

Patricia Caratozzolo

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Contributor: Patricia Caratozzolo

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Basic Information



Name: Patricia Caratozzolo
(Jul 1964–)

Birth Location:	Buenos Aires, Argentina
Title:	Eng.D. Professor and Researcher
Affiliations:	Institute for the Future of Education, Tecnologico de Monterrey, Mexico Schools of Engineering and Sciences, Tecnologico de Monterrey, Mexico
Honor:	Unknown

1. Introduction

Patricia Caratozzolo is an Electronic Engineer from the University of Buenos Aires, Argentina (UBA). She completed her doctoral studies at the Polytechnic University of Catalonia in Spain, at the Institute of Industrial Robotics, with a Ph.D. thesis on electric generation systems for hybrid vehicles in June 2003. She worked for several years at the National Center for Technological Research and Development (Cenidet) as a professor-researcher, where she directed six master's theses in energy control in electric and hybrid vehicles. She is an Assistant Professor at the School of Engineering and Sciences and a Full Researcher at the Institute for the Future of Education, Tecnologico de Monterrey, Mexico.

She worked for several years at the National Center for Technological Research and Development (Cenidet) as a professor-researcher, where she directed six master's theses in energy control in electric and hybrid vehicles. He has published numerous articles on supervisory control of energy in electric and hybrid vehicles.

She is currently a professor-researcher in the Department of Mechatronics of the Tecnologico de Monterrey, specializing in power transmission, sustainability, and energy efficiency.

Outstanding expertise in the Sector of Sustainable Engineering:

- Technological innovation in the energy sector (Optimization, design, and efficiency in generation systems, transmission and distribution of electrical energy, management of reactive power, incorporation of renewable sources)
- Development of Competencies and Disciplinary Skills in Collaborative Groups
- Development of Critical Thinking and Case Analysis
- Problem-solving through Lateral Thinking and Design Thinking

2. Main Work

She currently leads Educational Innovation, Socially Oriented Interdisciplinary STEAM, Critical Thinking, Continuing Education, and Lifelong Learning Skills projects. Some projects are the design of didactic strategies to enhance the linguistic corpus of students (2017), a Transversal laboratory for the development of critical thinking (2019), a Storytelling and Podcast Lab for the development of soft skills in engineering (2021), Laboratory of Natural language Processing Tools for Assessing Digital Skills (2023). She is interested in presenting the results of her research in conferences and workshops on educational innovation, teaching-learning strategies, the fourth industrial revolution, Critical and Creative Thinking, Cognitive Flexibility, and the development of soft skills in engineering.

Dr. Caratozzolo is a Senior Member of IEEE, a member of Women in Engineering (WIE), an Executive Committee Member of the International Federation of Engineering Education Societies (IFEES), a member of the National System of Researchers (SNI) of the Mexican Council of Educational Research (CONACYT), and Vice President of the International Association of Continuing Engineering Education (IACEE).

Some of her recent publications are:

[\[1\]](#)[\[2\]](#)[\[3\]](#)[\[4\]](#)[\[5\]](#)[\[6\]](#)[\[7\]](#)[\[8\]](#)[\[9\]](#)[\[10\]](#)

Further Reading

https://doi.org/10.1007/978-3-031-04075-7_21

References

1. Mariajulia Martínez-Acosta; Patricia Vázquez-Villegas; Patricia Caratozzolo; Vianney Lara-Prieto; Rebeca García-García; Jorge Membrillo-Hernández. Education for Sustainability: Calculation of the Digital Carbon Footprint; Springer Science and Business Media LLC: Dordrecht, GX, Netherlands, 2023; pp. 345-353.
2. M. Ileana Ruiz-Cantisani; Jorge Membrillo-Hernández; Patricia Caratozzolo; Vianney Lara-Prieto. Towards the gender equity in Education: Strategies to develop equity leadership in higher education institution; Institute of Electrical and Electronics Engineers (IEEE): Piscataway, NJ, United States, 2023; pp. 1-4.
3. Vianney Lara-Prieto; M. Ileana Ruiz-Cantisani; Jorge Membrillo-Hernández; Patricia Caratozzolo; Rebeca M. García-García; Luis Alberto Mejía-Manzano; Patricia Vázquez-Villegas. The Role of Collaborative Online International Learning (COIL) as a Tool to Meet Engineering Accreditation Student Outcomes; Institute of Electrical and Electronics Engineers (IEEE): Piscataway, NJ, United States, 2023; pp. 1-5.
4. Luis Alberto Mejía-Manzano; Patricia Vázquez-Villegas; Anthony Smith; Alfredo Soeiro; Anikó Kálmán; Tamer Atabarut; Nicolás Otaduy-Rivera; Jorge Membrillo-Hernández; Patricia Caratozzolo; An Exploratory Study Examining the Key Aspects and Actions for Universities to Achieve High Sustainability Rankings. *Sustain.* **2023**, *15*, 4165.
5. Roberto Ponce-Lopez; Gonzalo Peraza-Mues; Fernando Gómez-Zaldívar; Jorge Membrillo-Hernández; Alejandro Acuña-López; Patricia Caratozzolo; Knowledge based urban development: An approach to innovation districts based on education. *Front. Educ.* **2023**, *8*, -.
6. Jorge Membrillo-Hernández; William Javier Cuervo Bejarano; Luis Alberto Mejía Manzano; Patricia Caratozzolo; Patricia Vázquez Villegas; Global Shared Learning Classroom Model: A Pedagogical Strategy for Sustainable Competencies Development in Higher Education. *Int. J. Eng. Pedagog. (iJEP)*. **2023**, *13*, 20-33.
7. Patricia Caratozzolo; Alvaro Alvarez-Delgado; Jorge Rodriguez-Ruiz. Applications of Natural Language Processing for Industry 4.0 Skills Development; Institute of Electrical and Electronics Engineers (IEEE): Piscataway, NJ, United States, 2023; pp. 1-9.
8. Patricia Caratozzolo; Christopher Smith; Patricia Muñoz Escalona; Jorge Membrillo Hernández. Exploring engineering skills development through a comparison of institutional practices in Mexico and Scotland; Universitat Politècnica de Catalunya: Barcelona, Spain, 2022; pp. 1878-1883.
9. Patricia Caratozzolo; Vianney Lara-Prieto; Cecilia Martinez-Leon; Jorge Rodriguez-Ruiz; Roberto Ponce; Patricia Vazquez-Villegas; Jorge Membrillo-Hernandez. Developing Skills for Industry 4.0: Challenges and Opportunities in Engineering Education; Institute of Electrical and Electronics Engineers (IEEE): Piscataway, NJ, United States, 2022; pp. 1-5.
10. Patricia Caratozzolo. Art as Metacognitive Tool for Critical Thinking in Engineering; Springer Science and Business Media LLC: Dordrecht, GX, Netherlands, 2022; pp. 437-453.

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