

Curriculum Vitae

Ime i prezime Zoran Stanić
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Datum rođenja 1. jul 1975.
Mesto rođenja Ivanjica, Srbija
Državljanstvo Srbija

Obrazovanje:

1982 - 1990 Osnovna škola, Ivanjica
1990 - 1994 Gimnazija Ivanjica
1995 - 2000 Osnovne studije, Matematički fakultet, Univerzitet u Beogradu
2000 - 2004 Postdiplomske studije, Matematički fakultet, Univerzitet u Beogradu
2004 - 2007 Doktorant, Matematički fakultet, Univerzitet u Beogradu

Diplome:

2000 Diplomirani matematičar, Matematički fakultet, Univerzitet u Beogradu
2004 Magistar matematike, Matematički fakultet, Univerzitet u Beogradu, teza: *Geodezijske mreže*.
2007 Doktor matematike, Matematički fakultet, Univerzitet u Beogradu, teza: *Neke rekonstrukcije u spektralnoj teoriji grafova i grafovi sa integralnim Q -spektrinom*.

Zaposlenje:

2000 - 2004 Asistent pripravnik, Matematički fakultet, Univerzitet u Beogradu
2004 - 2008 Asistent, Matematički fakultet, Univerzitet u Beogradu
2008 - Docent, Matematički fakultet, Univerzitet u Beogradu

Dosadašnje aktivnosti u nastavi:

1. Numerička analiza 2
2. Nacrtna geometrija
3. Analitička geometrija (Fizički fakultet, Univerzitet u Beogradu)
4. Analitička geometrija
5. Jednačine matematičke fizike
6. Uvod u numeričku matematiku
7. Geometrijski algoritmi (Računarski fakultet, Univerzitet Union, Beograd)
8. Numeričke metode optimizacije
9. Uvod u organizaciju računara
10. Matematičko programiranje
11. Kombinatorna optimizacija (master)
12. Kombinatorna teorija grafova sa primenama (doktorske studije)
13. Algoritmi na grafovima i njihove primene (doktorske studije)
14. Spektralna teorija grafova sa primenama (doktorske studije)

Ostale profesionalne aktivnosti:

- Naučni projekti

1. Istraživač na Projektu 1646: Geometrija, obrazovanje i vizualizacija sa primenama (2002 - 2005).
2. Istraživač na DAAD Projektu: Multimedia Technology for Mathematics and Computer Science Education (2003 - 2007).
3. Istraživač na Projektu 144032D: Geometrija, obrazovanje i vizualizacija sa primenama (2006 - 2010).
4. Istraživač na Projektu 174012: Geometrija, obrazovanje i vizualizacija sa primenama (2011 -).
5. Istraživač na Projektu 174033: Teorija grafova i matematičko programiranje sa primenama u hemiji i računarstvu (2011 -).

- Istraživač A1 kategorije u tekućim projektima.

- Član redakcije Zentralblatt MATH Reviews-a od 2008.

- Član Borda urednika časopisa *Applied and Computational Mathematics* (Science Publishing Group, 548 Fashion Avenue, New York, NY 10018, USA), <http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=147> .

Naučni radovi:

1. Z. Stanić: *A game based on spectral graph theory*, Univ. Beograd Publ. Elektrotehn. Fak., Ser Mat., **16** (2005), 88-93.
2. Z. Stanić: *Geodesic polyhedra and nets*, Kragujevac, J. Math., **28** (2005), 41-55.
3. Z. Stanić: *Determination of large families and diameter of equiseparable trees*, Publ. Inst. Math. (Beograd), **79(93)** (2006), 29-36.

4. Z. Stanić, S.K. Simić: *On graphs with unicyclic star complement for 1 as the second largest eigenvalue*, In: Proceedings of the Conference Contemporary Geometry and Related Topics (N. Bokan, M. Djorić, Z. Rakić, B. Wegner, J. Wess, eds.), June 26 – July 02, 2005, Belgrade (Serbia and Montenegro), Matematički fakultet, Beograd, pp. 475-484, 2006.
5. S.K. Simić, Z. Stanić: *The polynomial reconstruction of unicyclic graphs is unique*, Linear Multilinear Algebra, **55** (2007), 35-43.
6. Z. Stanić: *On graphs whose second largest eigenvalue equals 1 – the star complement technique*, Lin. Algebra Appl., **420** (2007), 700-710.
7. Z. Stanić: *There are exactly 172 connected Q-integral graphs up to 10 vertices*, Novi Sad J. Math., **37(2)** (2007), 193-205.
8. S.K. Simić, Z. Stanić: *On the polynomial reconstruction of graphs whose vertex-deleted subgraphs have spectra bounded from below by -2*, Lin. Algebra Appl., **428** (2008), 1865-1873.
9. S.K. Simić, Z. Stanić: *Q-integral graphs with edge-degrees at most five*, Discrete Math., **308** (2008), 4625-4634.
10. Z. Stanić: *Some star complements for the second largest eigenvalue of a graph*, Ars Math. Contemp., **1** (2008), 126-136.
11. Z. Stanić: *Some results on Q-integral graphs*, Ars Combin., **90** (2009), 321-335.
12. Z. Stanić: *On nested split graphs whose second largest eigenvalue is less than 1*, Linear Algebra Appl., **430** (2009), 2200-2211.
13. S.K. Simić, Z. Stanić: *On some forests determined by their Laplacian or signless Laplacian spectrum*, Comput. Math. Appl., **58** (2009), 171-178.
14. Z. Stanić: *On determination of caterpillars with four terminal vertices by their Laplacian spectrum*, Linear Algebra Appl., **431** (2009), 2035-2048.
15. S.K. Simić, Z. Stanić: *On Q-integral (3,s)-semiregular bipartite graphs*, Appl. Anal. Discrete Math., **4** (2010), 167-174.
16. D. Cvetković, S.K. Simić, Z. Stanić: *Spectral determination of graphs whose components are paths and cycles*, Computers and Math. Appl., **59** (2010), 3849-3857.
17. Z. Stanić: *Some notes on minimal self-centered graphs*, AKCE Int. J. Graphs Comb., **7** (2010), 97-102.
18. Z. Stanić: *On regular graphs and coronas whose second largest eigenvalue does not exceed 1*, Linear Multilinear Algebra, **58** (2010), 545-554.
19. T. Bıyıkođlu, S.K. Simić, Z. Stanić: *Some notes on spectra of cographs*, Ars Combin., **100** (2011), 421-434.
20. D. Cvetković, P. Rowlinson, Z. Stanić, M.-G. Yoon: *Controllable graphs*, Bull. Cl. Sci. Math. Nat. Sci. Math., **36** (2011), 81-88.
21. D. Cvetković, P. Rowlinson, Z. Stanić, M.-G. Yoon: *Controllable graphs with least eigenvalue at least -2*, Appl. Anal. Discrete Math., **5** (2011), 165-175.
22. I. Jovanović, Z. Stanić: *Spectral distances of graphs*, Linear Algebra Appl., **436**, (2012), 1425-1435.
23. Z. Stanić: *Some graphs whose second largest eigenvalue does not exceed $\sqrt{2}$* , Linear Algebra Appl., **437** (2012), 1812-1820.
24. M. Anđelić, T. Koledin, Z. Stanić: *Nested graphs with bounded second largest (signless Laplacian) eigenvalue*, Electron. J. Linear Algebra, **24** (2012), 181-201.
25. M. Milatović, Z. Stanić: *The nested split graphs whose second largest eigenvalue is equal to 1*, Novi Sad J. Math., **42(2)** (2012), 33-42.
26. M. Anđelić, C.M. da Fonseca, T. Koledin, Z. Stanić: *Sharp spectral inequalities for connected bipartite graphs with maximal Q-index*, Ars Math. Contemp., **6** (2013), 171-185.
27. T. Koledin, Z. Stanić: *Regular bipartite graphs with three distinct non-negative eigenvalues*, Linear Algebra Appl., **438** (2013), 3336-3349.

28. T. Koledin, Z. Stanić: *Regular graphs whose second largest eigenvalue is at most 1*, Novi Sad J. Math., **43(3)** (2013), 145-153.
29. Z. Stanić: *Graphs with small spectral gap*, Electron. J. Linear Algebra, **26** (2013), 417-432.
30. T. Koledin, Z. Stanić: *Regular graphs with small second largest eigenvalue*, Appl. Anal. Discrete Math. (to appear) DOI: 10.2298/AADM130710013K.

Učešća na naučnim skupovima:

1. Workshop Vive Math (Visualization and Verbalization of Mathematics and Interdisciplinary Aspects), December 14 - 15, 2001. Niš (Yugoslavia). Predavanje: *About Applying Program Package AutoCAD in Descriptive Geometry*.
2. Workshop Contemporary Geometry and Related Topics, May 15 - 21, 2002, Belgrade (Yugoslavia).
3. 13th Yugoslav Geometrical Seminar, October 10 - 12, 2002, Kragujevac (Yugoslavia). Predavanje: *Discrete Geodesics*.
4. 14th Yugoslav Geometrical Seminar, October 3 - 5, 2003, Zrenjanin (Yugoslavia). Predavanje: *G—Polyhedra and Geodesic Surface Discretization*.
5. International Conference Mathematics in 2004 at Kragujevac, June 17 - 19, 2004, Kragujevac (Serbia and Montenegro). Predavanje: *Geodesic Nets*.
6. 3rd Summer School in Modern Mathematical Physics, August 20 - 30, 2004, Zlatibor (Serbia and Montenegro).
7. Workshop Multimedia Technology for Mathematics and Computer Science Education, September 22 - 25, 2004, Belgrade (Serbia and Montenegro). Predavanje: *A New Class of Discrete Surfaces*.
8. Conference Contemporary Geometry and Related Topics, June 26 - July 02, 2005, Belgrade (Serbia and Montenegro). Predavanje: *On Reconstruction of the Graph Polynomial*.
9. Workshop Multimedia Technology for Mathematics and Computer Science Education, November 10 - 12, 2005, Belgrade (Serbia and Montenegro).
10. Spring School Geometry and Visualization, April 10 - 13 2006, Berlin (Germany).
11. Workshop Multimedia Technology for Mathematics and Computer Science Education, September 21 - 24, 2006, Belgrade (Serbia).
12. 6th Slovenian International Conference on Graph Theory, June 24 - 30, 2007, Bled (Slovenia). Predavanje: *Q - Integral Graphs with Edge - Degree at Most Five*.
13. Workshop Geometry and Visualization (an annual meeting of the project Multimedia Technology for Mathematics and Computer Science Education), September 20 - 22, 2007, Belgrade (Serbia).
14. Gene Around The World Conference, February 29 - March 1, 2008, Tripolis, Arcadia (Greece), Poster: *On Q-integral graphs*.
15. Spring School Geometry and Visualization, April 19 - 25, 2008, Belgrade, (Serbia).

Učešća u organizaciji naučnih skupova:

1. Workshop Contemporary Geometry and Related Topics, May 15 - 21, 2002, Belgrade (Yugoslavia).
2. Workshop Multimedia Technology for Mathematics and Computer Science Education, September 22 - 25, 2004, Belgrade (Serbia and Montenegro).

3. Conference Contemporary Geometry and Related Topics, June 26 – July 02, 2005, Belgrade (Serbia and Montenegro).
4. Workshop Multimedia Technology for Mathematics and Computer Science Education, November 10 - 12, 2005, Belgrade (Serbia and Montenegro).
5. Workshop Multimedia Technology for Mathematics and Computer Science Education, September 21 - 24, 2006, Belgrade (Serbia).
6. Workshop Geometry and Visualization (an annual meeting of the project Multimedia Technology for Mathematics and Computer Science Education), September 20 - 22, 2007, Belgrade (Serbia).

Publikacije:

1. Z. Stanić, S. Vukmirović: *Zbirka zadataka iz projektivne geometrije sa primenama u računarskoj grafici*, Matematički fakultet, Beograd, 2003.

Softver:

1. Z. Stanić, N. Stefanović: ***SCL - star complement library***. Biblioteka programa pisanih u C++-u; koristi se u sprektalnoj teoriji grafova pri rekonstrukciji grafova takozvanom tehnikom zvezda komplemenata. Sadrži i module za određivanje maksimalnih klika u grafu i određivanje izomorfnih klasa datog skupa grafova. Korišćenjem ovog paketa dobijeni su rezultati publikovani u nekoliko naučnih radova.
Verzije: v. 1.0 (2005), v. 2.0, v. 2.1 (2007).
URL: <http://www.math.rs/~zstanic/scl.htm>
(<http://dmoz.org/Science/Math/Combinatorics/Software/>).