

## НАСТАВНО-НАУЧНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Наставно-научно веће Електротехничког факултета Универзитета у Београду на својој 772. седници одржаној 25.3.2014. године, именовало нас је за чланове Комисије за избор др Владимира Терзије у звање гостујућег професора. Након прегледа поднесеног материјала имамо част да Наставно-научном већу поднесемо следећи

### ИЗВЕШТАЈ

#### Биографски подаци

Др Владимир Терзија је дипломирао на Електротехничком факултету Универзитета у Београду 1988. године. Магистарске студије из електротехнике завршио је 1993. године, на Енергетском одсеку Електротехничког факултета Универзитета у Београду, под руководством проф. Миленка Ђурића, након чега је уписао докторске студије на истом одсеку. Руковођен проф. Миленком Ђурићем, 1997. године брани докторску тезу под називом „Естимација улазних величина дигиталних фреквенцијских релеја“ и стиче назив доктора електротехничких наука. Резултате тезе је са успехом публиковао у низу реномираних светских часописа.

Након успешно одбрањене докторске тезе, др Терзија заснива радни однос са Електротехничком факултету Универзитета у Београду, на којем 1997. године бива изабран у звање доцента. Активно учествује у извођењу наставе на дипломским и постдипломским студијама. Истовремено активно ради на истраживачким пројектима финансираних од стране Министарства за Науку, као и Електропривреде Србија. Захваљујући завидном броју објављених радова у међународним часописима, 1999. године бива награђен Хумболтовом стипендијом, тако да постаје Humboldt Fellow и свој научно-истраживачки рад наставља на Универзитету Сарбрикен у Немачкој. Те године објављује 24 научна рада и склапа радни однос са реномираном светском компанијом АББ у Ратингену код Дизелдорфа у Немачкој. Пуних шест година ради на проблемима станичне аутоматизације и заштите и истовремено публикује радове у реномираним светским часописима, захваљујући којима добија понуду од Универзитета у Манчестеру да постане редовни професор. Прихвативши понуду, из Немачке прелази у Уједињено Краљевство у Манчестер, где и сада ради и води свој истраживачки тим од 10 доктораната, 3 постдокторанта и више магистраната.

Кључне теме стручног интересовања и рада др Терзије су у домену електроенергетских система, али са наглашеним мултидисциплинарним карактером. У том смислу су препознатљиви периоди његовог истраживања у којима је интензивно примењивао знања из области Дигиталне оградe сигнала, као и Теорије естимације и Оптималног филтрирања. До сада се претежно бавио прелазним процесима у електроенергетским мрежама и последних неколико година своје истраживање заснива на примени теорије графова, генеришући низ препознатљивих резултате у области превенције распада електроенергетских система (познатих као blackouts). Већину својих научних резултата је проверио у пракси. На пример, своје нове приступе естимацији фреквенције мреже је тестирао у јединственим експериментима пробног паралелног рада електро-енергетског система Србије (ЕКЦ), Румуније и Бугарске (експерименти из 1993. и 1994. године). Својим новим приступом је постигао у то време највећу прецизност у мерењу системске фреквенције. Добијени резултати су били директно искоришћени у сврху оптималног вођења система и разумевања поступка синхронизације мрежа балканских држава.

У последњих неколико година др Терзија је одржао низ семинара и предавања по позиву широм света. Изабран је у звање гостујућег професора на University of Malaya (Kuala Lumpur, Malaysia) и Shandong University (Jinan, China). Активни је Associate Editor of IEEE Transactions of Power Delivery. Активни је Senior Member IEEE и Humboldt Fellow. Као недавно на Shandong University (Jinan, China) промовисани Taishan Scholar, привилегован је да води истраживачки тим од 8 истраживача, лоциран у Јинану, граду са највећим универзитетом у Кини.

Др Терзија је данас један од водећих истраживача у Уједињеном Краљевству из области електроенергетских система, у улози руководиоца низа пројеката од стратешке важности за државу у којој сада живи и ради. Од 2006. године је био учесник у пројектима чија је укупна вредност скоро 30 милиона британских фунти, од чега је скоро 8 милиона било додељено лично њему. До сада је успешно извео 10 доктораната и тренутно води 10 нових докторских кандидата.

Од раскидања радног односа са Електротехничким Факултетом у Београду, др Терзија није прекидао своју сарадњу са својом матичном Катедром на којој је поникао.

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## Одзив на радове

Радови др Владимира Терзије су цитирани око 2000 пута.

## Патенти

1. Intentional Controlled Islanding (Method A); patent filed in China (CN 102244394) and based on the following paper published:

L.Ding, F.Gonzalez-Longatt, P.Wall, and V.Terzija, "Two-Step Spectral Clustering Controlled Islanding Algorithm", IEEE Trans. on Power Systems, VOL. 28, NO. 1, FEBRUARY 2013, pp. 75-84, DOI: 10.1109/TPWRS.2012.2197640, 2012

The patent owners are L.Ding and V.Terzija

The final patent submission has not been accomplished, since my "new" Chinese name (吴乐迪 – Wu Ledi) has to be added to the patent proposal.

2. Intentional Controlled Islanding (Method B); patent application is with the patent agent (Mewburn Ref: NJH/MP6718852). The methodology has not yet been published.

The patent owners are V.Terzija, J.Q.Tortos and P.Wall

3. Universal electrical arc model; patent is with the UMIP (University of Manchester Intellectual Property)

The patent owners are V.Terzija, A.Rajpakse (Univ. of Manitoba); the shared patent rights between Manchester and Manitoba.

## Професионалне активности

- Предавања по позivu: предавања на водећим светским универзитетима, укључујући MIT, Berkeley, Stanford, Georgia Tech... (САД), Универзитет у Београду, низ универзитета у Европи, Јапану, Кореји и Кини.
- EU FP7 Cost IC0806, Management Committee member, 2009-2013;  
[http://www.cost.eu/domains\\_actions/ict/Actions/IC0806](http://www.cost.eu/domains_actions/ict/Actions/IC0806)
- EPSRC Power Network Research Academy Management Committee member, 2008-2015;  
<http://gow.epsrc.ac.uk/NGBOViewGrant.aspx?GrantRef=EP/F037686/1>
- Member of the Stakeholder Committee of the ICOEUR project (EC, FP7 activity); <http://icoeur.eu/index.php>
- Member of Technical Committees of a number of IEEE/Cigre/IET conferences
- Convener of the Cigre WGB5.14 "Wide Area Protection and Control Technologies (leading over 50 World key experts in the field)
- Editorship of prestigious journals
  - IEEE Transactions on Power Delivery, Associate Editor
  - In 2006 awarded as "**Significant Reviewer**" recognized by the IEEE Power Engineering Society and the following prestigious journals:
    - o IEEE Trans. on Power Systems,
    - o IEEE Trans. on Power Delivery,
    - o IEEE Trans. on Energy Conversion
    - o IEEE Trans. on Smart Grid
    - o IEEE Trans. on Sustainable Energy
- Invitations to address major international conferences as a plenary keynote speaker
  - ICTES 2007, The IET Conference, 20-22 December 2007, Chennai, India
  - IEEE ISGT December 2011
  - 2013 International Conference on Smart Grid and Clean Energy Technologies, 11-13 October 2013 Kuala Lumpur, Malaysia

## Руковођење научним и развојним пројектима

Total value: £27.9M (£7.127M assigned for Terzija)

1. PI, The location and analysis of arcing faults on overhead transmission lines using synchronized measurement technology; 10/2007-10/2011; Doctoral Training Award, The University of Manchester; £120k
2. PI, Future Wide Area Monitoring, Protection and Control System in British and Irish power networks; 04/2008-04/2012; National Grid, Scottish Power and SSE (£241k)
3. PI, Switching Transients in Large offshore Wind Farms; 07/2008-07/2013; Iranian Government; £80k

4. PI, Real-time Frequency-based Corrective Control of Future Networks - FreCon; 11/2009-11/2012; Engineering and Physical Sciences Research Council (EPSRC) project No EP/G055211/1; £0.42M;  
This is the **largest “EPSRC responsive mode” grant** awarded to the EEPs Group ever.
5. PI, Monitoring of Power Quality Indices and Assessment of Signal Distortions in Wind Farms; 10/2008-10/2012; Indonesian Government; (£100k)
6. Co-I, SUPERGEN 1 Renewal Core - FlexNet: Renewal of the Supergen consortium on Future Network Technologies; 10/2007-03/2012; EPSRC project No EP/E04011X/1; £6.8M, £200k assigned for Terzija
7. PI, Development of Numerical Algorithm for Ferroresonance Detection and Elimination; 07/2009-present; Malaysian Government; £100k
8. PI, Early Frequency Instability Predictor Based on Synchronised Wide Area Measurements – E-FIP; 10/2009-03/2013; EPSRC PNRA – National Grid UK project; £121k
9. PI, Future System Integrity Protection Schemes in GB Network; 07/2010-present; Alstom-Grid UK; £85k
10. PI, Protection of Series Compensated Transmission Lines Based on SMT; 10/2010-present; EPSRC PNRA – National Grid UK project; £121k
11. PI, Chair in Power System Engineering, 07/2006-07/2011, EPSRC project No EP/E009735/1; £0.82M
12. Co-I, Transformation of the Top and Tail of Energy Networks; 10/2011-10/2015; EPSRC project No EP/I031707/1; £4.1M, £120k assigned for Terzija
13. PI, Advanced Communication and Control for the Prevention of Blackouts (ACCEPT); 01/2014-01/2016; EPSRC project No EP/K036173/1; £0.98M, £600k assigned for Terzija;  
This is the **largest awarded EPSRC grant in the history of the EEPs Group**, in which Manchester is the leading institution. This project involves Imperial, Strathclyde and 3 IITs from India
14. PI, Co-ordinated protection against frequency instabilities in future low inertia power systems (CLIP Project); 10/2013-10/2016; National Grid, Scottish Power, SSE, Alstom-Grid and PPC; £0.8M
15. Co-I, Manchester-Liverpool advanced grid-scale energy storage R&D facilities; 10/2013-10/2016; EPSRC project Great Technologies Capital Call: Grid-scale Energy Storage; £3.2M, £1.2M assigned for Terzija (a purchase of a new Real Time Digital Simulator)
16. Co-I, HVDC energy connection modelling for transmission to offshore resources (HECTOR); 04/2011-04/2012; EPSRC Knowledge Transfer Account and Siemens UK; £120k, £60k assigned for Terzija
17. PI, Development of “utility grade” dynamic load models for power system simulations; 02/2013-09/2013; EDF France; £25k
18. PI, Estimation of load response for smart protection against system frequency instability; EPSRC iCASE (industrial CASE) award and E.ON, 10/2013-10/2017; £120k
19. PI, SEL (USA) equipment and software donation; 2013; SEL; £45k
20. PI, Comparison between DiGSILENT and Sincal and Siemens software donation (a full version of the Sincal software); £10k
21. PI, Development of practical power system intentional controlled islanding and restoration solutions; 02/2013-09/2014; National Grid, UMIP and Alstom-Grid; £321k
22. Co-I, The use of telecommunications and GPS technology for the real-time wide-area monitoring and control of power systems; 02/2012-02/2014; Cyprus Research Promotion Foundation; 140k Euro, 15k assigned for Terzija
23. Co-I, Protection and Control roadmap; 04/2013-04/2014; National Grid; £24k, £8k assigned for Terzija
24. PI, Development of wide area protection and control algorithms for the Smart Zone scheme in the Humber group; 10/2011-10/2015; National Grid; £195k
25. Co-I, Control strategies for multi-terminal VSC HVDC transmission, 10/2011-03/2015; National Grid; £374k, £125k assigned for Terzija
26. PI, Development of a Phasor Measurement Unit with advanced functionality for the Smart Zone scheme in the Humber group; 10/2012-10/2013; National Grid; £26k
27. PI, Development of the National Grid Wide Area Monitoring system visualisation tool – Phase I; 10/2012-03/2013; National Grid; £40k
28. PI, Dynamic Response of Loads – Feasibility Study; 03/2012-06/2012; Electricity North-West – ENW; £9k
29. Co-I, Visualisation of Real Time System Dynamics using Enhanced Monitoring (VISOR); 04/2014-03/2017; Scottish Power and Ofgem; £7.46M, £0.7M assigned for Terzija (submitted)
30. Co-I, Components and Topologies for High Security, Cost-Effective Offshore DC Grid; EPSRC managed call; £1.2M, £210k assigned for Terzija
31. PI, Development of the National Grid Wide Area Monitoring system visualisation tool – Phase II; 10/2013-10/2014; National Grid; £200k

- Member of the following grant awarding bodies:

- EPSRC, UK
- PNRA, UK
- QNRF, Qatar
- KACST, Kingdom of Saudi Arabia
- Ministry of Science and Technological Development, Serbia
- STDF, Egypt



## Награде

- Taishan Scholar, 09/2013-09/2018; China, Shandong Province, Jinan, Shandong University, 2 Million Yuan award for 5 years research
- Visiting Professor at the Shandong University, Jinan, China (since 2012)
- Visiting Professor at the University of Malaya, Kuala Lumpur, Malaysia (since 2011)
- Humboldt Research Fellow, Alexander von Humboldt Foundation Research Fellow (Hildegard Mayer Prize; selected two engineers from the whole world in 1999), University of Saarland, Saarbruecken, Germany, 1999-2000
- A conference paper selected for the best papers session: S.Padmanabhan, V.Terzija, "Line Parameter-Free Fault Location Algorithm for Series Compensated Transmission", 2013 IEEE Power and Energy Society General Meeting, July 2013
- DAAD Scholarship Holder, DAAD (German Academic Exchange) Scholarship, University of Kaiserslautern, Kaiserslautern, Germany, 1992-1993
- EDF Energy 2nd Prize for The Best Paper at the conference: V.Terzija, R.Ciric, H.Nouri, "Fault Currents Calculation Using Hybrid Compensation Method And New Arc Resistance Formula", Proc. of 39th Int. Universities Power Engineering Conference (UPEC), ISBN: 1-86043-365-0, 6-8. Sep. 2004
- The best tutorial at the conference: "Long Arc In Free Air: Testing, Modelling and Parameter Estimation: Part I / Part II", 180 minutes tutorial, Proc. of 9th Int. IEEE Conf. on Harmonics and Quality of Power, ICHQP, Orlando, FL USA, Oct. 1-4, 2000. pp. 404-409.
- The best paper in the session: V.Terzija, D.Markovic, "Symmetrical Components Estimation Through Nonrecursive Newton Type Numerical Algorithm", Proceeding of IEEE Budapest PowerTech99 Conference, Paper BPT99-225-16, Budapest, Aug. 1999. (paper directly accepted for the publication in IEEE Trans. On Power Delivery)
- "Significant Reviewer" recognised by the IEEE Power Engineering Society, September 2006
- Goethe Institute, Göttingen, Germany, School of German Language, 2 months course, 1992
- Goethe Institute, Freiburg, Germany, School of German Language, 2 months course, 1990

## Закључак и предлог

Из изложеног се види да кандидат, др Владимир Терзија, професор на Универзитету у Манчестеру, Уједињено Краљевство, испуњава све услове Закона о високом образовању (члан 66) и Статута Електротехничког факултета, Универзитета у Београду, (чланови 17 и 102), за избор у звање гостујући професор.

Др Владимир Терзија има докторат наука, коаутор је 2 објављене књиге, 102 рада објављена у међународним часописима, 180 излагање на међународним научним скуповима објављено у целости и низ предавања по позиву на реномираним светским универзитетима. Од раскидања свог радног односа са ЕТФ у Београду, др Владимир Терзија негује непрекидну и значајну сарадњу са Катедром за електроенергетске системе Електротехничког факултета.

Полазећи од анализе целокупне наставне и научноистраживачке активности др Владимира Терије, обима и квалитета његовог рада, а посебно стручног рада из области електроенергетских система, те његовог ангажовања и жеље да их пренесе студентима и колегама у Србији, предлажемо Наставно-научном већу Електротехничког факултета, Универзитета у Београду, да га изабере у звање гостујући професор.

У Београду, 10.04.2014.

Чланови комисије:

др Никола Рајаковић, ред. проф.

др Иван Шкоклјев, ред. проф.

др Драган Тасић, ред. проф.