## Scientific papers published in reference journals and transactions

- 1. M. R. Stojic, S. N. Vukosavic: "Design of microprocessor-based system for positioning servomechanism with induction motor", IEEE Trans. on Ind. Electronics, Vol. 38, No. 5, October 1991, pp 369-378
- 2. S.Vukosavic, V.R.Stefanovic: "SRM Inverter Topologies: A Comparative evaluation", IEEE Trans. on Ind. Applications, Vol. 27, No. 6, Nov/Dec. 1991, pp 1034-1047
- 3. 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", ELECTRIC MACHINES and POWER SYSTEMS, Vol. 20, No. 5, Sept./Oct. 1992, pp 405-424
- 4. 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. on Ind. Electronics, Vol. 40, No.1, February 1993, pp. 130-138
- 5. M. Stojic, S. N. Vukosavic: "A Generalization of Kharitonov's four-polynomial concept for robust relative-stability problems", Facta Universitatis (Nis) Ser. Elec. Energ. 6(1993), 1-12
- 6. S. N. Vukosavic, M. R. Stojic, "Reduction of Parasitic Spectral Components of Digital Space Vector Modulation by Real-Time Numerical Methods", IEEE Trans. on Power Electronics, February 1995, pp 94-102
- 7. 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), Series: Electronics and Energetics, vol. 1(1995), pp 11-27
- 8. Milic Stojic, Slobodan Vukosavic "Sufficient Conditions for the Robust Relative Stability of Linear Continuous Systems", Avtomatika i telemehanika, no. 12, November 1996, Rossijskaja Akademija Nauk, Moskva, pp 84-90 in Russian
- 9. S. N. Vukosavic, M. R. Stojic, "Suppression of Torsional Oscillations in a High-Performance Speed Servo Drive", IEEE Trans. on Industrial Electronics, Vol. 45, No. 1, February 1998, pp 108-117
- M. R. Stojic, S. N. Vukosavic, Ljubisa Draganovic: "Process control structure and optimal tuning of a digital PID stand-alone controller, FACTA UNIVERSITATIS, (NIS), Series: Electronics and Energetics, vol. 1 (2000) pp 1-11
- E. Levi, M. Sokola, S.N. Vukosavic, "A Method for Magnetizing Curve Identification in Rotor Flux Oriented Induction Machines", IEEE Transaction on Energy Conversion, Vol. 15, No. 2, June 2000. pp. 157-162
- E. Levi, S.N. Vukosavic, "Identification of the Magnetising Curve during Commissioning of a Rotor Flux Oriented Induction Machine", IEE Proceedings - Electr. Power Applications, Vol. 146, No.6, November 1999. pp. 685-693
- 13. 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, Nov. 2000, pp. 39-50.
- 14. 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 Transactions on Industrial Electronics, Vol. 48, No. 1, February 2001, pp 195-204
- 15. Vujicic, V, Vukosavic, S.N, "A simple nonlinear model of the switched reluctance motor", IEEE Transactions on Energy Conversion, Vol. 15, No. 4, Dec. 2000, pp 395 –400
- 16. Vasic, V.; Vukosavic, S., "Robust MRAS-based algorithm for stator resistance and rotor speed identification", IEEE Power Engineering Review, Volume 21, Issue 11, Nov 2001, pp: 39 -41
- 17. E.Levi, M.Jones, S.N.Vukosavic; Even-phase multi-motor vector controlled drive with single inverter supply and series connection of stator windings, *IEE Proc. – Electric Power Applications*, vol. 150, no. 5, 2003, pp. 580-590.
- 18. V.Vasic, S.N.Vukosavic, E.Levi; A stator resistance estimation scheme for speed sensorless rotor flux oriented induction motor drives, *IEEE Trans. on Energy Conversion*, vol. 18, no. 4, 2003, pp. 476-483.
- 19. S.N.Vukosavic, E.Levi; A method for transient torque response improvement in optimum efficiency induction motor drives, *IEEE Trans. on Energy Conversion*, Vol. 18, No. 4, 2003

- 20. S.N.Vukosavic, E.Levi; Robust DSP-based efficiency optimisation of a variable speed induction motor drives, *IEEE Trans. on Industrial Electronics*, Vol. 50, No. 3, 2003.
- 21. S. Vukosavic, E. Levi, V. Vasic; Loss function on-line identification for the induction motor drives, *Electronics*, vol. 7, no. 2, 2003, pp. 21-31.
- 22. 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, 2003, pp. 9-20.
- 23. E.Levi, M.Jones, S.N.Vukosavic, H.A.Toliyat; Operating principles of a novel multi-phase multi-motor vector controlled drive, *IEEE Trans. on Energy Conversion*, vol. 19, no. 3, 2004, pp. 508-517.
- 24. 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 Electronics & Drives Journal*, vol. 14, no. 3, 2004, pp. 38-48.
- 25. 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. on Power Electronics*, vol. 19, no. 2, 2004, pp. 320-335.
- 26. S.N.Vukosavic, M.Jones, E.Levi, J.Varga; Rotor flux oriented control of a symmetrical six-phase induction machine, *Electric Power Systems Research*, vol. 75, no. 2-3, 2005, pp. 142-152. 2005.
- 27. M.Jones, S.N.Vukosavic, E.Levi, A.Iqbal; A six-phase series-connected two-motor drive with decoupled dynamic control, *IEEE Trans. on Industry Applications*, vol. 41, 2005. pp 1056-1066
- 28. E.Levi, M.Jones, S.N.Vukosavic; A series-connected two-motor six-phase drive with induction and permanent magnet machines, *IEEE Trans. on Energy Conversion*, vol. 21, No. 1, March 2006, pp 121 129
- 29. E.Levi, S.N.Vukosavic, M.Jones; Vector control schemes for series-connected six-phase two-motor drive systems, *IEE Proc. Electric Power Applications*, vol. 152, no. 2, 2005, pp. 226-238.
- 30. Dj. Stojic, S. Vukosavic "Induction motor drive based on the stator flux vector control" Electrical Engineering (Archiv fur Elektrotehnik), vol. 87, no. 1, pp. 23-32, January 2005.
- 31. Djordje M. Stojic and Slobodan N. Vukosavic, A New Induction Motor Drive Based on the Flux Vector Acceleration Method, IEEE Transactions on Energy Conversion, vol. 20, no. 1, march 2005 173-180
- 32. Z,Grbo, S.Vukosavic, E.Levi; A novel power inverter for switched reluctance motor drives, *Facta Universitatis (Nis), Ser: Elec. Energ*, vol. 18, no. 3, 2005, pp..
- 33. Vladan Vujičić, Slobodan N. Vukosavić, Milenko B. Jovanović: Asymmetrical Switched Reluctance Motor for a Wide Constant Power Range, IEEE Transactions on Energy Conversion, vol. 21, No. 1, March 2006, pp 44-51
- 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. on Energy Conversion*, vol. 22, No. 2, June 2007, pp 281-289
- 35. 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, *IEEE Trans. on Industrial Electronics*, vol. 54, 2007. (accepted for publication)
- <u>36.</u> Darko P. Marčetić, Slobodan N. Vukosavić, Speed Sensorless AC Drives With the Rotor <u>Constant Parameter Update</u>, *IEEE Trans. On Industrial Electronics*, vol. 54, No. 5, October 2007, pp 2618-2625