ИЗБОРНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА
УНИВЕРЗИТЕТА У БЕОГРАДУ

Изборно веће Електротехничког факултета Универзитета у Београду на својој 825. седници од 04.12.2018. године нас је именовало за чланове Комисије за избор др Владимира Терзије у звање гостујућег професора. Проучили смо материјал који нам је био на располагању и част нам је да Изборном већу поднесемо следећи

И З В Е Ш Т А Ј

Биографски подаци

Др Владимир Терзија је рођен 24.09.1962. године у Доњим Бараћима (Република Српска). Електротехнички факултет у Београду завршио је 1988. године, где је магистрирао 1993. и докторирао 1997. године. Од 1997. до 1999. године је радио као доцент на истом факултету. Као стипендиста *Humboldt* фондације провео је неколико година на угледним академским институцијама у Немачкој. Осим тога, више од пола деценије је провео радећи у индустрији, у компанији ABB у Немачкој, као експерт из области аутоматизације и заштите средњенапонских мрежа. Тренутно је редовни професор на Универзитету у Манчестеру у Великој Британији. Тренутно води велики број великих пројеката који финансирају Влада Велике Британије, Индија, Кина и Европска Унија. Истраживачки тим којим руководи је састављен од 10 докторанада, пет постдокторанада, неколико академских гостију и бројних студената дипломаца. Више од деценије активно сарађује са реномираним академским установама у Кини, где тренутно води свој истраживачки тим на Shandong University (Jinan). За научна достигнућа остварена кроз ту сарадњу недавно је награђен наградом Qilu Friendship Award. Аутор је преко 300 стручних радова и неколико књига монографског карактера. Известилац је CIGRE радних група *Wide Area Protection and Control Technologies* и *New Challenges for Frequency Protection*. Активни је члан и неколико радних група на нивоу организације IEEE Такође је главни уредник реномираног међународног часописа *International Journal of Electrical Power & Energy Systems* (*Elsevier*).

На почетку своје научно-истраживачке каријере своје истраживање је био посветио развоју дигиталних релеја. Тако је развио серију нових нумеричких алгоритама за мерење фреквенције и унапређење фреквенцијске заштите. Посебно су значајни нови концепти адаптивних приступа фреквенцијској заштити и управљању фреквенције мреже, којима је отворио пут решењима прикладним будућим мрежама са великим бројем обновљивих извора повезаних на мрежу преко инверторских станица. Осим тога, утемељио је нови макроскопски приступ математичком моделовању електричног лука, до којега је дошао комбиновањем знања из математичке анализе, дигиталне обраде сигнала, теорије музике и физике плазме. Применом новог приступа је значајно унапредио ефикасност дистантне заштите надземних водова. Предложена нова решења из области заштите мреже су данас примењена у дизајну модерних дигиталних релеја светских и домаћих произвођача. Последњу деценију свога рада је посветио развоју системског надзора, управљања и заштите (*Wide Area Monitoring, Protection and Control*). Као препознатљиви стручњак светскога ранга из те области, тренутно је руководилац низа пројеката, како у Великој Британији, тако у Кини, Индији и Европској Унији. Своју најновију инстраживачку знатижељу испољава кроз истраживање којим обухвата паралелно функционисање различитих мрежа: електроенергетских, гасовода, термо-енергетских, итд. У том погледу се фокусира на

оптимално коришћење нове сензорске и телекомуникационе технологије, суперкомпјутера и алгоритама за процесирање велике количине података.

Др Владимир Терзија је руководио израдом 18 докторских дисертација. Аутор је или коаутор 6 монографија, 148 радова у међународним часописима и 169 радова на међународним конференцијама. Има 4 патента. На основу података који се налазе у бази података Scopus, на дан 19.11.2018. године, 257 публикација је цитирано укупно 3803 пута, h-индех: 30. Одржао је велики број предавања по позиву на следећим универзитетима: Berkeley, MIT, Stanford University, North China Electric Power University, University of Malaya, Kuala Lumpur, Malaysia, Shandong University, Wroclaw University, као и на Унивезитету у Београду. На Електротехничком факултету у Београду је ангажован на предмету Поузданост електроенергетских система на докторским студијама и коментор је једне докторске дисертације.

Научно-стручни радови

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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

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.

4. **案件名称** (Patent title)：风电场参与电网调频的智能惯量响应控制方法及系统 (Intelligent wind farm inertial control method for grid frequency regulation)

申请号 (Application number)：201810878498X

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申请人 (Applied organization)：**山**东大学 (Shandong University)

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Одзив на радове

На основу података који се налазе у бази података Scopus, на дан 19.11.2018. године, 257 публикација је цитирано укупно 3803 пута, h-индех: 30.

Мишљење Комисије

Из изложеног се види да кандидат, др Владимир Терзија, редовни професор на Универзитету у Манчестеру (*University of Manchester, School of Electrical and Electronic Engineering, Manchester*), Велика Британија, испуњава услове Закона о високом образовању (члан 77) и Статута Електротехничког факултета Универзитета у Београду (чланови 17 и 118) за избор у звање гостујућег професора.

Др Владимир Терзија има докторат наука, 4 међународне монографије, 2 монографије националног значаја, 148 радова објављених у међународним часописима, 169 радова на међународним конференцијама и велики број предавања по позиву. Последњих година др Владимир Терзија са Катедром за електроенергетске системе остварује значајну сарадњу кроз предавања по позиву и увођење студената у научно-стручни и студијско-истраживачки рад.

Полазећи од анализе целокупне наставне и научно-истраживачке активности др Владимира Терзије, обима и квалитета његовог научног, образовног и стручног рада, као и ангажовања да знања пренесе студентима и колегама у Србији, предлажемо Изборном већу Електротехничког факултета Универзитета у Београду, Већу групације техничко-технолошких наука и Сенату Универзитета у Београду, да га изабере у звање гостујућег професора.

У Београду, 28.1.2019. године

Чланови Комисије

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