

Bibliografija

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NAUČNO-ISTRAŽIVAČKI REZULTATI

Bibliografija za period od 1982 (od prvog zaposlenja na FTN, Univerzitet u Novom Sadu) do 2015, sistematizovana po Pravilniku o zvanjima Ministarstva za nauku i tehnologiju Republike Srbije.

M10 Monografije

Poglavlja u knjigama/monografijama (na engleskom)

1. **E.Levi**; Multiphase AC machines, Chapter 3 in *The Industrial Electronics Handbook: Power Electronics and Motor Drives*, 2nd Edition, Editors: B.M.Willamowski and J.D.Irwin, CRC Press: Taylor and Francis Group, Boca Raton, FL, 2011, ISBN 978-1-4398-0285-4, pp. 3.1-3.31.
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M20 Radovi međunarodnog značaja

M21 Radovi u vrhunskim međunarodnim časopisima - radovi po pozivu

1. **E.Levi**; Advances in converter control and innovative exploitation of additional degrees of freedom for multiphase machines, *IEEE Trans. on Industrial Electronics*, vol. 63, no. , 2016, pp. .
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3. **E.Levi**, I.N.W.Satiawan, N.Bodo, M.Jones; A space vector modulation scheme for multi-level open-end winding five-phase drives, *IEEE Trans. on Energy Conversion*, vol. 27, no. 1, 2012, pp. 1-10.
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8. **E.Levi**; Special issue on ‘Multi-phase and multi-motor drives’, *European Power Electronics and Drives (EPE) Journal*, vol. 14, no. 3, 2004, p. 4. (editorial)

M21 Radovi u vrhunskim međunarodnim časopisima

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2. I.Subotic, N.Bodo, **E.Levi**, M.Jones, V.Levi; Isolated chargers for EVs incorporating six-phase machines, *IEEE Trans. on Industrial Electronics*, vol. 63, no. , 2016, pp. .
3. I.Subotic, N.Bodo, **E.Levi**; An EV drive-train with integrated fast charging capability, *IEEE Trans. on Power Electronics*, vol. 31, no. , 2016, pp.

4. S. Moinoddin, H. Abu-Rub, A. Iqbal, S.M. Ahmed, O. Dordevic, **E. Levi**; Space vector pulse-width modulation technique for an eleven-phase voltage source inverter with sinusoidal output voltage generation, *IET Power Electronics*, vol. , no. , 2015, pp. .
5. I.Subotic, N.Bodo, **E.Levi**, M.Jones; On-board integrated battery charger for EVs using an asymmetrical nine-phase machine, *IEEE Trans. on Industrial Electronics*, vol. 62, no. 5, 2015, pp. 3285-3295.
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204. R.Jevremovic, **E.Levi**, V.Katic; Three-phase natural-commutated inverter for induction motor drives, *5th Yugoslav Conference on Power Electronics*, Ljubljana, Slovenia, 1984, pp. 372-381.
205. V.Katic, R.Jevremovic, Dj.Oros, **E.Levi**; DC chopper fed traction motor for electric forklift, *2nd Electrical Drives Symposium*, Trogir, Croatia, 1984, pp. 415-421.

M40 Nacionalne monografije

M41 Monografija nacionalnog značaja

1. **E.Levi**, V.Vuckovic, V.Strezoski; *Fundamentals of Power Engineering - Electrical and Electromechanical Energy Conversion*, 1st Edition: University of Novi Sad Press, Novi Sad, Yugoslavia, 1992; 2nd Edition: FTN and Stylos Press, Novi Sad, Yugoslavia, ISBN 86-80249-23-8, 1997; 3rd Edition: Stylos Press, Novi Sad, Serbia and Montenegro, ISBN 86-7473-155-4, 2004.

M44 Poglavlje u monografiji

1. **E.Levi**, M.Wang; Induction motor sensorless vector control in the field weakening region, *IEE Seminar 'Advances in Induction Motor Control'*, IEE Digest no. 2000/072, London, UK, 2000, pp. 3/1-3/6.
2. **E.Levi**; Improvements in operation of vector controlled induction machines by application of modified machine models, *IEE Colloquium on 'Advances in Control Systems for Electric Drives'*, IEE Digest no. 1995/114, London, UK, 1995, pp. 3/1-3/8.
3. M.Sokola, **E.Levi**, A.Boglietti, M.Pastorelli; Detuned operation of rotor flux oriented induction machines in the field-weakening region due to iron loss, *IEE Colloquium on 'Vector Control and Direct Torque Control of Induction Machines'*, IEE Digest no. 1995/181, London, UK, 1995, pp. 4/1-4/6.

M70 Magistarske i doktorske teze

M71 Doktorska disertacija

Tema Doktorskog rada: "Field-Oriented Control of Induction Machines in the Presence of Magnetic Saturation", mentor prof. Vladan Vučković, Univerzitet u Beogradu, 1990.

M72 Magistarska teza

Tema Magistarskog rada: "Analysis of Induction Motor Drive Fed from Three-Phase Resonant Parallel Inverter", mentor prof. Vladan Vučković, Univerzitet u Beogradu, 1986.

2. OSTALI POKAZATELJI USPEHA

2.1 Međunarodne nagrade

- EPE (European Power Electronics Association) "Outstanding Achievement Award", 2014.
- Fellow IEEE, Class of 2009, with citation: "for contributions to vector control of induction motor drives".
- Cyril G. Veinott 2009 award of the IEEE Power and Energy Society (PES): "for contributions to Modelling and Control of Induction Machines".
- "Significant Reviewer" recognition by the IEEE Power Engineering Society for exceptional contributions to the reviewing process in IEEE Transactions on Energy Conversion (2006).
- Best IEEE Transactions on Industrial Electronics paper award for the paper published in 2008.
- Committee Prize Paper Award (First Prize) of the Electric Machines Technical Committee of the IEEE IES for the paper "A five-phase two-motor centre-driven winder with series-connected motors" (M.Jones, D.Dujic, E.Levi) presented at the 33rd IECON, Taipei, Taiwan, 2007.

2.2 Uvodna predavanja na konferencijama

1. **E.Levi**: Multiphase drives: Power electronic supply control and EV charging options, *IEEE Int. Symp. on Industrial Electronics*, Istanbul, Turkey, 2014. (Keynote conference presentation)
2. **E.Levi**; Recent advances in multiphase variable-speed drives, *ElectrIMACS*, Valencia, Spain, 2014.

3. **E.Levi**; Integrated on board battery chargers for EVs: State-of-the-art and new solutions, *Int. Conf. on Renewable Energy Research and Applications ICRERA*, Madrid, Spain, 2013. (Keynote conference presentation)
4. **E.Levi**; Multilevel multiphase drive systems – Topologies and PWM control, *IEEE Int. Electric Machines and Drives Conf. IEMDC*, Chicago, IL, 2013, pp. 1500-1508 (slides). (Keynote conference presentation).
5. I.Subotic, **E.Levi**; A review of single-phase on-board integrated battery charging topologies for electric vehicles, *IEEE Workshop on Electrical Machines Design, Control and Diagnosis WEMDCD*, Turin, Italy, 2015, pp. 136-145.
6. **E.Levi**, N.Bodo, O.Dordevic, M.Jones; Recent advances in power electronic converter control for multiphase drive systems, *IEEE Workshop on Electrical Machines Design, Control and Diagnosis WEMDCD*, Paris, France, 2013, pp. 156-165.
7. M.Jones, O.Dordevic, N.Bodo, **E.Levi**; PWM algorithms for multilevel inverter supplied multiphase variable-speed drives, *XVI Int. Symp. on Power Electronics Ee 2011*, Novi Sad, Serbia, 2011, CD-ROM Paper No. P-2.1, pp. 1-10.
8. **E.Levi**; Recent developments in high performance variable-speed multiphase induction motor drives, *6th Int. Symp. Nikola Tesla*, Belgrade, Serbia, 2006, pp. 53-64.
9. **E.Levi**, A.Iqbal, S.N.Vukosavic, V.Vasic; Vector-controlled multi-phase multi-motor drive systems with a single inverter supply, *XII Power Electronics Symposium Ee 2003*, Novi Sad, Yugoslavia, 2003, CD-ROM Paper No. IP2-1.
10. S.Vukosavic, **E.Levi**, V.Vasic; Loss function on-line identification for the induction motor drives, *XII Power Electronics Symposium Ee 2003*, Novi Sad, Yugoslavia, 2003, CD-ROM Paper No. IP2-2.
11. **E.Levi**, Z.Ibrahim; Fuzzy logic or PI speed control in high performance AC drives: which is preferable?, *XI Power Electronics Symposium Ee 2001*, Novi Sad, Yugoslavia, 2001, pp. 37-46.
12. **E.Levi**, S.N.Vukosavic, M.Sokola; Experimental methods for magnetising curve identification during commissioning of vector controlled induction machines, *X Power Electronics Symposium Ee'99*, Novi Sad, Yugoslavia, 1999, pp. 22-39.
13. **E.Levi**; A unified approach to modelling of saturated smooth air-gap and salient pole ac machines, *IX Power Electronics Symposium Ee'97*, Novi Sad, Yugoslavia, 1997, pp. 10-27.
14. **E.Levi**; Advancements in control of field-oriented induction machines by means of modified machine models, *VIII Power Electronics Symposium Ee'95*, Novi Sad, Yugoslavia, 1995, pp. 25-36.

2.3 Odbori međunarodnih konferencija

1. IEEE Int. Symp. Ind. Electronics ISIE, Buzios, Brazil 2015 – Electric Machines and Drives Topic Co-Chair
2. IEEE IECON, Dallas, TX, 2014 – Special Session Co-Chair
3. ElectrIMACS, Valencia, Spain, 2014 – Topic TT1 Co-Chair
4. ICRERA 2013, Madrid, Spain, 2013.
5. European Conf. on Power Electronics and Applications (EPE), 2013, Lille, France (Topic Chair for Topic 11: “Adjustable Speed Drives”).
6. 15th Power Electronics and Motion Control Conference and Exposition EPE-PEMC 2012 ECCE Europe, 2012, Novi Sad, Serbia (Technical Programme Chair)
7. European Conf. on Power Electronics and Applications (EPE), 2011, Birmingham, UK, (Topic Chair for Topic 11: “Adjustable Speed Drives”).
8. Electrimacs 2011, Paris, France (Topic Chair for Topic 1).
9. III Int. Conf. on Power Eng., Energy and Electrical Drives PowerEng 2011, Torremolinos, Spain.
10. IEEE-ICIT 2010, Vina del mar, Chile (a special session organiser).
11. IEEE IECON 2009, Porto, Portugal (Track Co-Chair for “Electric Machines and Drives”).
12. European Conf. on Power Electronics and Applications (EPE), 2009, Barcelona, Spain (Topic Chair for Topic 11: “Adjustable Speed Drives”).
13. Int. Conf. on Renewable Energy and Power Quality (ICREPQ), 2009, Valencia, Spain.
14. IEEE Int. Symp. on Industrial Electronics ISIE, Publicity Chair, 2008, Cambridge, UK.
15. IEEE Mediterranean Electrotechnical Conf. MELECON, 2008, Ajaccio, France
16. European Conf. on Power Electronics and Applications (EPE), 2007, Aalborg, Denmark (Topic Chair for Topic 11: “Adjustable Speed Drives”).
17. Power Electronics and Motion Control Conf. EPE-PEMC, Portoroz, Slovenia, 2006.
18. European Conf. on Power Electronics and Applications (EPE), 2005, Dresden, Germany (Topic Chair for Topic 11: “High Performance Drives”).

19. The 5th IASTED Int. Conf. on “Power and Energy Systems EuroPES 2005”, 2005, Benalmadena, Spain.
20. 9th Spanish Portuguese Congress on Electrical Engineering 9CHLIE, Marbella, Spain, 2005.
21. Power Electronics and Motion Control Conf. EPE-PEMC, Riga, Latvia, 2004.
22. IEEE Int. Conf. on Industrial Technology ICIT’03, 2003, Maribor, Slovenia.
23. European Conf. on Power Electronics and Applications (EPE), 2003, Toulouse, France (Topic Chair for Topic 9: “Motor Drives”).
24. IEEE Power Elec. Spec. Conf. PESC 2003 (Member of the Programme Committee and Topic Chair for “Integrated Diagnostics / Intelligent Systems”), Acapulco, Mexico.
25. Power Electronics and Motion Control PEMC 2002, Cavtat & Dubrovnik, Croatia.
26. IEEE Power Elec. Spec. Conf. PESC 2001 (Member of the Programme Committee and Topic Chair for “Integrated Diagnostics / Intelligent Systems”), Vancouver, Canada.
27. European Conf. on Power Electronics and Applications (EPE), 2001 Graz, Austria.
28. E=TeM², Liege, Belgium, March 2001
29. European Conf. on Power Electronics and Applications (EPE), Lausanne, Switzerland, 1999.
30. IEEE Int. Symp. on Industrial Electronics ISIE’99, Bled, Slovenia, 1999.

2. 4 Uređivački odbor časopisa

1. IET Electric Power Applications (UK) – Editor-in-Chief, 2010 - present
2. IEEE Transactions on Industrial Electronics (USA) – Co-Editor-in-Chief, 2009 – 2013
3. IEEE Transactions on Industry Applications – Guest Editor, Special Issue on “Electric Machines and Drives in Emerging Applications”, vol. 48, no. 6, November-December 2012.
4. IEEE Transactions on Industrial Electronics (USA) – Associate Editor, 2004 – present
5. IEEE Transactions on Energy Conversion (USA) – Editor, 2007 – present
6. IEE Proceedings – Electrical Power Applications (UK) – Member of the Editorial Board, 2005 – 2006
7. IET Electric Power Applications (UK) – Member of the Editorial Board, 2007 – 2010
8. IEEJ Transactions of Electrical and Electronic Engineering (Japan) – Member of the Editorial Advisory Board, 2006 – present.
9. International Review of Electrical Engineering (USA) – Member of the Editorial Board, 2005 – present.
10. European Power Electronics (EPE) Journal – Guest Editor, Special Issue on “Multiphase and Multi-Motor Drive Systems, vol. 14, no. 3, June-August 2004.
11. IEEE Transactions on Industrial Electronics – Guest Editor, Special Issue on “Multiphase Machines and Drives”, 2008.

2. 5 Učešće u izbornim komisijama

Purdue University, West Lafayette, Indiana, USA

(appointment of S.D. Sudhoff to a named Professorship) – 2014

Purdue University, West Lafayette, Indiana, USA

(appointment of D. Aliprantis to a tenured Associate Professor position) – 2013

Universite Lille 1 - Sciences et Technologies, Lille, France

(Habilitation a diriger des Recherches, Prof. X. Kestelyn) – 2012

Ben-Gurion University of Negev, Israel

(appointment of R. Rabinovici to a full Professorship) - 2012

University of Aberdeen, Scotland

(appointment of D.Jovcic to a Personal Chair) - 2012

Penn State Altoona University, Altoona, PA, USA

(appointment of M.Comanescu to Assoc. Professor) - 2011

University of Montenegro, Montenegro

(appointment of G.Joksimovic to a full Professorship) – 2011

University of Sheffield, UK

(appointment of J.B.Wang to a full Professorship) – 2010

University of Michigan, MI, USA
(appointment of H.Hofmann to a tenured Assoc. Prof. position) – 2009

Indian Institute of Science, Bangalore, India
(appointment of K.Gopakumar to a Full Prof. position) – 2008

Politecnico di Torino, Turin, Italy
(appointment of R.Bojoi to a tenured Assoc. Prof. position) – 2008

IEEE Power Electronics Society - Fellows Evaluation Committee, 2012, 2013, 2014

IEEE Industry Applications Society - Fellows Evaluation Committee, 2011, 2013, 2014

2. 6 Istraživački projekti finansirani izvan matičnog univerziteta

1. “Vehicle electrical systems integration”, EP/1038543/1 (consortium grant; PI at LJMU)
01 October 2011 – 30 September 2015
£ 333,141 (to LJMU; total grant value £ 3,752,606)
2. “Parallel-connected multi-drive systems with reduced number of inverter legs and independent vector control”, EP/C007395/1 (Principal Investigator)
01 December 2005 – 30 November 2007
£ 209,635
3. “A new concept for multidrive systems: Independent control of a set of motors supplied from a common inverter”, GR/R64452/01 (Principal Investigator)
01 June 2002 – 31 May 2005
£ 201,589
4. “Sensorless direct torque control of brushless doubly-fed reluctance machines”, GR/N34550/01 (Co-investigator; grant held at the University of Northumbria, Newcastle upon Tyne)
01 September 2000 – 31 August 2003

2. 7 Saradnja sa stranim univerzitetima

1. University of Malaya – Kuala Lumpur, Malaysia (Profs. Rahim and Hew)
2. Indian Institute of Science – Bangalore, India (Prof. K.Gopakumar)
3. University of Bologna, Italy (Profs. G.Serra, G.Grandi, D.Casadei)
4. University of Malaga, Spain (Dr. M.J.Duran)
5. University of Vigo, Spain (Dr. O.Lopez, Dr. A.Yepes)
6. University of Plzen, Czech Republic (Prof. Z.Peroutka)
7. Texas A&M University, College Station, Texas (Prof. H.A.Tolijat)
8. University of Lille, LSEP, Lille, France (Dr. E.Semail, Prof. A.Bouscayrol)
9. University of Seville, Seville, Spain (Dr. M.J.Duran, Prof. F.Barrero)
10. Politecnico di Torino, Turin, Italy (Dr. R.Bojoi, Dr. A.Cavagnino, Prof. F.Profumo, Prof. A.Boglietti)
11. University of Novi Sad, Novi Sad, Serbia & Montenegro (Prof. D.Kukolj, Dr. V.Vasic, Mr. Dj.Oros)
12. University of Belgrade, Belgrade, Serbia & Montenegro (Prof. S.N.Vukosavic, Prof. V.Vuckovic)
13. University of Gdansk, Gdansk, Poland (Prof. Z.Krzeminski)
14. Higher Technical School, Subotica, Serbia & Montenegro (Dr. J. Varga)
15. The University of Manchester (Prof. J.Milanovic, Dr. V.Levi)
16. University of Aberdeen (Prof. P.Vas)
17. University of Northumbria (Dr. M.G.Jovanovic)

2. 8 Predsedavanje sekcijama međunarodnih konferencija

2014	Dallas, TX	IEEE Ind. Elec. Soc. Annu. Meeting IECON
2014	Berlin, Germany	Int. Conf. on Electrical Machines
2014	Lappeenranta, Finland	EPE ECCE
2014	Istanbul, Turkey	IEEE Int. Symp. on Industrial Electronics
2014	Valencia, Spain	ElectrIMACS
2014	Manchester, UK	IET Power Electronics, Machines and Drives PEMD
2013	Vienna, Austria	IEEE Ind. Elec. Soc. Annu. Meeting IECON (two sessions)
2013	Madrid, Spain	Int. Conf. on Renewable Energy Research and Applications

2013	Lille, France	15 th European Conf. on Power Electronics and Applications EPE'2013
2012	Montreal, Canada	IEEE Ind. Elec. Soc. Annu. Meeting IECON (three sessions)
2012	Novi Sad, Serbia	Power Electronics and Motion Control EPE-PEMC ECCE Europe
2011	Melbourne, Australia	IEEE Ind. Elec. Soc. Annu. Meeting IECON
2011	Birmingham, UK	14 th European Conf. on Power Electronics and Applications EPE'2011
2011	Cergy-Pontoise, France	Electrimacs 2011
2011	Torremolinos, Spain	III Int. Conf. On Power Eng., Energy and Electrical Drives 2011
2010	Phoenix, AZ	IEEE Ind. Elec. Soc. Annu. Meeting IECON
2010	Lille, France	IEEE Vehicle Power and Propulsion Conference VPPC
2010	Vina del Mar, Chile	IEEE Int. Conf. on Industrial Technology ICIT
2009	Porto, Portugal	IEEE Ind. Elec. Soc. Annu. Meeting IECON
2009	Barcelona, Spain	13 th European Conf. on Power Electronics and Applications EPE'2009
2008	Orlando, FL	IEEE Ind. Elec. Soc. Annu. Meeting IECON (three sessions)
2008	Cambridge, UK	IEEE Int. Symp. on Industrial Electronics ISIE
2007	Taipei, Taiwan	IEEE Ind. Elec. Soc. Annu. Meeting IECON (two sessions)
2007	Aalborg, Denmark	12 th European Conf. on Power Electronics and Applications EPE'2007
2006	Paris, France	IEEE Ind. Elec. Soc. Annu. Meeting IECON (three sessions)
2006	Belgrade, Serbia	6 th Int. Symposium Nikola Tesla
2006	Portoroz, Slovenia	Int. Conf. Power Elec. and Motion Control EPE-PEMC
2006	Jeju, Korea	IEEE Power Elec. Spec. Conf. PESC'06 (three sessions)
2005	Novi Sad, Serbia	XIII Symposium on Power Electronics Ee'05
2005	Dresden, Germany	11 th European Conf. on Power Electronics and Applications EPE'2005
2005	San Antonio, TX, USA	IEEE Int. Electric Machines and Drives Conf. IEMDC'05
2004	Aachen, Germany	IEEE Power Elec. Spec. Conf. PESC'04
2003	Roanoke, Virginia, USA	IEEE Annual Meeting of the Ind. Elec. Society IECON'2003
2003	Toulouse, France	10 th European Conf. on Power Electronics and Applications EPE'2003
2003	Acapulco, Mexico	IEEE Power Elec. Spec. Conf. PESC'03
2002	Cavtat, Croatia	Int. Conf. Power Elec. and Motion Control PEMC'02
2001	Vancouver, Canada	IEEE Power Elec. Spec. Conf. PESC'01
2001	Graz, Austria	9 th European Conf. on Power Electronics and Applications EPE'2001
2001	Swansea, UK	Universities Power Engineering Conf. UPEC
2001	Novi Sad, Yugoslavia	XI Symposium on Power Electronics Ee'01
2000	Rome, Italy	IEEE Ind. Appl. Society Annual Meeting IAS'2000
1999	Lausanne, Switzerland	8 th European Conf. on Power Electronics and Applications EPE'99
1999	Leicester, UK	Universities Power Engineering Conference UPEC
1998	Edinburgh, UK	Universities Power Engineering Conference UPEC
1997	Novi Sad, Yugoslavia	IX Symposium on Power Electronics Ee'97
1997	Manchester, UK	Universities Power Engineering Conference UPEC
1996	St. Nazaire, France	Electrimacs'96
1995	Novi Sad, Yugoslavia	VIII Symposium on Power Electronics Ee'95
1991	Zagreb, Croatia	"36 th Annual Meeting of Yugoslav Assoc. for Reg., Elec. Measurement Automation JUREMA-36"
1989	Cairo, Egypt	"Middle East Power System Conference MEPCON'89"

3. DOPRINOSI RAZVOJU USLOVA NAUČNO-ISTRAŽIVAČKOG RADA

3.1 Kratki kursevi i seminari

1. Visiting Professor, University of Malaya, Kuala Lumpur, Malaysia, June 2013
2. "Multiphase fault-tolerant variable-speed drives", University of Texas at Dallas, TX, 2011.
3. Visiting Professor, University of Seville, Seville, Spain (one week stays): May 2008, May 2009, June 2010.
4. "Trouble-Shooting, Maintenance and Protection of AC Electric Motors and Drives", a two-day course; Kuala Lumpur, Singapore, Brisbane, Perth, July 2006.
5. "Energy Efficient AC Drives: A Practical Guide for Engineers", a two day course; Kuala Lumpur, July 2004.
6. "Energy Efficient AC Drives: A Practical Guide for Engineers", a two day course; Hong Kong, Kuala Lumpur, Singapore, July 2002.
7. "High Performance AC Drives", a three day course; Hong Kong, Kuala Lumpur, July 2001.

8. "High Performance AC Drives", a three day course; Liverpool, June 1999.
9. "Introduction to High Performance AC Drives", one-day course; Liverpool, May 1998 and May 1997.
10. "Power Electronics: Devices, Circuits and Applications", one day course; Liverpool, 1997 and July 1996.

3. 2 Mentorstvo (PhD) (prvi mentor, osim gde je prikazano drugačije)

1. M.Sokola, "Vector control of induction machines using improved machine models" (Start date: Oct. 1994; Completion date: June 1998).
2. Y.W.Liao, "Self-excitation and constant flux operation of induction generators in variable-speed wind-electricity generation by means of controlled static VAR compensators" (Start date: Dec. 1994; Completion date: April 1999).
3. M.Wang, "Parameter variation effects in sensorless vector controlled induction machines" (Start date: Oct. 1995; Completion date: Sept. 1999).
4. Z.Ibrahim, "Fuzzy logic control of PWM inverter-fed sinusoidal permanent magnet synchronous motor drives" (Start date: Oct. 1995; Completion date: Oct. 1999).
5. T.Pham-Dinh, "Direct torque control of induction machines considering the iron losses" (Start date: January 1999; Completion date: April 2003).
6. M. Jones, "A novel concept of series connected multi-phase, multi-drive systems" (Start date: September 2001; Completion date: April 2005).
7. A.Iqbal, "Modelling and control of series-connected five-phase and six-phase two-motor drives" (Start date: June 2002; completion date: December 2005)
8. A.Lamine, "Vector control of induction machines considering the stray load losses" (Start date: March 2003; completion date: September 2006)
9. D.Dujic, "Development of pulse-width-modulation techniques for multi-phase and multi-leg voltage source inverters" (Start date: April 2006; completion date: October 2008)
10. I.N.Satiawan, "Space vector PWM techniques for open-end winding multiphase motor drives", (Start date: October 2008; completion date: August 2012; 2nd supervisor).
11. O.Dordevic, "PWM strategies for multilevel multiphase ac drives", (Start date: December 2009; completion date: April 2013; 2nd supervisor).
12. N.Bodo, "PWM strategies for open-end winding multiphase drives", (Start date: November 2009; completion date: May 2013).
13. H.S.Che, "Contributions to control of an asymmetrical six-phase induction machine", (Start date: April 2011; completion date: June 2013; joint PhD with the University of Malaya, Kuala Lumpur, Malaysia).
14. C.S.Lim, "Model predictive control of multi-leg inverter supplied drives", (Start date: April 2011; completion date: June 2013; joint PhD with the University of Malaya, Kuala Lumpur, Malaysia).
15. F.Patkar, "Multilevel voltage source inverter control for multiphase drives with an even phase number (Start date: December 2009; Completion date: November 2013).
16. J.Yu, "Sensorless direct torque control of brushless doubly-fed reluctance machines", University of Northumbria (Start date: September 2000; Completion date: April 2004; 2nd supervisor)
17. I.Subotic, "Development of integrated on-board battery chargers for EVs incorporating multiphase machines and power electronics" (Start date: October 2011; Completion date: August 2015).
18. M.Darijevic, "Modulation techniques for multilevel multiphase open-end drives" (Start date: May 2012; 2nd supervisor).
19. M.Zabaleta, "Permanent magnet multi-phase machines for fault-tolerant wind energy applications" (Start date: June 2014, part-time).
20. I.Zoric, "Multiphase induction generators for wind energy applications", (Start date: June 2014; 2nd supervisor).

3. 3 Pedagoški rad

External PhD Thesis Examiner Appointments:

H.M.G. Jimenez, "Extension of finite-control set model-based predictive control techniques to fault-tolerant multiphase drives: analysis and contributions", University of Malaga, Malaga, Spain, 2015.

T.H.M.Al-Mhana, "Investigation of a three-phase forced commutation series capacitor operating with variable-voltage and variable-frequency systems", Newcastle University, Newcastle, UK, 2015.

Z.Liu "Probabilistic assessment of unbalance in distribution networks based on limited monitoring", The University of Manchester, Manchester, UK, 2014.

S.Kallio “Modelling and parameter estimation of double-star permanent magnet synchronous machine”, Lappeenranta University of Technology, Lappeenranta, Finland, 2014.

S.Jordan “Multiphase synchronous generators for dc aircraft power systems”, The University of Manchester, UK, 2013.

H.Wu “Performance comparisons of doubly-fed machines”, University of Northumbria, Newcastle upon Tyne, UK, 2013.

R.Montague “Control of drive trains incorporating magnetic gears”, University of Sheffield, UK, 2012.

A.Yepes “Digital resonant current controllers for voltage source converters”, University of Vigo, Vigo, Spain, 2011.

M.Jamil “Novel design of permanent magnet motor”, University of Sheffield, UK, 2011.

N.Strachan “Investigation of dynamics, control, power quality and fault response of a MW-size wind generator with integrated storage”, University of Aberdeen, Scotland, 2010.

S.V.Bhangale “Direct torque controlled high performance induction motor drive”, Malaviya National Institute of Technology, Jaipur, India, 2010.

M.A.B.M. Radzi “Switched capacitor active power filter with new control algorithms”, University of Malaya, Kuala Lumpur, Malaysia, 2010.

I.Vincente “Sensorless control of induction motor drives for railway traction applications”, The University of Manchester, UK, 2009.

Z.Sun “Control and fault detection of fault-tolerant permanent magnet machines”, University of Sheffield, UK, 2009.

O.Lopez “Space vector pulse-width-modulation for multilevel multiphase voltage-source inverters”, University of Vigo, Vigo, Spain, 2009.

C.Gerada “Dynamic field models of electrical machines and their control systems applied to performance enhancement and fault tolerance”, University of Nottingham, Nottingham, UK, 2005.

J.J.Rens: “Active vibration control system for reciprocating air-compressors”, University of Sheffield, Sheffield, UK, 2003.

P.Jinupun: “Novel excitation schemes for switched reluctance motor drives”, University of Hertfordshire, Hatfield Campus, 2003.

A.Benaoruche: “The contribution of enhanced generator control to power system stability”, UMIST, Manchester, UK, 2003.

G.Turl: A synchronised multi-motor control system using hybrid sensorless induction motor drives”, University of Nottingham, UK, 2002.

W.Jamal: “Application of modern control techniques in ac speed drive system”, University of Wales Swansea, UK, 2001.

B.Baha: “Control and modelling of quasi-resonant converters”, University of Brighton, UK, 2001.

K.Thompson: “Position estimation in a switched reluctance motor using recursive least squares”, University of Newcastle upon Tyne, UK, 2000.

M.Z. Abdulkarim: “Simulation study of cycloconverter fed induction motor drive”, University of Roorkee, Roorkee, India, 1998.

I.Colak: “Mixed-frequency testing of induction machines using converters”, The University of Aston in Birmingham, Birmingham, 1994.

J.Roe: “Power efficiency in hydraulic systems using a variable speed prime mover”, University of Bath, Bath, UK, 2002.

3. 4 Medunarodna saradnja

1. “Advanced power electronic solutions for variable-speed multiphase ac motor drives”, Qatar National Research Fund Grant NPRP 4-152-2-053, 2012-2015
\$ 286,776 (value to LJMU; total value just over \$ 1,000,000)
Partners: Qatar University and Texas A&M University at Qatar

2. “Permanent magnet multi-phase machines for fault-tolerant wind energy applications”, Ingeteam (Spain) Grant 2014-2017 Euro 15,000 plus tuition fees for a part-time PhD student at home-EU level. Partner: Ingeteam.
3. “Restructuring and updating power electrical engineering study at the University of Sts Cyril and Methodius, Skopje, Macedonia”, TEMPUS Project CD_JEP-17016-2002, 01 September 2003 – 31 August 2006, (total value Euro 403,000).
4. Commonwealth Fellowship for Dr Mohan Aware, funded through the British Council.

4. ORGANIZACIJA NAUČNOG RADA

4.1 Članstvo u organizacionim i programskim odborima međunarodnih konferencija.

International conferences:

1. IEEE Int. Symp. Ind. Electronics ISIE, Buzios, Brazil 2015 – Electric Machines and Drives Topic Co-Chair
2. IEEE IECON, Dallas, TX, 2014 – Special Session Co-Chair
3. ElectrIMACS, Valencia, Spain, 2014 – Topic TT1 Co-Chair
4. ICRERA 2013, Madrid, Spain, 2013.
5. European Conf. on Power Electronics and Applications (EPE), 2013, Lille, France (Topic Chair for Topic 11: “Adjustable Speed Drives”).
6. 15th Power Electronics and Motion Control Conference and Exposition EPE-PEMC 2012 ECCE Europe, 2012, Novi Sad, Serbia (Technical Programme Chair)
7. European Conf. on Power Electronics and Applications (EPE), 2011, Birmingham, UK, (Topic Chair for Topic 11: “Adjustable Speed Drives”).
8. ElectrImacs 2011, Paris, France (Topic Chair for Topic 1).
9. III Int. Conf. on Power Eng., Energy and Electrical Drives PowerEng 2011, Torremolinos, Spain.
10. IEEE-ICIT 2010, Vina del mar, Chile (a special session organiser).
11. IEEE IECON 2009, Porto, Portugal (Track Co-Chair for “Electric Machines and Drives”).
12. European Conf. on Power Electronics and Applications (EPE), 2009, Barcelona, Spain (Topic Chair for Topic 11: “Adjustable Speed Drives”).
13. Int. Conf. on Renewable Energy and Power Quality (ICREPO), 2009, Valencia, Spain.
14. IEEE Int. Symp. on Industrial Electronics ISIE, Publicity Chair, 2008, Cambridge, UK.
15. IEEE Mediterranean Electrotechnical Conf. MELECON, 2008, Ajaccio, France
16. European Conf. on Power Electronics and Applications (EPE), 2007, Aalborg, Denmark (Topic Chair for Topic 11: “Adjustable Speed Drives”).
17. Power Electronics and Motion Control Conf. EPE-PEMC, Portoroz, Slovenia, 2006.
18. European Conf. on Power Electronics and Applications (EPE), 2005, Dresden, Germany (Topic Chair for Topic 11: “High Performance Drives”).
19. The 5th IASTED Int. Conf. on “Power and Energy Systems EuroPES 2005”, 2005, Benalmadena, Spain.
20. 9th Spanish Portuguese Congress on Electrical Engineering 9CHLIE, Marbella, Spain, 2005.
21. Power Electronics and Motion Control Conf. EPE-PEMC, Riga, Latvia, 2004.
22. IEEE Int. Conf. on Industrial Technology ICIT’03, 2003, Maribor, Slovenia.
23. European Conf. on Power Electronics and Applications (EPE), 2003, Toulouse, France (Topic Chair for Topic 9: “Motor Drives”).
24. IEEE Power Elec. Spec. Conf. PESC 2003 (Member of the Programme Committee and Topic Chair for “Integrated Diagnostics / Intelligent Systems”), Acapulco, Mexico.
25. Power Electronics and Motion Control PEMC 2002, Cavtat & Dubrovnik, Croatia.
26. IEEE Power Elec. Spec. Conf. PESC 2001 (Member of the Programme Committee and Topic Chair for “Integrated Diagnostics / Intelligent Systems”), Vancouver, Canada.
27. European Conf. on Power Electronics and Applications (EPE), 2001 Graz, Austria.
28. E=TeM², Liege, Belgium, March 2001
29. European Conf. on Power Electronics and Applications (EPE), Lausanne, Switzerland, 1999.
30. IEEE Int. Symp. on Industrial Electronics ISIE’99, Bled, Slovenia, 1999.

National conferences with international participation:

1. XVth Symposium on Power Electronics, Novi Sad, Yugolsavia, 2009.
2. XIVth Symposium on Power Electronics, Novi Sad, Yugolsavia, 2007.
3. XIIIth Symposium on Power Electronics, Novi Sad, Yugolsavia, 2005.
4. Int. Universities Power Engineering Conference, Bristol, 2004.
5. Int. Universities Power Engineering Conference, Thessaloniki, Greece, 2003.
6. XIIth Symposium on Power Electronics, Novi Sad, Yugolsavia, 2003.
7. Int. Universities Power Engineering Conference UPEC, Stafford, UK, 2002.
8. XIth Symposium on Power Electronics, Novi Sad, Yugolsavia, 2001.
9. Universities Power Engineering Conference UPEC, Swansea, UK, 2001.
10. Xth Symposium on Power Electronics, Novi Sad, Yugoslavia, 1999.
11. Universities Power Engineering Conference UPEC, Belfast, N.Ireland, 2000.
12. Universities Power Engineering Conference UPEC, Leicester, UK, 1999.
13. Universities Power Engineering Conference UPEC, Edinburgh, UK, 1998.
14. Universities Power Engineering Conference UPEC, Manchester, UK, 1997.
15. Universities Power Engineering Conference UPEC, Iraklio, Crete, Greece, 1996.

4.2 Formiranje grupe/centra

Osnivač istraživačke grupe Electric Machines and Drives na LJMU 1992 godine i njen vodja od osnivanja.

5. CITIRANJE

5.1 Ukupan broj citata (SCOPUS):

- 2.1 Ukupan broj citata _3610__
- 2.2 Broj autocitata _669__
- 2.3 Broj citiranih radova sa ISI liste __244_