

## Contents

Монографије <i>Books</i> .....	1
Радови публиковани у међународним часописима <i>Journal papers on ISI (JCR, WoS)</i> .....	1
Краћи радови и изводи <i>Short papers</i> .....	3
Радови публиковани у часопису од националног значаја <i>Paper in national journals</i> .....	3
Радови у часописима изван ISI листе <i>Journal papers off ISI list</i> .....	4
Пленарна предавања по позиву на међународним конференцијама <i>Invited lectures/keynotes</i> .....	5
Радови изложени на међународним конференцијама публиковани у целини <i>Conference papers</i> .....	6
Конференције националног значаја - радови публиковани у целини <i>Conference papers (national)</i> .....	8
Предавања по позиву - конференције националног значаја <i>Invited papers / keynotes (national)</i> .....	10
Међународни патенти <i>Patent</i> .....	11
Одзив <i>Citations</i> .....	11

### Монографије *Books*

1. Slobodan N. Vukosavić, „Grid-Side Converters Control and Design“, Springer, New York 10013, USA, 2018, ISBN 978-3-319-73277-0, 266 pages.
2. (塞尔维亚) 斯洛博丹 N. 乌克塞维克, "电机" - 著 余龙海 等译, (Slobodan N.Vukosavic, "Elektromotori", translated by Yu Longhai) China Machine Press / Machine Industry Press, 2015., ISBN 978-7-111-48627-5
3. Slobodan N. Vukosavić, „Electrical Machines“, Springer, New York 10013, USA, 2013., ISBN 978 1-4614-0399-9, Library of Congres 2012944981, 649 pages.
4. Slobodan N. Vukosavić, „Digital Control of Electrical Drives“, Springer, New York 10013, USA, 2007., ISBN 978 0-387-25985-7, Library of Congres 2006935130, 352 pages.
5. С. Н. Вукосавић, *Дигитално управљање електричним погонима*, Београд, Србија: Академска мисао, Београд, 2003, ISBN: 86-7466-113-0 (монографија од 390 штампаних страна је доступна и у електронској форми на адреси ddc.etf.rs/lib\_scurio.pdf).
6. С. Вукосавић, *Електричне машине*, Београд, Србија: Академска мисао, 2012, Универзитет у Београду, ISBN: 978-86-7466-380-6 (уџбеник/текстбоок је доступан и у електронској форми на адреси masine.etf.rs/knjiga.pdf)
7. С. Вукосавић, Ж. Јанда, Л. Ристић, *Збирка задатака из електричне вуче*, Универзитет у Београду, Завод за графичку технику Технолошкометалуршког факултета у Београду, Универзитетски уџбеници (67), 1997, ISBN: 86-81019-67-8, (помоћни уџбеник, 240 штампаних страна).

### Радови публиковани у међународним часописима *Journal papers on ISI (JCR, WoS)*

1. M. R. Stojic, S. N. Vukosavic, "Design of microprocessor-based system for positioning servomechanism with induction motor", *IEEE Trans. Ind. Electron.*, vol. 38, no. 5, pp. 369-378, Oct. 1991.
2. S. Vukosavic, V. R. Stefanovic, "SRM Inverter Topologies: A Comparative evaluation", *IEEE Trans. Ind. Appl.*, vol. 27, no. 6, pp. 1034-1047, Nov./Dec. 1991.
3. S. N. Vukosavic, M. R. Stojic, "On-Line Tuning of the Rotor Time Constant for Vector-Controlled Induction Motor in Position Control Applications", *IEEE Trans. Ind. Electron.*, vol. 40, no.1, pp. 130-138, Feb. 1993.
4. S. N. Vukosavic, M. R. Stojic, "Reduction of Parasitic Spectral Components of Digital Space Vector Modulation by Real-Time Numerical Methods", *IEEE Trans. Power Electron.* vol. 10, pp. 94-102, Feb. 1995.
5. S. N. Vukosavic, M. R. Stojic, "Suppression of Torsional Oscillations in a High-Performance Speed Servo Drive", *IEEE Trans. Ind. Electron.*, vol. 45, no. 1, pp. 108-117, Feb. 1998.
6. E. Levi, S. N. Vukosavic, "Identification of the Magnetising Curve during Commissioning of a Rotor Flux Oriented Induction Machine", *Proc. IEE Elect. Power Applicat.*, vol. 146, no. 6, pp. 685-693, Nov. 1999.
7. E. Levi, M. Sokola, S. N. Vukosavic, "A Method for Magnetizing Curve Identification in Rotor Flux Oriented Induction Machines", *IEEE Trans. Energy Convers.*, vol. 15, no. 2, pp. 157-162, June 2000.
8. V. Vujcic, S. N. Vukosavic, "A simple nonlinear model of the switched reluctance motor", *IEEE Trans. Energy Convers.*, vol. 15, no. 4, pp. 395-400, Dec. 2000.
9. S. N. Vukosavic, A. M. Stankovic, "Sensorless induction motor drive with a single DC-link current sensor and instantaneous active and reactive power feedback", *IEEE Trans. Ind. Electron.*, vol. 48, no. 1, pp. 195-204, Feb. 2001.

10. V. Veran, S. N. Vukosavic, "Sensorless MRAS-based induction motor control with parallel speed and stator resistance estimation", *Eur. Trans. Electr. Power*, vol. 12, no. 2, pp. 135-139, 2002.
11. E. Levi, M. Jones, S. N. Vukosavic, "Even-phase multi-motor vector controlled drive with single inverter supply and series connection of stator windings", *Proc. IEE Electric Power Applicat.*, vol. 150, no. 5, pp. 580-590, 2003.
12. V. Vasic, S. N. Vukosavic, E. Levi, "A stator resistance estimation scheme for speed sensorless rotor flux oriented induction motor drives", *IEEE Trans. Energy Convers.*, vol. 18, no. 4, pp. 476-483, 2003.
13. S. N. Vukosavic, E. Levi, "A method for transient torque response improvement in optimum efficiency induction motor drives", *IEEE Trans. Energy Convers.*, vol. 18, no. 4, pp. 484-493, 2003.
14. S. N. Vukosavic, E. Levi, "Robust DSP-based efficiency optimisation of a variable speed induction motor drives", *IEEE Trans. Ind. Electron.*, vol. 50, no. 3, pp. 560-570, 2003.
15. E. Levi, M. Jones, S. N. Vukosavic, H. A. Toliyat, "Operating principles of a novel multi-phase multi-motor vector controlled drive", *IEEE Trans. Energy Convers.*, vol. 19, no. 3, pp. 508-517, 2004.
16. E. Levi, M. Jones, S. N. Vukosavic, H. A. Toliyat, "A novel concept of a multiphase, multi-motor vector controlled drive system supplied from a single voltage source inverter", *IEEE Trans. Power Electron.*, vol. 19, no. 2, pp. 320-335, 2004.
17. S. N. Vukosavic, M. Jones, E. Levi, J. Varga, "Rotor flux oriented control of a symmetrical six-phase induction machine", *Electric Power Syst. Research*, vol. 75, no. 2-3, pp. 142-152, 2005.
18. Dj. Stojic, S. Vukosavic, "Induction motor drive based on the stator flux vector control" *Electric. Eng. (Archiv fur Elektrotechnik)*, vol. 87, no. 1, pp. 23-32, Jan. 2005.
19. Dj. M. Stojic, S. N. Vukosavic, "A New Induction Motor Drive Based on the Flux Vector Acceleration Method", *IEEE Trans. Energy Convers.*, vol. 20, no. 1, pp. 173-180, Mar. 2005.
20. M. Jones, S. N. Vukosavic, E. Levi, A. Iqbal, "A six-phase series-connected two-motor drive with decoupled dynamic control", *IEEE Trans. Ind. Appl.*, vol. 41, pp. 1056-1066, July/Aug. 2005.
21. E. Levi, S. N. Vukosavic, M. Jones, "Vector control schemes for series-connected six-phase two-motor drive systems", *IEE Proceedings on Electric Power Applicat.*, vol. 152, no. 2, pp. 226-238, 2005.
22. E. Levi, M. Jones, S. N. Vukosavic, "A series-connected two-motor six-phase drive with induction and permanent magnet machines", *IEEE Trans. Energy Convers.*, vol. 21, no. 1, pp. 121 - 129, Mar. 2006.
23. V. Vujčić, S. N. Vukosavić, M. B. Jovanović, "Asymmetrical Switched Reluctance Motor for a Wide Constant Power Range", *IEEE Trans. Energy Convers.*, vol. 21, no. 1, pp. 44-51, Mar. 2006.
24. E. Levi, M. Jones, A. Iqbal, S. N. Vukosavic, H. A. Toliyat, "An induction machine / Syn-Rel two motor five-phase series-connected drive", *IEEE Trans. Energy Convers.*, vol. 22, no. 2, pp. 281-289, June 2007.
25. E. Levi, M. Jones, S. N. Vukosavic, A. Iqbal, H. A. Toliyat, "Modelling, control and experimental investigation of a five-phase series-connected two-motor drive with single inverter supply", *IEEE Trans. Ind. Electron.*, vol. 54, no. 3, pp. 1504-1516, 2007.
26. D. P. Marčetić, S. N. Vukosavić, "Speed - Sensorless AC Drives With the Rotor Constant Parameter Update", *IEEE Trans. Ind. Electron.*, vol. 54, no. 5, pp. 2618-2625, Oct. 2007.
27. Z. Grbo, S. N. Vukosavic, "Cost optimized switched reluctance motor drive with bipolar currents", *Elect. Eng. (Archiv fur Elektrotechnik)*, vol. 89, pp. 183-191, 2007.
28. D. Stojic, S. Vukosavic, "Sensorless Induction Motor Drive Based on Flux Acceleration Torque Control", *IEEE Trans. Ind. Electron.*, vol. 54, no.3, pp. 1796-1800, 2007.
29. E. Levi, M. Jones, S. N. Vukosavic, H.A. Toliyat, "Steady-State Modeling of Series-Connected Five-Phase and Six-Phase Two-Motor Drives", *IEEE Trans. Ind. Electron.*, vol. 44, no. 5, pp. 1559-1568, Sept./Oct. 2008.
30. M. Jones, S. N. Vukosavic, D. Dujic, E. Levi, P. Wright, "Five-leg inverter PWM technique for reduced switch count two-motor constant power applications," *IET Electr. Power Applicat.*, vol. 2, no. 5, pp. 275-287, 2008.
31. M. Jones, S. N. Vukosavic, Levi, E., "Parallel-Connected Multiphase Multidrive Systems With Single Inverter Supply", *IEEE Trans. Ind. Electron.*, vol., 56, no. 6, pp. 2047-2057, 2009.
32. M. Jones, S. N. Vukosavic, D. Dujic, E. Levi, "A Synchronous Current Control Scheme for Multiphase Induction Motor Drives", *IEEE Trans. Energy Convers.*, vol. 24, no. 4, pp. 860-868, 2009.
33. D. Dujic, M. Jones, S. N. Vukosavic, E. Levi, "A General PWM Method for a 2n+1-Leg Inverter Supplying Three-Phase Machines", *IEEE Trans. Ind. Electron.*, vol. 56, no. 10, pp. 4107-4118, 2009.
34. V. V. Vasic, D. P. Marcetic, S. N. Vukosavic, D. V. Oros, "Prediction of local instabilities in open-loop induction motor drives", *COMPEL (The Int. J. for Computation and Math. in Elect. and Electron. Eng.)*, vol. 29 no. 3, pp. 865-884, 2010.
35. P. Matic, S. N. Vukosavic, "Voltage Angle Direct Torque Control of Induction Machine in Field Weakening Regime", *IET Electric Power Applications*, vol. 5, no. 5, pp. 404-414, 2011.
36. P. Matic, S. N. Vukosavic, "Speed Regulated Continuous DTC Induction Motor Drive in Field Weakening", *Advances in Elect. and Comput. Eng.*, pp. 97-102, Feb. 2011.
37. P. Matic, S. N. Vukosavic, "Direct Torque Control of Induction Motor in Field Weakening Without Outer Flux Trajectory Reference", *Int. Rev. of Elect. Eng.*, vol. 6, no.3, p. 1, June 2011.
38. M. V. Terzic, D. S. Mihic, S. N. Vukosavic, "Stator Design and Air Gap Optimization of High Speed Drag-Cup Induction Motor using FEM", *Advances in Elect. and Comput. Eng.*, vol. 13, no. 3, pp. 93-100, 2013.
39. M. Terzic, D. Mihić, S. Vukosavić, "Design of High-Speed, Low-Inertia Induction Machines With Drag-Cup Rotor", *IEEE Trans. Energy Convers.*, vol. 29, no. 1, pp. 169-177, Mar. 2014.
40. N. Z. Popov, S. N. Vukosavic, E. Levi, "Motor Temperature Monitoring Based on Impedance Estimation at PWM Frequencies", *IEEE Trans. Energy Convers.*, vol. 29, pp. 215-223, Mar. 2014.

41. Slobodan N. Vukosavic, Ljiljana S. Peric, "High Precision Sensing of DC Bias in AC Grids," *IEEE Transactions of Power Delivery*, vol. 30, no. 3, pp. 1179-1186, June 2015.
42. A. A. Bobtsov, A. A. Pyrkin, R. Ortega, S. N. Vukosavic, A. M. Stankovic, E. V. Panteley, "A robust globally convergent position observer for the permanent magnet synchronous motor", *Automatica - A Journal of IFAC*, vol. 61, Nov. 2015, pp. 47-54
43. Slobodan N. Vukosavic, Ljiljana S. Peric, Stanimir S. Susic, "A Novel Power Converter Topology for Electrostatic Precipitator," *IEEE Transactions on Power Electronics*, vol. 31, no. 1, pp. 152-164, Jan. 2016.
44. Slobodan N. Vukosavic, Ljiljana S. Peric, Emil Levi, "AC Current Controller with Error-Free Feedback Acquisition System", *IEEE Transactions on Energy Conversion*, vol. 31, no. 1, pp. 381-391, Jan. 2016.
45. Srdjan Srdic, Milos Nedeljkovic, Slobodan Vukosavic, Zoran Radakovic, "Fast and Robust Predictive Current Controller for Flicker Reduction in DC Arc Furnaces", *IEEE Trans. Ind. Electron.*, vol. 63, no. 7, July 2016, pp. 4628-4640
46. Slobodan N. Vukosavic, Ljiljana S. Peric, "Modified Digital Current Controller with Reduced Impact of Transport Delays", *IET Electric Power Applications*, vol. 10, no. 6, July 2016, pp. 517-525
47. Slobodan N. Vukosavic, Ljiljana S. Peric, Emil Levi, "A Three-phase Digital Current Controller with Improved Performance Indices", *IEEE Transactions on Energy Conversion*, vol. 32, no. 1, March 2017, pp. 184-193
48. Nikola Popov and Slobodan N. Vukosavic, "Estimator of the Rotor Temperature of Induction Machines Based on Terminal Voltages and Currents", *IEEE Transactions on Energy Conversion*, vol. 32, no. 1, March 2017, pp. 155-163
49. Mladen Terzic, Dragan Mihic, Slobodan Vukosavic, "Impact of Rotor Material on the Optimal Geometry of High-Speed Drag-Cup Induction Motor", *IEEE Transactions on Energy Conversion*, vol. 31, no. 2, June 2016, pp. 455-465
50. Slobodan N. Vukosavic, Ljiljana S. Peric, "High Precision Active Suppression of DC Bias in AC Grids by Grid Connected Power Converters", *IEEE Trans. Ind. Electron.*, vol. 64, no. 1, Jan. 2017, pp. 857-865
51. Dragan S. Mihic, Mladen V. Terzic, Slobodan N. Vukosavic, "A New Nonlinear Analytical Model of the SRM With Included Multiphase Coupling", *IEEE Transactions on Energy Conversion*, vol. 32, no. 4, pp. 1322 - 1334, Dec. 2017.
52. Slobodan N. Vukosavic, Ljiljana S. Peric, Emil Levi, "Digital Current Controller with Error-Free Feedback Acquisition and Active Resistance", *IEEE Trans. Ind. Electron.*, vol. 65, no. 3, pp. 1980-1990, March 2018.
53. Đorđe Lekić, Slobodan Vukosavić, „Split ratio optimization of high torque density PM BLDC machines considering copper loss density limitation and stator slot leakage,” *International Journal of Electrical Power and Energy Systems*, pp. 231-239, vol. 100, Sept. 2018.
54. Dj. Lekic, S. Vukosavić, "Computationally Efficient Steady-State Finite Element Simulation of Multiphase PM AC Machines," *IET Electric Power Applications*, vol. 14, no. 7, pp. 1228-1237, March 2020.
55. Ivan Petrić, Slobodan N. Vukosavić, "High-performance speed estimation of induction machines based on adaptive filtering," *IET Electric Power Applications*, vol. 14, no. 4, pp. 695-704, April 2020.
56. Dragan S Mihic, Mladen V Terzic, Bogdan M Brkovic, Slobodan N Vukosavic, "A novel modular power converter for SRM drive," *Electrical Engineering*, vol. 102, no. 2, pp. 921-937, June 2020.
57. B. Yi, S. N. Vukosavic, R. Ortega, A. M. Stankovic, W. Zhang, "A New Signal Injection-based Method for Estimation of Position in Salient Permanent Magnet Synchronous Motors," *IET Power Electronics*, vol. 13, no. 9, pp. 1865-1874, July 2020.
58. I. Z. Petric, S. N. Vukosavic, M. Degano and A. Galassini, "A Digital Internal Model Current Controller for Salient Machines," in *IEEE Transactions on Industrial Electronics*, vol. 68, no. 6, pp. 4703-4717, June 2021, doi: 10.1109/TIE.2020.2988234.
59. Romeo Ortega, Bowen Yi, Slobodan Vukosavić, Kwanghee Nam, Jongwon Choi, "A globally exponentially stable position observer for interior permanent magnet synchronous motors," *Automatica*, 125(5), March 2021, 109424
60. Slobodan N. Vukosavic and Aleksandar M. Stankovic, "Non-Intrusive Estimation of Single-Port Thevenin Equivalents in AC Grids," in *IEEE Transactions on Power Delivery*, vol. 36, no. 5, pp. 2794-2803, Oct. 2021, doi: 10.1109/TPWRD.2020.3026976.

#### Краћи радови и изводи *Short papers*

1. Vasic, V.; Vukosavic, S., *PES News, IEEE Power Eng. Rev.*, vol. 21, no. 11, pp. 16-17, Nov. 2001.

#### Радови публиковани у часопису од националног значаја *Paper in national journals*

1. S. Vukosavić, M. Stojić, "Digitalni pozicioni servomehanizam sa asinhronim motorom", *Automatika*, vol. 31., pp. 187-192, 1990.
2. M. Matijević, M. Stojić, S. Vukosavić, M. Stefanović, "Potiskivanje torzionih oscilacija korišćenjem IMPACT upravljačke strukture", *Theoretical and Applied Mechanics*, vol. 33, no. 3, pp. 181-198, 2006.
3. M. S. Matijević, M. R. Stojić, S. Vukosavić, "Strukturna sinteza sistema sa periodičnim poremećajima", *Tehnika - Elektrotehnika*, vol. 55, no. 4, pp. 1-6, 2006.

4. I. J. Stevanović, A. Nikolić, I. Cvetković, S. N. Vukosavić, "Prednosti intermitentnog napajanja elektrostatičkog filtra u odnosu na kontinualno", *Elektroprivreda*, vol. 60, no. 4, pp. 59-67, 2007.
5. Ž. Despotović, S. Vukosavić, D. Arnautović, I. Stevanović, "Visokofrekventno napajanje i njegov uticaj na kvalitet rada elektrostatičkih izdvažača", *Elektroprivreda*, vol. 61, no. 4, pp. 132-143, 2008.
6. Ž. Despotović, S. Vukosavić, D. Arnautović, I. Stevanović, "Visokofrekventno napajanje i njegov uticaj na kvalitet rada elektrostatičkih izdvažača", *Elektroprivreda*, vol.4, pp. 132-143, Dec. 2008.
7. P. Matić, M. Božić, S. N. Vukosavić, "Direktno upravljanje vektorom Teslinog obrtnog polja", *Akademija nauka i umjetnosti Republike Srpske, Naučni skupovi, knjiga H*, Odjeljenje prirodno-matematičkih i tehničkih nauka, knjiga 6, „Ideje Nikole Tesle“
8. S. Vukosavić, Ž. Despotović, N. Popov, "Savremene metode elektrostatičkog izdvajanja čestica iz dimnih gasova", *Energetske Tehnologije*, vol.7, no. 4, pp. 31-40, Mar. 2010.
9. Ž. Despotović, S. Vukosavić, "Razvoj prototipa visokonaponskog visokofrekventnog transformatora za napajanje elektrostatičkih izdvažača", *Elektroprivreda*, vol. 63, no. 2, pp. 107-116, Sept. 2010.
10. S. Vukosavić, N. Popov, Ž. Despotovic, "Power Electronics Solution to Dust Emissions from Thermal Power Plants", *Serbian Journal Electrical Engineering*, vol. 7, no. 2, pp. 231-252, Nov. 2010.
11. S. Vukosavić, Ž. Despotović, N. Popov, O. Đorđević, M. Bakić, D. Nešić, M. Tasić, G. Stanković, S. Milosavljević, Lj. Jovanović, D. Kisić, "Rezultati eksploatacionih ispitivanja visokofrekventnog sistema AR70/1000 za napajanje elektrofiltara", *Elektroprivreda*, vol. 64, no. 1, pp. 5-18, 2011.
12. S. Vukosavić, Ž. Despotović, "Iskustva u eksploataciji hibridnog napajanja elektrostatičkih izdvažača na TE Morava", *Elektroprivreda*, vol. 64, no. 3, pp. 241-249, Sept./Okt. 2011.
13. S. Vukosavić, Ž. Despotović, "Retrofitno napajanje elektrostatičkih izdvažača čestica iz dimnih gasova na termoelektranama", *Tehnika-Elektrotehnika*, vol. 64, no. 4, pp. 597-605, 2011.
14. P. Matić, A. Rakić, S. N. Vukosavić, "Space Vector Representation of Induction Motor Model in Field Weakening Regime", *Serbian Journal of Electrical Engineering*, vol. 9, no. 1, Feb. 2012.
15. S. Vukosavić, Ž. Despotović, N. Popov, N. Lepojević, "Visokofrekventna distribuirana multirezonantna topologija energetskog pretvarača za napajanje elektrostatičkih filtara", *Časopis - Energija, Ekonomija, Ekologija*, vol. 3-4, pp. 116-123, Mart 2014
16. Aleksandar Milić, Slobodan Vukosavić, „Analysis of the magnetomotive force in the multiphase machines within integrated battery chargers for the electric vehicles,” *Tehnika 73* (3), 391-398, 2018.

Радови у часописима изван ISI листе *Journal papers off ISI list*

1. V. Vuckovic, S. Vukosavic, "Control algorithm for the inverter-fed induction motor drive with DC current feedback loop based on principles of the vector control", *Electrical Machines and Power Systems*, vol. 20, no. 5, pp. 405-424, Sept./Oct. 1992.
2. M. Stojic, S. N. Vukosavic, "A Generalization of Kharitonov's four-polynomial concept for robust relative-stability problems", *Facta Universitatis (Nis)*, ser. Elec. and Energ., vol. 6, no. 1, pp. 1-12, 1993.
3. M. R. Stojic, S. N. Vukosavic, "Design of the observer-based speed controller applied in servo drives with limited resolution of position sensor", *Facta Universitatis (NIS)*, ser. Elec. and Energ., vol. 1, pp. 11-27, 1995.
4. M. Stojic, S. Vukosavic, "Sufficient Conditions for the Robust Relative Stability of Linear Continuous Systems," *Avtomatika i telemehanika*, vol. 11, pp. 84-91., Nov. 1996.
5. E. Levi, S. N. Vukosavić, M. Sokola, "Experimental methods for magnetising curve identification during commissioning of vector controlled induction machines", *Electronics*, vol. 4, no. 1, pp. 39-50, Nov. 2000.
6. Ž. Grbo, S. Vukosavić, "A converter for switched reluctance motor", *Electron.*, vol.4, no.2, pp. 21-24, Dec. 2000.
7. V. Vasić, S. Vukosavić, "Sensorless induction motor drive with parallel speed and stator resistance estimation", *Electronics*, vol. 4, no. 2, pp. 64-70, Dec. 2000.
8. E. Levi, S. N. Vukosavic, M. Sokola, "Experimental methods for magnetising curve identification during commissioning of vector controlled induction machines", *Electronics*, vol. 4, no. 1, pp. 39-50, Nov. 2000.
9. M. R. Stojic, S. N. Vukosavic, Lj. Draganovic, "Process control structure and optimal tuning of a digital PID stand-alone controller", *Facta Universitatis (NIS)*, ser. Elec. and Energ., vol. 1, pp. 1-11, 2000.
10. P. Matić, B. Blanuša, S. N. Vukosavić, "A Novel Direct Torque Control Approach in Induction Machine Drive", *Electronics*, vol. 6, no. 1, pp. 18-21, Dec. 2002.
11. P. Matić, B. Blanuša, S. N. Vukosavić, "Vektra – A Test Bench for Student Exercises and Development of Digital Control Algorithms for AC Drive Control", *Electronics*, vol. 6, no. 2, pp. 26-30, Dec. 2002.
12. S. Vukosavic, E. Levi, V. Vasic, "Loss function on-line identification for the induction motor drives", *Electronics*, vol. 7, no. 2, pp. 21-31, 2003.
13. E. Levi, A. Iqbal, S. N. Vukosavic, V. Vasic, "Vector-controlled multi-phase multi-motor drive systems with a single inverter supply", *Electronics*, vol. 7, no. 2, pp. 9-20, 2003.
14. S. Vukosavić, "Present Trends in Controlled Electrical Drives", *Electronics*, vol. 2, no. 1, pp. 3-13, Sept. 1998.
15. V. Vasic, S. Vukosavic, "Robust MRAS-based algorithm for stator resistance and rotor speed identification", *IEEE Power Eng. Rev.*, vol. 21, pp. 39-41, Nov 2001.
16. E. Levi, M. Jones, S. N. Vukosavic, H. A. Toliyat, "A five-phase two-machine vector controlled induction motor drive supplied from a single inverter", *European Power Electron. and Drives J.*, vol. 14, no. 3, pp. 38-48, 2004.

17. Z. Grbo, S. Vukosavic, E. Levi, "A novel power inverter for switched reluctance motor drives", *Facta Universitatis (Nis)*, ser. Elec. and Energ., vol. 18, no. 3, pp. 453-465, 2005.
18. P. Matić, D. Raca, B. Blanuša, S. N. Vukosavić, "Direct Torque Control of Induction Machines Based on Feedback Structure", *Electronics*, vol.10, no.1. pp. 41-48, Oct. 2006.
19. S. N. Vukosavic, "Contemporary motion control systems", invited paper, *Electronics*, vol. 10, no. 2, pp. 15-22, December 2006.
20. B. Blanus, S. N. Vukosavic, "Efficiency Optimized Control for Closed-cycle Operations of High Performance Induction Motor Drive", *Journal of Electrical Engineering.*, vol. 8, no. 3, pp. 81-88, 2008.
21. P. Matić, S. N. Vukosavić, D. Raca, "Feed – Forward Based Direct Torque and Flux Control of Induction Motor in Field Weakening Regime", *Electronics*, vol. 14, no. 2, pp. 65-70, Dec. 2010.
22. S. N. Vukosavic, "Detection and suppression of parasitic dc voltages in 400V ac grids", invited paper, *Facta Universitatis-series Electronics and Energetics.*, vol. 28, no. 4, pp. 527-540, 2015.
23. Petar R. Matic, Aleksandar Z. Rakic, Darko P. Marcetic, Slobodan N. Vukosavic, "Improved Torque Control of High Speed Shaft-Sensorless Induction Motor Drive", *AUTOMATIKA, (KoREMA)*, vol. 56, no. 4, pp. 443-453, Feb. 2016.
24. Ljiljana S. Peric, S. N. Vukosavic, "High performance digital current control in three phase electrical drives", *Facta Universitatis-series Electronics and Energetics*, vol. 29, no. 4, pp. 653-674, 2016.
25. Luka Lopin , Slobodan Vukosavić, Nikola Lepojević, "Control Algorithm for Non-isolated Supercapacitor Based Kinetic Energy Recovery System", *Journal of Electrical Engineering* 6 (2018) 177-185 doi: 10.17265/2328-2223/2018.03.006
26. A. Milic, S. N. Vukosavic, "Designing method for integrated battery chargers in electrical vehicles," *Facta Universitatis, Series: Electronics and Energetics* 32 (4), 2019, 513-528
27. Đorđe M Lekić, Slobodan N Vukosavić, "Finite Element Design of Rotor Permanent Magnet Flux Switching Machine with Arbitrary Slot, Pole and Phase Combinations," *Electronics*, vol. 22, no. 2, pp. 93-104, Jan. 2019.

[Пленарна предавања по позиву на међународним конференцијама](#) *Invited lectures/keynotes*

1. S. Vukosavic, Lj. Peric, "Electric energy saving possibilities by increasing of electric drives efficiency", *11th International Symposium on Power Electronics – Ee 2001*, Novi Sad, Yugoslavia, 31. Oct. -2. Nov. 2001., invited paper P.3-3
2. E. Levi, A. Iqbal, S. Vukosavić, V. Vasić, "Vector-controlled multi-phase multi-motor drive systems with a single inverter supply" , *12th International Symposium on Power Electronics – Ee 2003*, Novi Sad, Serbia & Montenegro, 5. - 7. November, 2003., invited paper IP.2-1
3. S. Vukosavić, E. Levi, V. Vasić, "Loss function on-line identification for the induction motor drives" , *12th International Symposium on Power Electronics – Ee 2003*, Novi Sad, Serbia & Montenegro, 5. - 7. November, 2003., invited paper IP.2-2
4. S. Vukosavić, "Recent progress in motion control systems and its impact on power electronics", *13th International Symposium on Power Electronics – Ee 2005*, Novi Sad, Serbia & Montenegro, 2. - 4. November, 2005., invited paper IP.3-1
5. S. Vukosavić, "Contemporary motion control systems", *VI Symposium on Industrial Electronics INDEL 2006*, Banja Luka, 10.-11. November 2006., invited paper, pp. 128-135
6. S. Vukosavić, I. Cvetković, I. Stevanović, D. Arnautović, "High frequency power supply for electrostatic precipitators", *14th International Symposium on Power Electronics – Ee 2007*, Novi Sad, Serbia, November 7.- 9., 2007., invited paper IP.1-1
7. S. Vukosavić, "Current Trends in Power Electronic Devices in Ecological Equipment", *15th International Symposium on Power Electronics – Ee 2009*, Novi Sad, Serbia, 28.-30. October, 2009., invited paper IP.2-3
8. S. Vukosavić, "Designing energy conversion systems for the next decade", *16th International Symposium on Power Electronics – Ee 2011*, Novi Sad, Serbia, 26.-28. October, 2011. invited paper IP.2-2
9. S. Vukosavić, "Future Energy Conversion systems", *IX Symposium on Industrial Electronics INDEL 2012*, Banja Luka, 1.-2. November 2012., invited paper, pp. 72-75
10. S. Vukosavić, "High Voltage DC-DC Power Converters", *18th International Symposium on Power Electronics – Ee 2015*, Novi Sad, Serbia, 28.-30. October, 2015. invited paper IP.4-1
11. S. N. Vukosavic, (keynote address) "Paradigm shift in electric power industry and its impact on power conversion devices and controls", *The 10<sup>th</sup> Mediterranean Conference on Power Generation, Transmission MedPower 2016, Distribution and Energy Conversion*, 6-9. September 2016.
12. S. N. Vukosavić, (keynote address) "Integration of renewable sources in ac grids", *21st International Symposium on Power Electronics Ee2021*, Novi Sad, Serbia, October 27th - 30th, 2021.

1. S. Vukosavic, P. Miljanic, "Instantaneous feedback in voltage source inverters, a comparative study between nonlinear and linear approach", in *Conf. Rec. 3rd IEEE Conf. Power Electron. and Elect. Drives*, London, 1988, pp. 134-137.
2. V. Vuckovic, S. Vukosavic, "Solution of the problem of stability of synchronous reluctance machines operating at low speeds using feedforward compensation of the internal angle", in *Proc. Int. Conf. on Elect. Mach.*, vol 2. Piza, Italy, 1988, pp. 587-594.
3. E. Levi, V. Vuckovic, S. Vukosavic, "Study of main flux saturation effect in field-oriented induction motor drives", in *IEEE Ind. Electron. Soc. Ann. Meeting*, Philadelphia, PA, 1989, pp. 219-224.
4. E. Levi, S. Vukosavic, V. Vuckovic, "Saturation compensation schemes for vector controlled induction motor drives", in *IEEE Power Electron. Specialists Conf.*, San Antonio, TX, 1990, pp. 591-598.
5. S. Vukosavic, E. Levi, V. Vuckovic, "Identification of induction machine rotor time constant in the field-weakening region", in *European Desalination Soc. Conf.*, Capri, Italy 1990, pp. 109-114.
6. S. Vukosavic, Lj. Peric, E. Levi, V. Vuckovic, "Reduction of the output impedance of PWM inverters in Uninterruptible Power Supplies", in *Power Electron. Specialists Conf.*, 1990, pp. 757-762.
7. V. Vuckovic, S. Vukosavic, "Control algorithms for the inverter-fed induction motor drive with DC-link current feedback loop based on the principles of vector control", in *Int. Conf. Elect. Mach.*, Boston, 1990, pp. 1261-1266.
8. S. Vukosavic, Lj. Peric, E. Levi, V. Vuckovic, "Sensorless operation of a switched reluctance motor with constant dwell", in *IEEE Power Electron. Specialists Conf.*, San Antonio, TX, 1990, pp. 451-454.
9. Lj. Peric, V. Vuckovic, S. Vukosavic, "Stabilization of the switched reluctance motor operating without position sensor", in *European Desalination Soc. Conf.*, Como, Italy, 1990, pp. 215-220.
10. S. Vukosavic, V. Vuckovic, E. Levi, "On the possibilities to detect field orientation and amplitude in AC machines using saturation phenomena", in *6th Int. Power Electron. and Motion Control Conf.*, Budapest, Hungary, 1990, pp. 552-555.
11. M. Stojic, S. Vukosavic, "Control algorithm for on-line efficiency optimization of the vector controlled induction motor drive", in *Int. Power Electron. and Motion Control Conf.*, Budapest, Hungary, 1990, pp. 556-559.
12. S. Vukosavic, Lj. Peric, V. Bozovic, "PWM DC/DC Converters with Output Filter State Feedback", in *Int. Power Electron. and Motion Control Conf.*, Budapest, Hungary, 1990, pp. 79-82.
13. S. Vukosavic, V. R. Stefanovic, "SRM Inverter Topologies, A Comparative evaluation", in *IEEE Ind. Applicat. Soc. Annu. Meeting*, 1990, pp. 946-958.
14. V. Vucković, M. Stojić, S. Vukosavić, "Tesla's Induction Motor and Modern Electrical Drives", presented at the 4th Int. Symp. "Nikola Tesla", Belgrade, Sept. 23-25, 1991.
15. V. Vuckovic, S. Vukosavic, "A Low Cost Variable Speed Induction Motor Drive with Improved Static and Dynamic Properties", presented at the European Power Electron. Conf., Firenze, 1991.
16. V. R. Stefanovic, S. N. Vukosavic, "Space-vector PWM voltage control with optimized switching strategy", in *IEEE Ind. Applicat. Soc. Annu. Meeting*, 1992, pp. 1025-1033.
17. Z. Janda, M. Jankovic, J. Bebic, S. Vukosavic, V. Vuckovic "The Realization of a Novel Speed-Sensorless Induction Motor Drive", in *Ind. Electron. Soc. Conf.*, Bologna, Italy, pp. 1621 - 1626.
18. L. Matic, S. Milic, V. Vuckovic, S. Vukosavic, "Efficiency optimization of induction motor drives with mechanism against speed dips on sudden load changes", presented at the 7th Int. Power Electron. and Motion Control Conf., 1996, Budapest, Hungary, Sept. 1996.
19. F. Talpone, M. Salano, S. Vukosavic, L. Peric, "On-line resolution switching of R/D converter", presented at the ANAE Conf. Variable Speed Drives, Bresanone, Italy, 1996.
20. V. Vasić, R. Jevremović, M. Zubić, S. Vukosavić, V. Vučković, "Analiza oscilatornog nacina rada asinhronog motora", in *Proc. 5th Int. Conf. TESLA III Millenium*, Belgrade, Oct. 15-18, 1996, vol. 2, pp. 89-96.
21. M. Božić, R. Jevremović, S. Vukosavić, "Realizacija laboratorijskog prototipa za vektorsko upravljanje asinhronim motorom", in *Proc. 5th Int. Conf. TESLA III Millenium*, Belgrade, Oct. 15-18, 1996, vol. 1, pp. 127-134.
22. A. Statkić, N. Rasić, B. Jeftenić, S. Vukosavić, "Uticaj iznadmodulacionog režima PWM invertora na vektorsko upravljanje asinhronog motora", in *Proc. 5th Int. Conf. TESLA III Millenium*, Belgrade, Oct. 15-18, 1996, vol. 1, pp. 113-120.
23. M. Stojić, M. Naumović, S. Vukosavić, "Cross-coupled speed - controlled drives with Tesla's induction motor", in *Proc. 5th Int. Conf. TESLA III Millenium*, Belgrade, Oct. 15-18, 1996, vol. 2, pp. 51-64.
24. M. Salano, F. Talpone, S. Vukosavic, "Analisi del problema dell' accoppiamento elastico in applicazioni di servo motori ad alte prestazioni e implementazione di un filtro di notch", presented at the ANAE Conf. Variable Speed Drives, Bresanone, Italy, Mar. 10-12, 1997.
25. S. N. Vukosavic, Lj. S. Peric, V. Vuckovic, "Single Sensor Three Phase Inverters with Reactive Power Feedback", in *8th Int. Power Electron. and Motion Control Conf.*, Prague, Sept. 1998, pp. 2.224-2.228.
26. D. Marcetic, S. N. Vukosavic, "Rotor Parameter Identification in Field-Oriented Induction Machine Control Based on Electrical Torque Estimation", in *8th Int. Power Electron. and Motion Control Conf.*, Prague, Sept. 1998, pp. 4.171-4.176.

27. V. V. Vasić, S. N. Vukosavić, V. S. Vučković, M. Zubić, "Sustained speed oscillations in induction motor drives", in *Proc. Int. Univ. Power Eng. Conf.*, Napier Univ. Edinburgh, Scotland, Sept. 8-10, 1998, vol. 2, pp. 779-782.
28. Z. A. Hadzimurtezic, S. N. Vukosavic, "Design of microprocessor-based speed servomechanism with AC motor and electromagnetic resolver", presented at the Advanced Digital Control Solutions Conf., Krim, Russia, 2000.
29. A. Lange, R. Poggio, M. Salano, S. N. Vukosavic, "Tempi di campionamento e risoluzione dei trasduttori per applicazioni ad accoppiamento diretto", in *ANIPLA Annu. Meeting*, Milano, Italy, Mar. 27-28, 2003.
30. P. Matic, B. Blanusa, S. N. Vukosavic, "A Novel Direct Torque and Flux Control Algorithm for the Induction Motor Drive", in *IEEE Int. Elect. Mach. and Drives Conf.*, Madison, USA, June 1-4, 2003., pp. 965-970.
31. E. Levi, M. Jones, S. N. Vukosavic, H. A. Toliyat, "A five-phase two-machine vector controlled induction motor drive supplied from a single inverter", presented at 10th European Conf. Power Electron. and Applicat., Toulouse, France, 2003, CD-ROM Paper 0001.
32. M. Jones, E. Levi, S. N. Vukosavic, H. A. Toliyat, "Independent vector control of a seven-phase three-motor drive system supplied from a single voltage source inverter", in *IEEE Power Elec. Spec. Conf.*, Acapulco, Mexico, 2003, pp. 1865-1870.
33. A. Iqbal, S. N. Vukosavic, E. Levi, "Vector control of a five-phase induction motor drive", in *38th Int. Univ. Power Eng. Conf.*, Thessaloniki, Greece, 2003, CD-ROM Paper EMD II, pp. 57-60.
34. E. Levi, A. Iqbal, S. N. Vukosavic, H. A. Toliyat, "Modelling and control of a five-phase series-connected two-motor drive", in *IEEE Ind. Elec. Soc. Annual Meeting*, Roanoke, Virginia, 2003, pp. 208-213.
35. M. Jones, E. Levi, S. N. Vukosavic, H. A. Toliyat, "A novel nine-phase four-motor drive system with completely decoupled dynamic control", in *IEEE Ind. Elec. Soc. Annu. Meeting*, Roanoke, Virginia, 2003, pp. 637-642.
36. M. Jones, S. N. Vukosavic, E. Levi, A. Iqbal, "A novel six-phase series-connected two-motor drive with decoupled dynamic control", in *IEEE Ind. Applicat. Soc. Annu. Meeting*, Seattle, WA, 2004, pp. 639-646.
37. M. Jones, S. N. Vukosavic, E. Levi, "Independent vector control of a six-phase series-connected two-motor drive", in *2nd IEEE Int. Conf. Power Electron., Mach. and Drives*, Edinburgh, UK, 2004, pp. 879-884, CD-ROM Paper 157.
38. M. Jones, S. N. Vukosavic, E. Levi, "Combining induction and permanent magnet synchronous machines in a series-connected six-phase vector-controlled two-motor drive", in *IEEE Power Electron. Specialists Conf.*, Recife, Brazil, June 2005, pp. 2691-2697.
39. M. Jones, S. N. Vukosavic, E. Levi, "Experimental performance evaluation of six-phase series-connected two-motor drive systems", in *11th European Conf. Power Electron. and Applicat.*, Dresden, Germany, Sept. 2005, p. 12, CD-ROM Paper 026.
40. A. Iqbal, S. Vukosavic, E. Levi, M. Jones, H. A. Toliyat, "Dynamics of a series-connected two-motor five-phase drive system with a single-inverter supply", in *IEEE Ind. Applicat. Soc. Annu. Meeting*, Hong Kong, Oct. 2005, pp. 1081-1088.
41. D. Đ. Vračar, S. N. Vukosavić, "Resonant DC link inverter, Mathematical modeling and computer simulation, in *Eurocon*, Belgrade, Nov. 22-24, 2005, pp. 1679- 1682.
42. I. Stamenković, S. N. Vukosavić, "Torque ripple verification in PM machines", in *Eurocon*, Belgrade, Nov. 22-24, 2005, pp. 1497-1500.
43. P. J. Grbovic, S.N. Vukosavic, "An auxiliary power supply based on the phase voltage ripple employed in a micro inverter for feeding three phase Tesla induction motor", in *European Conf. Power Electron. and Applicat.*, 2005.
44. A. Iqbal, E. Levi, M. Jones, S. N. Vukosavic, "Generalised, sinusoidal PWM with harmonic injection for multi-phase VSIs", in *IEEE Power Electron. Spec. Conf.*, Jeju, Korea, 2006, pp. 2871-2877.
45. S. N. Vukosavic, M. Jones, A. Iqbal, E. Levi, "Transient performance evaluation of a five-phase series-connected two-motor drive", in *IEEE Power Electron., Mach. and Drives Conf.*, Dublin, 2006, pp. 581-585.
46. M. Jones, E. Levi, S. N. Vukosavic, "Independent control of two five-phase induction machines connected in parallel to a single inverter supply", in *IEEE Ind. Elec. Soc. Annu. Meeting*, Paris, France, 2006, 1257-1262.
47. A. Iqbal, E. Levi, M. Jones, S. N. Vukosavic, "A PWM scheme for a five-phase VSI supplying a five-phase two-motor drive", in *IEEE Ind. Elec. Soc. Annu. Meeting*, Paris, France, 2006, pp. 2575-2580.
48. E. Levi, M. Jones, S. N. Vukosavic, H. A. Toliyat, "Steady state modelling of series-connected five-phase and six-phase two-motor drives", in *IEEE Ind. Applicat. Soc. Annu. Meeting*, Tampa, FL, 2006, pp. 415-422.
49. M. Jones, E. Levi, S. N. Vukosavic, "A parallel-connected vector-controlled five-phase two-motor drive", presented at the Int. Conf. Elect. Mach., Chania, Greece, 2006, CD-ROM Paper PMA2-19.
50. E. Levi, M. Jones, S. N. Vukosavic, H. A. Toliyat, "Stator winding design for multi-phase two-motor drives with single VSI supply", presented at the Int. Conf. Elect. Mach., Chania, Greece, 2006, CD-ROM Paper OMM2-1.
51. Ž. Despotović, I. Cvetković, S. Vukosavić, "New Technology for Electrostatic Precipitator Control", in *Proc. XIV Int. Symp. Power Electron.*, Novi Sad, Nov. 7-9, 2007, vol. T4-3.5, pp. 1-6.
52. Z. Despotović, S. Vukosavić, "High Frequency Control of Electrostatic Precipitator", in *Proc. XIV Int. Symp. Power Electron.*, Novi Sad, Nov. 7-9, 2007, vol. T4-3.6, pp. 1-6.
53. M. Jones, S. Vukosavic, E. Levi, D. Dujic, "Current control issues in rotor flux oriented multiphase induction motor drives", presented at the Int. Conf. on Elect. Mach., Vilamoura, Portugal, 2008, CD-ROM Paper 834.
54. D. Dujic, M. Jones, E. Levi, S. N. Vukosavic, "A two-motor centre-driven winder drive with a reduced switch count", in *IEEE Ind. Elec. Soc. Annu. Meeting*, Orlando, FL, 2008, pp. 1106 – 1111.
55. S. N. Vukosavic, M. Jones, D. Dujic, E. Levi, "An improved PWM method for a five-leg inverter supplying two three-phase motors", in *IEEE Int. Symp. Ind. Electron.*, Cambridge, UK, 2008, pp. 160-165.

56. S. N. Vukosavic, M. Jones, E. Levi, D. Dujic, "Experimental performance evaluation of a five-phase parallel-connected two-motor drive", in *IEEE Power Electron., Mach. and Drives Conf.*, York, UK, 2008, pp. 686-690.
57. P. Matic, D. Raca, B. Blanusa, S. N. Vukosavic, "A Direct Torque Controlled induction motor drive based on control of tangential and radial component of stator flux vector", in *23rd Annu. IEEE Appl. Power Electron. Conf. and Exposition*, Austin, Texas, USA, 2008, pp. 1819-1825.
58. M. Jones, D. Dujic, E. Levi, S. N. Vukosavic, "Dead-time effects in voltage source inverter fed multi-phase AC motor drives and their compensation", in *13th European Conf. Power Electron. and Applicat.*, 2009, pp. 1-10.
59. P. Matic, A. Rakic, S. N. Vukosavic, "Induction Motor Torque Control in Field Weakening Regime by Voltage Angle Control", in *Proc. 14th Int. Conf. Power Electron. and Motion Control*, Ohrid, Ohrid, Sept. 6-8, 2010.
60. P. Matić, A. Rakić, S. N. Vukosavić, "Direct Torque Control of Induction Motor in field Weakening Based on Gain – Scheduling Approach", presented at the 16th Int. Symp. Power Electron., Novi Sad, Serbia, Oct. 26- 28, 2011.
61. S. Vukosavić, Ž. Despotović, N. Popov, "Retrofit Power Supply of Electrostatic Precipitators on Thermal Power Plant-Morava", in *Proc. XVI Int. Symp. Power Electron.*, Novi Sad, Serbia, Dec.26-28, 2011, vol. T1-1-9, pp.1-5.
62. P. R. Matić, A. Z. Rakić, S. N. Vukosavić, "Stator Voltage Vector Direct Torque Control of Induction machine", in *Proc. 15th Int. Power Electron. and Motion Control Conf.*, Novi Sad, Serbia, Sept. 4-6, 2012, pp. DS 2a.13-1 - DS2a.13-8.
63. S. Vukosavić, N. Popov, M. Terzić, Ž. Despotović, "Multi Resonant Topology of ESP Power, Simulations and Experimental Results", presented at the 17th Int. Symp. Power Electron., Novi Sad, Serbia, 2013.
64. M. Terzic, D. Mihic, S. Vukosavic, "Applicability of Drag-Cup Induction Machine in High-Speed Applications", *XXII<sup>th</sup> International Conference on Electrical Machines (ICEM'2016)*, SwissTech Convention Center Lausanne - Switzerland, September 4-7, 2016, pp. 1373-1379
65. Milan Matijević, Željko V. Despotović, Miloš Milanović, Nikola Jović, Slobodan Vukosavić, "Laboratory model of coupled electrical drives for supervision and control via internet," In *Proceedings of the REV2017—14th International Conference on Remote Engineering and Virtual Instrumentation*, pp. 392-407, March 15–17, 2017, New York, USA: Columbia University. <https://doi.org/10.1007/978-3-319-64352-6>.
66. Bazylev, D., Vukosavic, S., Bobtsov, A., Pyrkin, A., Stankovic, A., Ortega, R., "Sensorless control of PM synchronous motors with a robust nonlinear observer," *Proceedings - 2018 IEEE Industrial Cyber-Physical Systems*, ICPS 2018, pp. 304-309
67. S. N. Vukosavic, A. M. Stankovic, "Electronic power waves in Networks of Inverters," presented at *North American Power Symposium (NAPS)*, Fargo ND, US, Sept. 9-11, 2018, published on IEEE Xplore 03. Jan. 2019, pp. 1-6, INSPEC Accession Number: 18384492, DOI: 10.1109/NAPS.2018.8600614
68. B. Yi, S. N. Vukosavic, R. Ortega, A. M. Stankovic and W. Zhang, "A Frequency Domain Interpretation of Signal Injection Methods for Salient PMSMs," *2019 IEEE Conf. on Control Technology and Applications (CCTA)*, Hongkong, August 19-21, 2019, pp. 517-522

#### Конференције националног значаја - радови публиковани у целини *Conference papers (national)*

1. S. Vukosavić, P. Miljanić, "Naponski inverter baziran na tehnicu praćenja referentne sinusoida", *Jugoslovensko Savetovanje o Energetskoj Elektronici EE1986*, Subotica, Srbija, 1986.
2. S. Vukosavić, Ž. Janda, "Ograničenje dubine modulacije s obzirom na izobličenja izlaznog napona kod trofaznih naponskih invertora sa slobodno vođenom PWM modulacijom", *Jugoslovensko Savetovanje o Energetskoj Elektronici EE1986*, Subotica, Srbija, 1986.
3. J. Bebić, S. Vukosavić, "Razvoj upaljača za IGBT tranzistor", *SEITH V Savjetovanje o elektromotornim pogonima*, Poreč, Hrvatska, 1990, str. 75-82.
4. M. R. Stojić, S. N. Vukosavić, "Nelinearni zakoni upravljanja pozicionim servo pogonom", *ETAN*, Ohrid, Makedonija, 1991.
5. M. R. Stojić, S. N. Vukosavić, "Primena opservera u EMP visokog kvaliteta", *ETAN*, Ohrid, Makedonija, 1994.
6. M. R. Stojić, S. N. Vukosavić, "Projektovanje linearnog optimalnog PID digitalnog zakona upravljanja", *ETAN*, 1995.
7. M. Stojić, S. Vukosavić, M. Naumović, "Pozicioni servopogoni sa unakrsnim upravljanjem, Deo I, Strukturna sinteza", *Zbornik XL Konf. ETRAN*, Budva, Crna Gora, Jun 4-7, Sveska 1, str. 533-536, 1996.
8. V. Vasić, M. Zubić, V. Vučković, S. Vukosavić, "Uticaj mrtvog vremena frekvencijskog pretvarača na stabilnost asinhronog motora", *Zbornik XL Konf. ETRAN*, Budva, Crna Gora, Jun 4-7, Sveska 1, str. 651-654, 1996.
9. Lj. S. Perić, S. N. Vukosavić, "Konvertor za napajanje fluorescentnih rasvetnih tela u elektromotornom vozu", *III Internacionalna Naučna Konf. Železničkih Experata JUŽEL*, Niš, Srbija, Oktobar 3-5, 1996, str. 263-264.
10. L. Matić, S. Vukosavić, Ž. Janda, M. Bebić, "Optimizacija stepena korisnog dejstva asinhronog motora sa indirektnom vektorskom kontrolom", *Zbornik XLI Konf. ETRAN*, Zlatibor, Srbija, Jun 3-6, 1997, Sveska 1, str. 550-553.
11. M. R. Stojić, S. Vukosavić, "Algorithm for suppressing the mechanical resonance in high performance servo drive", *Zbornik XLI Konf. ETRAN*, Zlatibor, Srbija, Jun 3-6, 1997, Sveska 1, str. 405-408.
12. R. Kragić, S. Vukosavić, M. Nedeljković, "Kompaktno rešenje upaljačkog kola za jednu granu prekidačkog mosta sa MOS-kontrolisanim tranzistorima snage", *IX Simpozijum Energetska Elektronika EE97*, Novi Sad, Srbija, Oktobar 22-24, 1997, str. 228-235.



13. D. Marčetić, S. Vukosavić, "Identifikacija parametara rotorskog kola vektorski kontrolisanog asinhronog motora zasnovana na estimaciji elektromagnetnog momenta", *IX Simpozijum Energetska Elektronika EE97*, Novi Sad, Srbija, Oktobar 22-24, 1997, str. 253- 260.
14. V. Vasić, M. Zubić, S. Vukosavić, V. Vučković, "Podržane oscilacije brzine u pogonu asinhronog motora", *IX Simpozijum Energetska Elektronika EE97*, Novi Sad, Srbija, Oktobar 22-24, 1997, str. 369-376.
15. P. Ninković, Ž. Janda, S. Vukosavić, "Termička granica opterećenja kaveznog motora napajanog iz naponskog invertora", *IX Simpozijum Energetska Elektronika EE97*, Novi Sad, Srbija, Oktobar 22-24, 1997, str. 369-376.
16. S. N. Vukosavić, S. Mehandžić, Lj. S. Perić, "Monofazni naponski inverter za neprekidno napajanje potrošača u putničkom vagonu", *IV Internacionalna Naučna Konf. Železničkih Experata JUŽEL*, Vrnjačka Banja, Srbija, Oktobar 2-4, 1997, str. 201-207.
17. V. Vasić, S. Vukosavić, V. Vučković, M. Zubić, "A Novel Compensation Strategy for Suppressing Speed Oscillations of Induction Motor", *VI Internacionalna SAUM Konf.*, Niš, Jugoslavija, Srbija, Septembar 28-30, 1998.
18. M. Zubić, S. Vukosavić, V. Vasić, "The Elimination of Steady-State-Error of VSI with PWM in Feedback Loop by Means of a Feed-Forward Compensator", *VI Internacionalna SAUM Konf.*, Niš, Jugoslavija, Srbija, Septembar 28-30, 1998.
19. D. Marčetić, S. Vukosavić, "Mehanizam za korekciju parametara rotorske otpornosti asinhronog motora zasnovan na procenjenom momentu", *IX Simpozijum Energetska Elektronika EE99*, Novi Sad, Srbija, Novembar 1999.
20. B. Blanuša, P. Matić, S. N. Vukosavić, "Jedan algoritam za minimizaciju gubitaka snage vektorski upravljano asinhronog motora primjenom FUZZY logike", *XLIV Konf. ETRAN*, Sokobanja, Srbija Jun 26-29, 2000, str. 312-314.
21. B. Blanuša, S. N. Vukosavić, "Algorithm for Minimization Power Losses in Vector Controlled Induction Machine Drive", *Zbornik radova XI Simpozijum Energetska Elektronika EE2001*, Novi Sad, Srbija, Oktobar 31. – Novembar 2., 2001, str. 229-233.
22. V. Jevremović, S. Vukosavić, "Some practical aspects of teaching DSP in laboratory", *Zbornik radova XI Simpozijum Energetska Elektronika EE2001*, Novi Sad, Srbija, Oktobar 31. – Novembar 2., 2001.
23. P. Matić, B. Blanuša, S. N. Vukosavić, "Direktna kontrola momenta i vektorsko upravljanje u mikroprocesorskom upravljanju elektromotornim pogonima", *Naučno – Stručni Simpozijum Informacione Tehnologije - Upravljanje u industrijskim postrojenjima INFOTEH*, Jahorina, Bosna i Hercegovina, Mart 24-27, 2002.
24. P. Matić, B. Blanuša, S. N. Vukosavić, "Novi koncept direktne kontrole momenta asinhronog motora", *XLVI Konf. ETRAN*, Teslić, Bosna i Hercegovina, 2002, str. 295-298, (nagrađeni rad).
25. P. Matić, B. Blanuša, S. Vukosavić, "Mogućnosti testiranja algoritama upravljanja asinhronim motorom na laboratorijskoj stanici VEKTRA", *IV Simpozijum Industrijske Elektronike INDEL*, Banja Luka, Bosna i Hercegovina, Novembar 14-16, 2002, str. 197-202.
26. P. Matić, B. Blanuša, S. N. Vukosavić, "Specifičnosti primjene mikroprocesorski upravljanih asinhronih mašina u električnoj vuči", *Naučno – Stručni Simpozijum Informacione Tehnologije - Upravljanje u industrijskim postrojenjima INFOTEH*, Jahorina, Bosna i Hercegovina, Mart 23-26, 2003.
27. B. Blanuša, S. N. Vukosavić, "Algoritam za minimizaciju snage gubitaka vektorski upravljano asinhronog pogona", *XII Simpozijum Energetska Elektronika EE2003*, Novi Sad, Srbija, November, 2003.
28. P. Matić, B. Blanuša, S. N. Vukosavić, "Direktna kontrola asinhronih mašina u režimu velikih brzina", *XII Simpozijum Energetska Elektronika EE2003*, Novi Sad, Srbija, November, 2003.
29. R. Kragić, S. N. Vukosavić, "Topologije baterijski napajanih vučnih pretvarača", *XII Simpozijum Energetska Elektronika EE2003*, Novi Sad, Srbija, November, 2003.
30. B. Blanuša, P. Matić, S. N. Vukosavić, "An Improved Search Based Algorithm For Efficiency Optimization In The Induction Motor Drives", *XLVII Konf. ETRAN*, Herceg Novi, Crna Gora, 2003.
31. M. Matijević, M. Stojić, S. Vukosavić, "IMPACT struktura u servo pogonima visokih performansi potiskivanje torzionih oscilacija", *ETRAN*, 2004.
32. E. Levi, A. Iqbal, M. Jones, S. N. Vukosavić, "Experimental testing of series-connected vector-controlled multi-phase multi-motor drives", *XIII Power Electron. Symposium EE2005*, Novi Sad, Yugoslavia, Serbia, 2005, CD-ROM Paper No. T2-1.1.
33. P. Matić, D. Raca, B. Blanuša, S. N. Vukosavić, "Granice statičkih karakteristika momenta asinhronog motora u naponskom i strujnom limitu", *XIII Simpozijum Energetska Elektronika EE2005*, Novi Sad, Srbija, 2005, CD-ROM Paper T.
34. I. Stevanović, R. Prole, D. Jevtić, D. Arnautović, S. Josifović, S. Dobričić, S. Vukosavić, "Objedinjeno upravljanje naponom, otresanjem elektroda i grejanjem izolatora i levkova kod elektrostatičkih filtera", *Zbornik radova, Elektrotehnički institut "Nikola Tesla*, br. 18, str. 143-152, 2007.
35. B. Blanuša, P. Matić, Ž. Ivanović, S. N. Vukosavić, "Algoritam za optimizaciju efikasnosti pogona sa asinhronim motorom zasnovan na modelu gubitaka i kontroli rezerve momenta", *LI Konf. ETRAN*, Herceg Novi, Igalo, Crna Gora, Jun 4-8, 2007.
36. P. Matić, B. Blanuša, D. Raca, "Određivanje optimalnog fluksa rotora za direktno upravljanje asinhronim motorom u slabljenju polja", *XIV Simpozijum Energetska Elektronika EE2007*, Novi Sad, Srbija, Novembar 7-9, 2007.
37. S. Vukosavić, Z. Despotović, B. Micović, M. Bakić, "The High Frequency Supply for Remove Fly Asch in The Smoke of Thermal Plants", *Zbornik radova III Internacionalnog Simpozijuma Elektrane 2008 - Društvo termičara Srbije*, Vrnjačka Banja, Srbija, Oktobar 28-31, 2008,

38. Ž. Despotović, D. Arnautović, I. Stevanović, S. Vukosavić, "Adaptivna kontrola rada elektrostatičkih izdvajača", *Zbornik radova III Internacionalnog Simpozijuma Elektrane - Društvo termičara Srbije*, Vrnjačka Banja, Srbija, Oktobar 28-31, 2008.
39. Ž. Despotović, S. Vukosavić, D. Arnautović, I. Stevanović, "Visokofrekventno napajanje i njegov uticaj na kvalitet rada elektrostatičkih izdvajača", *Zbornik radova III Internacionalnog Simpozijuma Elektrane - Društvo termičara Srbije*, Vrnjačka Banja, Srbija, Oktobar 28-31, 2008,
40. Ž. Despotović, M. Bakić, S. Vukosavić, "Eksploataciona ispitivanja visokonaponskog visokofrekventnog napajanja na termoelektrani Morava", *Zbornik radova XV Internacionalnog Simpozijuma Energetska Elektronika EE2009*, Novi Sad, Srbija, Oktobar 28-30, 2009, vol. EE-1.1, str. 1-6
41. S. Vukosavić, Ž. Despotović, O. Đorđević, "Razvoj visokonaponskog visokofrekventnog transformatora snage 60kVA za napajanje elektrofiltarskih postrojenja u termo blokovima EPS", *Zbornik radova XV Internacionalnog Simpozijuma Energetska Elektronika EE2009*, Novi Sad, Srbija, Oktobar 28-30, 2009, vol. EE3-1.3, str. 1-6
42. P. Matić, S. N. Vukosavić, D. Raca, "Feed-forward upravljanje momentom i fluksom asinhronog motora u slabljenju polja", *Naučno – Stručni Simpozijum INFOTEH*, Jahorina, Bosna i Hercegovina, Mart 17-19, 2010.
43. Ž. Despotović, S. Vukosavić, M. Bakić, "Savremeni elektrostatički izdvajači", *Međunarodno savetovanje – Energetika*, Zlatibor, Srbija, Mart 23-26, 2010.
44. D. Mihić, M. Terzić, N. Popov, S. Vukosavić "Optimizacija sinhronih mašina sa stalnim magnetima na rotoru za primene u vozilima", *ETRAN*, Donji Milanovac, Srbija, Jun 7-10, 2010.
45. S. Vukosavić, Ž. Despotović, N. Popov, M. Tasić, "Uvećanje efikasnosti elektrofiltera u TE Morava kroz retrofit niskonaponskih pretvaračkih sekcija i ugradnju uređaja ETF-DBS180", *Zbornik radova IV Internacionalnog Simpozijuma Elektrane 2010 - Društvo termičara Srbije*, Vrnjačka Banja, Srbija, Oktobar 26-29, 2010,
46. S. Vukosavić, Ž. Despotović, N. Popov, M. Tasić, "Eksploataciona ispitivanja visokofrekventnog postrojenja za napajanje elektrofiltera u termoelektrani Morava", *Zbornik radova IV Internacionalnog Simpozijuma Elektrane 2010 - Društvo termičara Srbije*, Vrnjačka Banja, Srbija, Oktobar 26-29, 2010,
47. S. Vukosavić, Ž. Despotović, N. Popov, "Savremene metode elektrostatičkog izdvajanja čestica iz dimnih gasova", *Naučno-Stručni Skup – Efikasnost u privredi*, Zrenjanin, Srbija, Novembar 26-27, 2010.
48. S. Vukosavić, Ž. Despotović, N. Popov, "Visokonaponski visokofrekventni energetska pretvarač za elektrostatičko izdvajanje čestica iz dimnih gasova na termoelektranama, finansijski efekti", *Međunarodno savetovanje – Energetika*, Zlatibor, Srbija, Mart 23-25, 2011,
49. S. Vukosavić, Ž. Despotović, N. Popov, "Univerzalni elektronski merni modul za merenje struje i napona elektrostatičkih izdvajača", *Međunarodno savetovanje – Energetika*, Zlatibor, Srbija, Mart 23-25, 2011 .
50. S. Vukosavić, Ž. Despotović, "Iskustva u eksploataciji hibridnog napajanja elektrostatičkih izdvajača na TE-Morava", *CIGRE*, Zlatibor, Srbija, Maj 29.-Jun 3., 2011.
51. P. Matić, A. Rakić, S. N. Vukosavić, "Polifazorska predstava modela asinhronog motora u režimu slabljenja polja", *LV Konf. ETRAN*, Teslić, Bosna i Hercegovina, Jun 6-9, 2011.
52. D. Mihić, N. Popov, M. Terzić, S. Vukosavić, "Optimizacija sinhronih generator u nekonvencionalnim izvorima", *Časopis - Energija, Ekonomija, Ekologija*, 2011.
53. M. Terzić, D. Mihić, S. Vukosavić, "Određivanje zavisnosti gubitaka u gvožđu SMSM od brzine u praznom hodu korišćenjem metode konačnih elemenata", *ETRAN*, Zlatibor, Srbija, Jun 11-14, 2012.
54. Ž. Despotović, M. Terzić, S. Vukosavić, "Contemporary Approach to Power of Electrostatic Precipitators", *XII Int. Conf. INFOTEH*, Faculty of Electrical Engineering - Sarajevo, Mar., 2013.
55. M. Terzić, D. Mihić, S. Vukosavić, "Projektovanje visokobrzinskog asinhronog motora sa malom inercijom", *ETRAN*, Zlatibor, Srbija, Jun 3-6, 2013.
56. S. N. Vukosavić, Ž. V. Despotović, N. Popov, N. Lepojević, "Electro-thermal testing of high voltage high frequency ESP power AR70/100", *Zbornik radova Internacionalnog Simpozijuma Elektrane 2014*, Zlatibor, Srbija, Oktobar 28-31, 2014.
57. Dragan Mihić, Mladen Terzić, Slobodan Vukosavić, Željko Despotović, "Novi analitički model koji uzima u obzir efekte međusobne interakcije faza 8/6 prekidačkog reluktantnog motora," *Naučno – Stručni Simpozijum INFOTEH*, Jahorina, Bosna i Hercegovina, Mart 2016, pp. 161-166
58. Đorđe Lekić, Slobodan Vukosavić, „Calculation of optimal rotor permanent magnet dimensions for RPMFS machine”, *17th International Symposium on INFOTEH 2018 - Proceedings*, pp. 1-6
59. Đorđe Lekić, Slobodan Vukosavić, "Program for Finite Element Based Design of Rotor Permanent Magnet Flux Switching Machine," *Proceedings - 2018 International Symposium on Industrial Electronics (INDEL)*, pp. 1-7, November 2018.
60. S. N. Vukosavić, O. Đorđević, Ž. V. Despotović, M. Bakić, "Design and Testing of High Voltage High Frequency Transformer 0.6 kV/60kV for Power of 60kW", 2019, *18th Int. Symposium INFOTEH*, 1-7

#### Предавања по позиву - конференције националног значаја *Invited papers / keynotes (national)*

1. S.Vukosavić, "Projektovanje adaptivnog mikroprocesorskog upravljanja servo pogonom sa asinhronim motorom", *SEITH V Savjetovanje o elektromotornim pogonima*, plenarni rad po pozivu, Poreč, Hrvatska, 1990, str. 256-263

2. S. N. Vukosavić, Lj. S. Perić, V. Dimitrijević, "Trofazni statički pretvarači za regulaciju brzine obrtanja elektromotornih pogona sa asinhronim motorom u železnici", *IV Internacionalna naučna konf. železničkih eksperata JUŽEL*, plenarni rad po pozivu, Vrnjačka Banja, Srbija, Oktobar 2-4, 1997, str. 170-177.
3. S. Vukosavić, "Trendovi u oblasti digitalno upravljanih elektromotornih pogona", plenarni rad po pozivu, *IX Simpozijum energetska elektronika EE97*, plenarni rad po pozivu, Novi Sad, Srbija, Oktobar 22-24, 1997.
4. S. Vukosavić, "Controlled Electrical Drives - Status of Technology", *Zbornik XLII konf. ETRAN*, plenarni rad po pozivu, Vrnjačka Banja, Srbija, Jun 2-5, 1998, Sveska 1, str. 3-16.
5. S. N. Vukosavić, "Serijska i paralelna konfiguracija hibridnog električnog automobila", *V internacionalna naučna konf. železničkih eksperata JUŽEL*, plenarni rad po pozivu, Vrnjačka Banja, Srbija, Oktobar 2-4, 1998.
7. S. N. Vukosavić, Lj. Perić, "Uređaji energetske elektronike u železnici, Mogućnosti za domaću realizaciju četvoronaponskog vagonkog pretvarača", *VI Internacionalna naučna konf. železničkih eksperata JUŽEL*, plenarni rad po pozivu, Vrnjačka Banja, Srbija, Oktobar 6-8, 1999, str. 58-62.
6. S. Vukosavić, "Sensorless AC Drives", *X Simpozijum Energetska Elektronika EE99*, plenarni rad po pozivu, Novi Sad, Srbija, Oktobar 14-16, 1999, str. 553-574.
8. E. Levi, S. N. Vukosavić, M. Sokola, "Experimental methods for magnetising curve identification during commissioning of vector controlled induction machines", *X Power Electronics Symposium EE99*, plenarni rad po pozivu, Novi Sad, Srbija, 1999, str. 22-39, CD-ROM Paper P-22.
9. S. N. Vukosavić, "Digitalno upravljani električni pogoni i njihov potencijal u pogledu uštede električne energije", *Zbornik XLV konf. ETRAN*, plenarni rad po pozivu, Bukovička Banja, Arandjelovac, Srbija, Jun 4 - 7, 2001.
10. Lj. S. Perić, S. N. Vukosavić, "Uštede električne energije u električnim pogonima", *Zbornik radova naučno-stručnog savetovanja - Savremena kretanja u razvoju elektro-energetike i racionalne potrošnje električne energije*, plenarni rad po pozivu, Beograd, Srbija, 2001, str. 57-64.
11. S. N. Vukosavić, "Advanced DSP-based solutions in Power Engineering", *EUROCON2005*, Belgrade, Serbia, Nov. 22-24, 2005.
12. S. Vukosavić, Ž. Despotović, N. Popov, "The Multiresonant Power Converter Topology for Supplying Electrostatic Precipitators on Thermal Power Plants", Invited Lecture, *V Internacionalni Simpozijum International Symposium Power Plants 2012- Society of Thermal Engineers of Serbia*, Zlatibor, Srbija, Oktobar 30 – Novembar 2, 2012.
13. Željko V Despotović, Slobodan N Vukosavić, Nikola Z Popov, "Uređaji energetske elektronike za smanjenje emisija čvrstih čestica na termoelektranama," *Zbornik radova I savetovanja sa međunarodnim učešćem- Informacione tehnologije, razvoj i primena u unapređenju životne sredine - IT-EKO-2015*.
14. S. N. Vukosavić, "Teslino obrtno magnetsko polje i razvoj električnih mašina", *Zbornik LX konferencije ETRAN*, plenarno predavanje po pozivu, Zlatibor, Srbija, 13-16. jun 2016.

### Међународни патенти *Patent*

S. N. Vukosavic, "Third harmonic comutation control system and method", USA Patent 4912378, Mar. 27, 1990.  
<https://docs.google.com/viewer?url=patentimages.storage.googleapis.com/pdfs/US4912378.pdf>

### Одзив *Citations*

Scopus, 7<sup>th</sup> December 2021, *Exclude self citations of selected author*, citations 2983 times, *h-index* = 31  
 Google Scholar, 7<sup>th</sup> December 2021, citations 5331 times, *h-index* = 38