NEW FACULTY
ADDRESSING COMPLEX GLOBAL CHALLENGES

LUIGI VANFRETTI
WELCOMED AS ASSOCIATE PROFESSOR

The research and expertise of Professor Vanfretti exemplifies the vision of The New Polytechnic, an emerging paradigm for teaching, learning, and research at Rensselaer Polytechnic Institute, the foundation of which is the recognition that global challenges and opportunities are so great they cannot be adequately addressed by even the most talented person working alone. Rensselaer serves as a crossroads for collaboration—working with partners across disciplines, sectors, and geographic regions—to address complex global challenges.

Luigi Vanfretti
Associate Professor
Ph.D. Electrical Power Engineering,
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ELECTRICAL, COMPUTER, AND SYSTEMS ENGINEERING

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Luigi Vanfretti  |  Associate Professor

Dr. Vanfretti’s expertise is in the area of advanced power system modeling and control, and smart grid and distribution system engineering. He received his undergraduate degree in electrical engineering, with an electric power concentration, from the Universidad de San Carlos in Guatemala. He earned his master’s and Ph.D. degrees in electric power engineering from Rensselaer Polytechnic Institute, and stayed on to do a postdoctoral position, before accepting a position as assistant professor at the KTH Royal Institute of Technology in Stockholm. Prior to joining Rensselaer, Dr. Vanfretti was promoted to associate professor in 2013.

“Dr. Luigi Vanfretti is a skillful and productive researcher. His technical interests and accomplishments fill an important gap in our existing work in cyber-physical power systems. Dr. Vanfretti’s addition to our power group substantially enhances our overall power system research program.”

Michael Wozny, Ph.D.  |  Professor and Head,
Department of Electrical, Computer, and Systems Engineering