

Title of your paper

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Abstract The abstract should summarize the content of the paper, indicating its aim, starting point, original contribution and conclusions (up to 200 words).

1 Introduction

This document briefly describes how to write a manuscript for the ELECTRIMACS 2026 conference.

2 How to Prepare Your Paper

2.1 Templates

Authors are kindly invited to use the \LaTeX source file (TEX) or Word templates (DOCX) available on the conference website:

<https://www.electrimacs2026.org>.

The use of \LaTeX is *highly recommended* for manuscript preparation.

This is the template version 1.0 – September 2025.

F. Author · T. Author
 Department – University
 address line 1
 address line 2, if needed
 Zip code, City, Province, Country
 e-mail: fauthor@somewhere.org, tauthor@elsewhere.com

S. Author · L. Author
 Institution name
 address line 1
 address line 2, if needed
 Zip code, City, Province, Country
 e-mail: ...

2.2 Manuscript Information

Authors are kindly asked to prepare their manuscript according to the following specifications:

- Language: English
- Size: A4
- Two columns
- Length: from four (4) to six (6) pages.

2.3 Document Style and Size

The document margin and column size are summarized in Tab. 1. Font, style and size of titles and texts are reported in Tab. 2.

Table 1 Columns and margins

Parameter	Value
Left margin	15 mm
Right margin	21 mm
Upper margin	30 mm
Lower margin	31 mm
First page upper margin	47 mm
Blank space after the authors' line	43 mm
Column width	84 mm
Column separation	6 mm
Figure width	≤ 84 mm

2.4 Submission of Papers

A camera-ready PDF manuscript must be submitted for review through the conference submission system. No other file format is accepted for this initial submission. You will find more information about the initial submission on the conference website.

Table 2 Document style

Style	Characteristics
Paper Title	16 pt, bold, left-aligned
Authors' names	10 pt, bold, left-aligned
Affiliation and e-mail	8.5pt, left-aligned in the footnote in column one
Section title	10 pt, bold, left-aligned, hierarchically numbered
Subsection title	10 pt, italic, left-aligned, hierarchically numbered
Main body text	10 pt, justified, single-spaced
Acknowledgements section title	8.5 pt, bold
Acknowledgements body text	8.5 pt, justified
Figure and table title	8.5 pt, bold
Figure and table captions	8.5 pt, justified

2.5 Figure, Tables, Citations and Cross-References

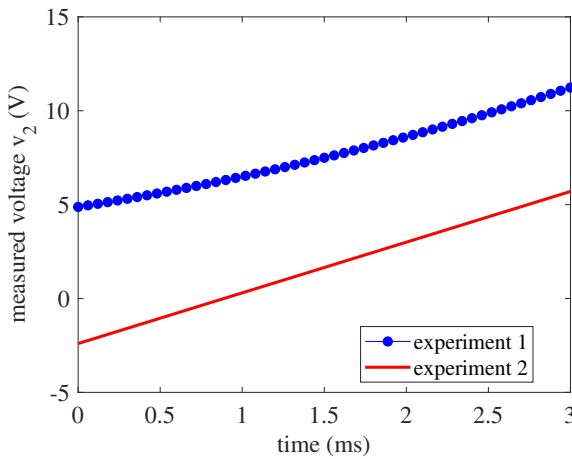


Fig. 1 Please write the caption here. If the caption is long, the text of the caption is justified.

Refer to a figure using Fig. 1, or Fig. 2. Refer to a table using Tab. 1. You can cite an item listed in the Reference section as [1] or [2,3].

2.6 Equations

Equations are left-aligned and numbered as shown below:

$$\left(\frac{R_e}{1-D} + \frac{DT_s}{C_e} \right) \leq \Delta v_{pp}^{max}. \quad (1)$$

Please refer to an equation using (1).

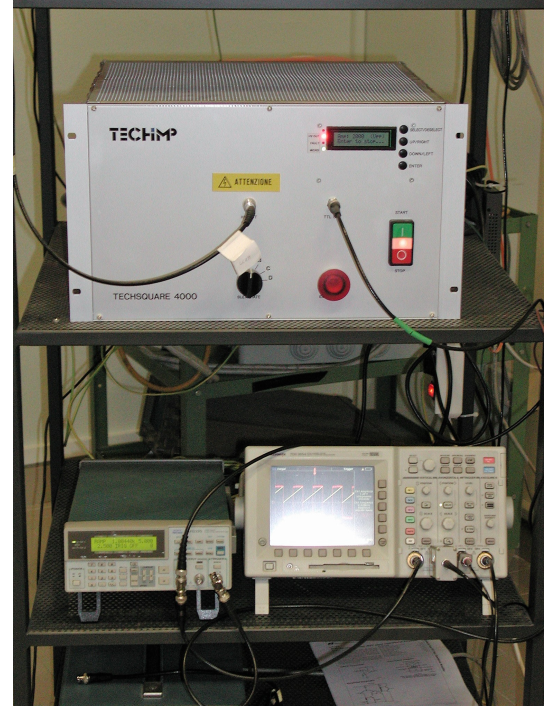


Fig. 2 Experimental setup.

3 Section Title

ELECTRIMACS 2026 is the International Conference of the Technical Committee ELECTRIMACS of the International Association for Mathematics and Computers in Simulation (IMACS), formerly known as IMACS TC1. The conference aims to foster scientific and professional exchange to advance research in modeling, simulation, design optimization, control implementation, numerical methods, and machine learning applied to the electrical domain.

3.1 Subsection Title

Applications of interest include, but are not limited to:

- electric machines and electromagnetic devices
- power electronics systems and components
- transportation systems (including space, airborne, and waterborne applications)
- microgrids and smart grids
- energy management in electrical systems
- electric and hybrid vehicles
- renewable energy systems
- energy storage technologies, including batteries, super-capacitors, and fuel cells
- wireless power transfer

4 ELECTRIMACS 2026 Topics

4.1 Modeling, Simulation and Identification

- Diagnostics in electrical systems
- Modeling methods and software development
- Modeling and simulation of power systems, power electronics and drives, distributed generating systems, electric machines and transformers, batteries and fuel cell systems
- Electromagnetic fields and compatibility
- Emerging electrical technologies
- Simulation methodologies for design and analysis of electromagnetic devices
- Stochastic modeling
- Thermal problems

4.2 System Design and Optimization

- System identification and optimization methods and theory
- Computer-aided design and optimization of power converters, protections, energy storage systems, electric machines, and power systems
- Multiphysics issues
- Power system and power converter architectures
- Methods and techniques for energy management

4.3 Control and Power Management

- Optimal control
- Stochastic control and filtering
- Linear and nonlinear control systems
- Linear and nonlinear programming
- Digital implementation and control
- Feedback control
- Real-time simulation methods
- Use of hardware in the loop (HIL) emulation of electrical systems
- Embedded systems
- Fuzzy logic and applications
- Genetic algorithms and evolutionary computing
- Model predictive control
- Robust control
- Sliding mode control
- Networked control systems
- Identification/diagnostic/prognostic techniques applied to electrical systems

4.4 Numerical and Data-Driven Methods, Machine Learning

- Artificial intelligence's potential to boost electrical systems performance
- Electrical market variables pattern recognition
- Energy storage systems degradation analysis
- Renewable energy generation and electric demand forecast
- Applications in electric vehicles
- Estimation of state-of-charge and state-of-health in batteries
- Signal modeling
- Robotics and mechatronics
- Electrical system parameter identification
- Energy flows prediction
- Electrical faults forecasting

5 Conclusions

Write your conclusions here.

Acknowledgments You can write your acknowledgments here, if necessary.

References

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