Luigi Vanfretti, Ph.D. – List of Publications

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Copies of papers under review or in press are available by request. Each section is arranged in reverse chronological order. Available pre-prints of some, but not all of the publications below, can be found in KTH’s DIVA Database: follow this link.

Under Revision (after First and Second Submission)


Submitted for Review

Journal Papers Submitted for Review


Conference Papers under Review

Papers submitted to IEEE PowerTech 2015:


(CR06) M.A. Adib Murad, F.J. Gomez, and L. Vanfretti, “Equation-Based Modeling and Simulation of Three-Winding,


Papers submitted to the 2015 IEEE 15th International Conference on Environment and Electrical Engineering:

(CR08) L. Vanfretti, M. Baudette, J.L. Dominguez, A. White, I. Al-Khatib, M.S. Almas, and J.O. Gjerde, “A PMU-Based Fast Real-Time Oscillation Detection Application for Monitoring of Wind Farm Dynamics,”


In Preparation

In Current Preparation - Conferences


Stale

(CPS01) M. Farrokhabadi and L. Vanfretti, “Extracting Relevant Student Feedback from Disparate Course Evaluations Considering the Students’ Learning Approach”.

(CPS02) F. Milano and L. Vanfretti, “Free and Open Source Software for Power System Analysis” Note: prepared on behalf of the CAMS Task Force on Open Source Software.

(CPS03) D.M. Laverty, P. Brogan, L. Vanfretti, and D. J. Morrow, “Technique for Pre-Compliance Testing of Phasor Measurement Units”.

Published Works

1 Books


2 Book Chapters


3 Journal Papers

*Paper (J07) has been published in a Special Issue on Power System Phasor Measurement Data and Their Applications, and paper (J02) appears in a Special Issue on Virtual Laboratories.*


(J15) L. Vanfretti and M. Farrokhabadi, “Evaluating Constructive Alignment Theory Implementation in a Power System Analysis Course through Repertory Grids”, *IEEE Transactions on Education*, vol. 56, no. 4, pp. 443–452, Nov. 2013. DOI: [http://dx.doi.org/10.1109/TE.2013.2255876](http://dx.doi.org/10.1109/TE.2013.2255876)


(J13) D.M. Laverty, R.J. Best, P. Brogan, I. Al Khatib, L. Vanfretti, and D.J. Morrow, “OpenPMU Platform for Open Source Phasor Measurements”, *IEEE Transactions on Instrumentation and Measurements*, vol. 62, no. 4, April 2013, pp. 701 – 709. DOI: [http://dx.doi.org/10.1109/TIM.2013.2240920](http://dx.doi.org/10.1109/TIM.2013.2240920)


4 Conference Papers

4.1 Peer Reviewed Papers which have been invited to Panel Sessions and Special Sessions in Conferences

The papers enumerated in the table below were invited and presented in Panel and Special Paper Sessions in different international conferences. A complete citation for each paper is given below:

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<th>No.</th>
<th>Panel/Paper Session</th>
<th>Conference</th>
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<tr>
<td>C56</td>
<td>Technical Session, Track 5: Communication and Control in Smart Grids</td>
<td>BlackSeaCom 2013</td>
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<tr>
<td>C49, 54</td>
<td>Identification of Electromechanical Modes in Power Systems</td>
<td>IEEE PES GM 2013</td>
</tr>
<tr>
<td>C52</td>
<td>New Synchrophasor Standards and Guides: Measurements, Data Transfer, Concentration and Implementation Requirements</td>
<td>IEEE PES GM 2013</td>
</tr>
<tr>
<td>C41</td>
<td>Real Time Simulation of Smart Grids</td>
<td>IEEE ISGT Europe 2012</td>
</tr>
<tr>
<td>C37</td>
<td>Real-time simulation and validation methods for power and energy systems</td>
<td>IECON 2012</td>
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<tr>
<td>C33, C34</td>
<td>RT and HIL Simulation for Approaching Complexity in Future Power &amp; Energy Systems</td>
<td>IEEE COMPENG 2012</td>
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<tr>
<td>C32</td>
<td>Stability and control in Smart Power Grid</td>
<td>IFAC PP&amp;PSC 2012</td>
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<tr>
<td>C28</td>
<td>Distributed Control – Bringing together the power and control communities</td>
<td>IEEE PES GM 2012</td>
</tr>
<tr>
<td>C27</td>
<td>Synchrophasor Measurement Applications in Power Industry to Enhance Power System Reliability</td>
<td>IEEE PES GM 2012</td>
</tr>
<tr>
<td>C26</td>
<td>Wide-Area Early Warning Systems</td>
<td>IEEE PES GM 2012</td>
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<td>C23</td>
<td>Development of System ID Methods for Power System Dynamics</td>
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<td>C18, C19</td>
<td>PMU/WAMS Invited Paper Session</td>
<td>PSCC 2011</td>
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<tr>
<td>C17</td>
<td>International Implementation Experience and Prospective Applications of Synchrophasors and their Supporting Infrastructures</td>
<td>IEEE PES GM 2011</td>
</tr>
<tr>
<td>C16</td>
<td>Bringing Smart Grids to the Next Level (Working Group on European Electricity Infrastructure)</td>
<td>IEEE PES GM 2011</td>
</tr>
<tr>
<td>C09</td>
<td>Recent Applications of Linear Analysis Techniques Panel Session</td>
<td>IEEE PES GM 2009</td>
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<tr>
<td>C07</td>
<td>Panel Session on Open Source Software for Power Systems</td>
<td>IEEE PES GM 2009</td>
</tr>
<tr>
<td>C06</td>
<td>Deployment and Applications of Synchronized Phasor Measurements</td>
<td>IEEE PSCE 2009</td>
</tr>
</tbody>
</table>

4.2 List of Peer Reviewed Conference Papers

2015

Papers in the IEEE PES General Meeting 2015 (9):


IEEE Power and Energy Conference at Illinois 2015:

Papers in the IEEE ISGT 2015 Conference (4):
2014


(C64) H. Hooshyar and L. Vanfretti, “Power Flow Solution for Multiphase Unbalanced Distribution Networks with High Penetration of Photovoltaics,” 8th International Conference on Electrical and Electronics Engineering, November 2013, Bursa, Turkey.


2011


2010


2009


2008 - 2006


5 Papers in Magazines and Conferences in Spanish


6 Special Publications


7 White Papers and Contributions to Reports in International Societies

7.1 White Papers - Single Authored


7.2 Contributions to Task Force, Working Groups and Other Reports


DIVA: http://kth.diva-portal.org/smash/record.jsf?searchId=1&pid=diva2:653871


(TF3) IEEE Task Force Report:
DIVA: http://www.pes-store.org/p-13616.htm

DIVA: http://kth.diva-portal.org/smash/record.jsf?searchId=1&pid=diva2:482085

DIVA: http://kth.diva-portal.org/smash/record.jsf?searchId=1&pid=diva2:482079
7.3 White Papers with Working Groups


8 Thesis

http://tinyurl.com/vanfretti-phd-thesis


http://biblioteca.usac.edu.gt/tesis/08/08_6193.pdf
Invited Talks

Note: I have stopped documenting invited presentations and talks since Nov. 2012.

Invited Tutorial Presentation

http://ewh.ieee.org/conf/pesgm10/Tutorials.htm#Tutorial#5

Special Invited Talks

http://tinyurl.com/gpaforum


Invited Seminars and Lectures

(S34) “Nordic PMU/WAMPAC Projects and Initiatives”, WAMPAC Workshop, Brunel University, Nov. 16, 2012.


8 “Smart Transmission Grids,” Invited Presentation, STandUP Akademin, Kristina Konferens & Hotell AB, Sigtuna,


