

Curriculum Vitae (CV) for application in CIGRE activities

Requested position in CIGRE (SC member):

1. Personal information

- Title (e.g. Mr., Ms.): Mr.
- First name: Bozidar
- Family name: Filipovic-Grcic
- Year of birth: 1983
- Company: University of Zagreb Faculty of Electrical Engineering and Computing
- Company address: Unska 3, 10000 Zagreb, Croatia
- Nationality: Croatian
- Email address: bozidar.filipovic-grcic@fer.hr
- CIGRE number: 120181579
- Personal web site: <https://www.fer.unizg.hr/en/bozidar.filipovic-grcic>

2. Education record

- 2007 - Master Degree, University of Zagreb Faculty of Electrical Engineering and Computing
- 2013 – PhD, University of Zagreb Faculty of Electrical Engineering and Computing

3. Employment record relevant to the assignment in CIGRE

- From 2007 employed at University of Zagreb Faculty of Electrical Engineering and Computing (current position: associate professor)

4. Other qualifications and professional experience when relevant

- Head of High Voltage Laboratory at the Faculty of Electrical Engineering and Computing.
- Author of numerous scientific and technical papers published in international journals and at international conferences.
- Participated in many reports and studies applied in practice.
- Certified instructor for electromagnetic transient program (EMTP).

5. CIGRE record

- Chair of Croatian NGN section
- Member of national study committees A3 and C4

- Croatian representative in CIGRE C4 committee (2018-2024)
- Member of CIGRE SEERC working group WG-02 „Regional perspective of shunt reactor introduction in the transmission system“.
- He has participated in the work of several international CIGRE working groups focusing on overvoltages, measurement systems, and high-voltage equipment, including WG C4.45 (Measuring Techniques and Characteristics of Fast and Very Fast Transient Overvoltages in Substations and Converter Stations), WG A2.63 (Transformer Impulse Testing), WG C4.61 (Lightning Transient Sensing, Monitoring, and Application in Electric Power Systems), WG C4.66 (New Concept for Analysis of Multiphase Back-Flashover Phenomena of Overhead Transmission Lines Due to Lightning), JWG C4/A3/B2/B4.75 (Guide to procedures for the creation of contamination maps required for outdoor insulation coordination)

6. Reference of publications (in scientific journals)

- Šterc, Tomislav ; Filipović-Grčić, Božidar ; Franc, Bojan ; Mesić, Krešimir, Methods for estimation of OHL conductor temperature based on ANN and regression analysis // International journal of electrical power & energy systems, 151 (2023), 1-11. doi: 10.1016/j.ijepes.2023.109192
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- Xemard, Alain ; Deneuville, Boris ; Girard, Paul ; Uglešić, Ivo ; Filipović-Grčić, Božidar ; Milardić, Viktor ; Stipetić, Nina, Risk of voltage escalation due to a single-phase fault on the ungrounded MV network of an industrial plant // Electric power systems research, 220 (2023), 1-6. doi: 10.1016/j.epsr.2023.109298
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- Filipović-Grčić, Božidar ; Milardić, Viktor ; Bojić, Srećko ; Jurišić, Bruno, Specific aspects of overvoltage protection in hydro power plant considering AIS and GIS connection to the transmission network // Electric power systems research, 218 (2023), 1-7. doi: 10.1016/j.epsr.2023.109252
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- Jurišić, Bruno ; Filipović-Grčić, Božidar ; Župan, Tomislav ; Levačić, Goran, Statistical analysis of non-standard overvoltage waveforms measured at 220 kV terminals of a power transformer // Electric power systems research, 197 (2021), 107318, 7. doi: 10.1016/j.epsr.2021.107318
- Stipetić, Nina ; Filipović-Grčić, Božidar ; Uglešić, Ivo ; Xemard, Alain ; Andres, Naum, Earth-fault detection and localization in isolated industrial MV network – comparison of directional overcurrent protection and signal injection method // Electric power systems research, 197 (2021), 1-7. doi: 10.1016/j.epsr.2021.107313
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- Župan, Tomislav ; Jurišić, Bruno ; Murat, Ivan ; Filipović-Grčić, Božidar ; Goglia, Slaven ; Levačić, Goran, Fleet Asset Management Opportunities Arising from Transient Monitoring of Power Transformers and Shunt Reactors // Energija : časopis Hrvatske elektroprivrede, 69 (2020), 4; 8-11. doi: 10.37798/202069451
- Plavec, Eduard ; Filipović-Grčić, Božidar ; Vidović, Mladen, The impact of plunger angle and radius on the force and time response of DC solenoid electromagnetic actuator used in high-voltage circuit breaker // International journal of electrical power & energy systems, 118C (2020), 1-7. doi: 10.1016/j.ijepes.2019.105767
- Levačić, Goran ; Uglešić, Ivo ; Jurišić, Bruno ; Filipović-Grčić, Božidar, Influence of cables on power transmission network frequency response // Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku, 26 (2019), 1; 114-121. doi: 10.17559/TV-20171201102402
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- Filipović-Grčić, Dalibor ; Filipović-Grčić, Božidar ; Capuder, Kosjenka, Modeling of Three-Phase Autotransformer For Short-Circuit Studies // International journal of electrical power & energy systems, 56 (2014), 228-234. doi: 10.1016/j.ijepes.2013.11.005
- Filipović-Grčić, Dalibor ; Filipović-Grčić, Božidar ; Uglešić, Ivo, Lightning Critical Flashover Voltage of High Voltage Insulators: Laboratory Measurements and Calculations // International review of civil engineering, Vol. 7 (2012), N. 2 - Part B; 4321-4328
- Uglešić, Ivo ; Filipović-Grčić, Božidar, Journal of Energy special issue: Papers from International CIGRÉ Colloquium "Application of line surge arresters in power distribution and transmission systems" // Energija : časopis Hrvatske elektroprivrede, 60 (2011), 1-115
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- Complete list of publications:
<https://www.croris.hr/crosbi/searchByContext/2/31692?lang=en>
<https://www.researchgate.net/profile/Bozidar-Filipovic-Grcic/research>

7. Membership in professional associations

- CIGRE
- IEEE Senior member
- HZN Croatian Standards Institute (E14 – Technical committee for Power transformers and Shunt reactors)
- CIRED (member of study committee SO2 Power quality and EMC)

8. Experience in national and international meetings

- NGN formation in Croatia since 2020, NGN session organization at national CIGRE conference in 2023
- National SC A3 meetings in 2023
- Paris Session 2022 NGN Forum
- Paris Session, WG meetings C4.66 - New concept for analysis of multiphase back flashover phenomena of transmission lines due to lightning
- WG meetings C4.45, C4.61, JWG C4/A3/B2/B4.75
- Meetings in CIGRE C4

9. Language skills (only those that you are technically conversant in)

- English, C1

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available, as and when necessary, to undertake the assignment.

Name of Expert

Signature

Date

Assoc. prof. Bozidar Filipovic-Grcic



11.01.2024.