za ispitivanje radioaktivnosti uzoraka i doze jonizujućeg zračenja (ATC 01-167), Katedra za nuklearnu fiziku, Departman za fiziku, Prirodno-matematički fakultet, Novi Sad, 2006-2008.
M85 – 2
- **Herceg, Đ.**, Softversko rešenje za prijavljivanje učešća i obradu podataka prijavljenih učesnika na 12. Srpskom matematičkom kongresu, Prirodno-matematički fakultet, Novi Sad, 2008. (<http://sites.im.ns.ac.yu/events/2008/smkongres/>)
M85 – 2
- Herceg, D., **Herceg, Đ.**, *Alati u GeoGebri za numeričku matematiku (GeoGebra Tools for Numerical Mathematics)*, opisani u radu „Numerics with GeoGebra in High School“, Teaching Mathematics and Computer Science, University of Debrecen, Mađarska (<http://www.im.ns.ac.yu/personal/hercegd/CADGME2007/>).
M85 – 2

Monografije na engleskom jeziku

1. Petković, M., **Herceg, Đ.**, Ilić, S., Point Estimation Theory and its Applications, Institute of Mathematics, Faculty of Science, University of Novi Sad, 1997, 168 pgs.
M12 – 10

Participation at scientific events

1. Ninth Conference on Applied Mathematics "Prim '94", Budva, Yugoslavia, May 30–June 1, 1994.

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2. VII Conference on Logic and Computer Science "Lira '95", Novi Sad, Yugoslavia, September 26–30, 1995.
3. "SinfoN '95", Student Papers in Computer Science and Informatics, Zlatibor, Yugoslavia, November 4–7, 1995.
4. "YU INFO '96", Computer Sciences and Informatics Symposium, Brezovica, Yugoslavia, April 2–5, 1996.
5. Eleventh Conference on Applied Mathematics "Prim '96", Budva, Yugoslavia, June 3–6, 1996.
6. International Memorial Conference "D. S. Mitrinović", Niš, Yugoslavia, June 20–22, 1996.
7. The Second World Congress of Nonlinear Analysts "WCNA 96", Athens, Greece, July 10 – 17, 1996.
8. 116th PAMM-Conference, Göd, Hungary, October 10-13, 1996.
9. 117th PAMM-Conference, Balatonalmadi, Hungary, May 8-11, 1997.
10. VIII Conference on Logic and Computer Science "LIRA '97", Novi Sad, Yugoslavia, September 1-4, 1997.
11. Twelfth Conference on Applied mathematics "PRIM '97", Palić, Yugoslavia, September 8-12, 1997.
12. Thirteenth Conference on Applied Mathematics "PRIM '98", Igalo, Yugoslavia, May 25-29, 1998.
13. 127th PAMM-Conference, Göd, Hungary, October 14-17, 1999.
14. Fourteenth Conference on Applied Mathematics "PRIM 2000", Palić, Yugoslavia, May 29-June 2, 2000.
15. Microsoft Developer Days 2001, Čatež, Slovenia, November 30, 2001.
16. Republički seminar o nastavi informatike i računarstva 2002, Novi Sad, Yugoslavia, January 11-12, 2002.
17. Fifteenth Conference on Applied Mathematics "PRIM 2002", Zlatibor, Yugoslavia, May 27-31, 2002.
18. Microsoft Sinergija 02, Belgrade, Yugoslavia, June 5-6, 2002.
19. Seminar on Teaching of Computer Science "NARA 2002", Novi Sad, Yugoslavia, June 6-7, 2002.
20. Microsoft MSDN/TechNet Conference, Belgrade, Yugoslavia, October 24, 2002.
21. I seminar o upotrebi RAčunara u NASTavi "RANA 2003", Novi Sad, January 15-17, 2003.
22. Microsoft MSDN/TechNet Conference, Belgrade, Serbia and Montenegro, March 27, 2003.
23. Microsoft Sinergija 03, Belgrade, Serbia and Montenegro, June 19-20, 2003
24. Microsoft Research Faculty Summit, Cambridge, UK, July 15-17, 2003
25. Seminar Računari U Nastavi - RUN 03, NaRa 03, Novi Sad, September 5-6, 2003.
26. Microsoft MSDN/TechNet Conference, Belgrade, Serbia and Montenegro, November 5-6, 2003.
27. XVI Conference on Applied Mathematics PRIM 2004, Budva, May 31 – June 4, 2004.
28. Preliminary AMASES Europe enlargement meeting (AEE), Quantitative Methods applied to Economics, Finance and Social Sciences, University of Trieste, Italy, October 1-2, 2004.

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29. Microsoft Academic Days, Prague, Czech Republic, November 16-18, 2004.
30. Microsoft Sinergija 05, Belgrade, Serbia and Montenegro, October 12-14, 2005.
31. GAMM Jahrestagung 2006, Berlin, Germany, March 27 - 31, 2006.
32. Microsoft Web Administration Summit, Belgrade, Serbia and Montenegro, May 30, 2006.
33. XVII Conference on Applied Mathematics PRIM 2006, Kragujevac, Serbia and Montenegro, September 25-27, 2006.
34. Microsoft Sinergija 06, Novi Sad, Serbia, October 9-11, 2006.
35. Microsoft Express Day, Belgrade, Serbia, November 24, 2006.
36. CADGME 2007 - First Central- and Eastern European Conference on Computer Algebra- and Dynamic Geometry Systems in Mathematics Education, University of Pécs, Pollack Mihály Faculty of Engineering, Hungary, 20-23 June, 2007.
37. Microsoft Sinergija 08, Novi Sad, Serbia, October 14-17, 2008.
38. 12th Serbian Mathematical Congress, Novi Sad, August 28-September 2, 2008.
39. XVIII Conference on Applied Mathematics PRIM2009, Subotica, Serbia, May 25-27, 2009.
40. CADGME 2009 - Computer Algebra and Dynamic Geometry Systems in Mathematics Education, RISC, Castle of Hagenberg, Austria. July 11-13, 2009.
41. CADGME 2010 – Computer Algebra and Dynamic Geometry Systems in Mathematics Education, University of South Bohemia, Hluboka nad Vltavou, Czech Republic, June 29-July 1, 2010.
42. The Contribution of Mathematical Software to Education, Varga Tamas ICT 2010, Budapest, Hungary, November 5-6, 2010.
43. GeoGebra Conference for Southeast Europe, Novi Sad, Serbia, January 15-17, 2011.

Lectures

1. **Herceg, Đ.**, On numerical solving of a singularly perturbed BVP, 116th PAMM-Conference, Göd, October 10-13, 1996,
M34 – 0.5
2. **Herceg, Đ.**, Tričković, S., Petković, M.S., On the fourth order methods of Weierstrass' type, The Second World Congress of Nonlinear Analysts "WCNA 96", Athens, Greece, 1996.
M34 – 0.5
3. Herceg, D., **Herceg, Đ.**, Comparison of some difference schemes for a singularly perturbed BVP, *117th PAMM-Conference*, Balatonalmadi, 1997.
M34 – 0.5
4. Komnenov, I., **Herceg, Đ.**, Hermite type difference schemes, *117th PAMM-Conference*, Balatonalmadi, 1997,
M34 – 0.5
5. **Herceg, Đ.**, Herceg, D., A fourth-order tridiagonal finite difference method for singularly perturbed boundary value problems, GAMM Jahrestagung 2006, Berlin, Germany, March 27 - 31, 2006.
M34 – 0.5

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6. Herceg, D, **Herceg, Đ.**, Numerics with GeoGebra in High School, CADGME 2007 - First Central- and Eastern European Conference on Computer Algebra- and Dynamic Geometry Systems in Mathematics Education, University of Pécs, Hungary, 2007.
M34 – 0.5
7. **Herceg, Đ.**, Herceg, D., Numerical integration with GeoGebra in high school, CADGME 2009 – Second Central- and Eastern European Conference on Computer Algebra and Dynamic Geometry Systems in Mathematics Education, RISC, Castle of Hagenbers, Austria, 2009.
M34 – 0.5
8. **Herceg, Đ.**, Numerical solution of one type of singularly perturbed problems in *Mathematica, YU INFO '96*, 1996.
M64 – 0.2
9. Pilipović, S., **Herceg, Đ.**, On numerical solving of boundary value problems in *Mathematica. IX Conference on Applied Mathematics*, D. Herceg, Lj. Cvetković, eds, Institute of Mathematics, Novi Sad, 1995
M64 – 0.2
10. Petković, M.S., **Herceg, Đ.**, Simultaneous methods with corrections on MIMD parallel computers. *VII Conference on Logic and Computer Science Lira '95, Novi Sad*, 1995.
M64 – 0.2
11. **Herceg, Đ.**, Krejić, N., Computation of coefficients of difference formulas on an arbitrary mesh. *VII Conference on Logic and Computer Science Lira '95, Novi Sad*, 1995.
M64 – 0.2
12. Petković, M.S., **Herceg Đ.**, Localization of polynomial zeros, XI Conference on Applied Mathematics, D. Herceg, K. Surla, eds, Institute of Mathematics, Novi Sad, 1997.
M64 – 0.2
13. Petković, M.S., **Herceg, Đ.**, Point estimation and safe convergence of root-finding simultaneous methods. *International Memorial Conference "D. S. Mitrinović"*, Niš, 1996 .
M64 – 0.2
14. **Herceg, Đ.**, An algorithm for localization of polynomial zeros, Proceedings of VIII International Conference on Logic and Computer Science Lira '97, R. Tošić, Z. Budimac, eds, Novi Sad, September 1-4, 1997.
M64 – 0.2
15. **Herceg, Đ.**, An algorithm for localization of polynomial zeros, Proceedings of VIII International Conference on Logic and Computer Science Lira '97, R. Tošić, Z. Budimac, eds, Novi Sad, September 1-4, 1997.
M64 – 0.2
16. Ilić, S., **Herceg, Đ.**, Point estimation of Tanabe's method, *XIII Conference on Applied Mathematics*, Igalo, Yugoslavia 1998.
M64 – 0.2

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17. **Herceg, Đ.**, Herceg, D. L., On finite difference method for singularly perturbed boundary value problems with nonlinear boundary, *XIV Conference on Applied Mathematics PRIM 2000*, Palić, Yugoslavia, 2000.
M64 – 0.2
18. **Herceg, Đ.**, Bajić, B., Building distributed database applications using Microsoft .NET framework, *XV Conference on Applied Mathematics PRIM 2002*, Zlatibor, Yugoslavia, 2000.
M64 – 0.2
19. **Herceg, Đ.**, Proceduralni i funkcionalni stil u nastavi programiranja, *Republički seminar o nastavi informatike i računarstva 2002*, Novi Sad, Yugoslavia, 2002.
M64 – 0.2
20. **Herceg, Đ.**, Vidaković, M., Distributed Accounting Processing using ADO.NET and XML, *XVI Conference on Applied Mathematics PRIM 2004*, Budva, Yugoslavia, 2004.
M64 – 0.2
21. **Herceg, Đ.**, Vidaković, M., Interactive distributed quiz display software, *XVII Conference on Applied Mathematics PRIM 2006*, Kragujevac, Serbia and Montenegro, 2006.
M64 – 0.2
22. **Herceg, Đ.**, Herceg, D., An almost sixth-order finite difference method for singularly perturbed BVPs, *12th Serbian Mathematical Congress*, Novi Sad, 2008.
M64 – 0.2
23. **Herceg, Đ.**, Herceg, D., Integrali i numerička integracija, *Peti međunarodni simpozijum "Tehnologija, informatika i obrazovanje za društvo učenja i znanja"*, Novi Sad, 2009.
M64 – 0.2

Invited lectures

1. Uvod u *Mathematica*-u, *University of Niš*, 1995.
2. Simulacija u nastavi, I seminar o upotrebi RAčunara u NAstavi "RaNa 2003", Prirodno-matematički fakultet, Novi Sad, 15-17. januar 2003.
3. Microsoft Visual C# 2005 Express Edition, Microsoft Express Day, Belgrade, Serbia, November 24, 2006.
4. Application of Microsoft servers and development tools at the Faculty of Sciences in Novi Sad, Microsoft Sinergija 08, Novi Sad, Serbia, October 14-17, 2008.

Awards

- Student award of the University of Novi Sad, 1995.
- "Mihajlo Pupin" award for the MSc Thesis, Matica Srpska, Novi Sad, 1998.
- "Mileva Marić-Ajnštajn" award for the PhD Thesis, University of Novi Sad, 1999.

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Projects

- Projekat Republičkog ministarstva za nauku Srbije: Matematički modeli i strukture sa primenama, 1996-2000.
- Projekat 1840 Ministarstva za nauku i zaštitu životne sredine Republike Srbije: "Numeričko rešavanje operatorskih jednačina", 2001-2004.
- Projekat 144006 Ministarstva za nauku i zaštitu životne sredine Republike Srbije: Numeričke metode za rešavanje nelinearnih matematičkih modela, 2006-2010.

Reviewer

- International Journal of Computer Mathematics, 2008.