

Elena Lomonova

**Biography:**

*Research profile*

Elena Lomonova is a Full Professor and Chair of Electromechanics, Power Electronics and Motion Systems at Eindhoven University of Technology (TU/e). Her chair focuses on fundamental and applied research on enabling energy conversion theory, methods and technologies for high-precision, automotive and medical systems. Her research activities span various facets of advanced mechatronics, electromechanics and electromagnetics including rotary electrical machines and drives, linear and planar actuation systems.

*Academic background*

Elena Lomonova studied Electromechanical and Control Systems at Moscow Aviation Institute - (State University of Aerospace Technology), Russia. After graduating (with honors), she started her industrial career at the Research and Development Company 'Astrophysics', Moscow, Russia (1982-1987). Afterwards she moved to the Electromechanical and Control Systems Department at State University of Aerospace Technology (MAI), and was active in research, education and industrial projects (1987-1997).

She gained her PhD (with honors, 1993) on researching of powertrain and control systems for autonomous vehicles with multi-level power supply subsystems for on-board loads and laser equipment. She started working for Delft University of Technology in 1998 before joining TU/e in 2000. In March 2009 she was appointed as a full-time professor and chair of the Electromechanics and Power Electronics group. She is an author and co-author of more than 450 scientific publications and more than 10 patents.