

AMAM submission sample

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1 Motivation of AMAM

Exploring how animals and humans excel in adaptive movements, particularly locomotion, provides valuable insights for engineers seeking to enhance the adaptive capabilities of robots. In turn, robots serve as scientific tools to investigate the fundamental principles of biological systems, especially the neuromechanical mechanisms behind their remarkable motor abilities. This “adaptive intelligence” can be harnessed to design robots that improve our lives by assisting with locomotion. To comprehensively address the understanding of biological movement, the design of bioinspired robots, and their applications in assisting both humans and animals, we have merged the 12th AMAM symposium with the 2nd LokoAssist symposium, forming the AMAM/LokoAssist 2025 Symposium. This event is dedicated to fostering fruitful interactions among biologists, engineers, and other researchers interested in adaptive motion. Previous AMAM symposia have been held in locations including Montreal, Canada (2000); Kyoto, Japan (2003); Ilmenau, Germany (2005); Cleveland, USA (2008); Awaji, Japan (2011); Darmstadt, Germany (2013); Cambridge, USA (2015); Sapporo, Japan (2017); Lausanne, Switzerland (2019); Virtual Platform (2021); and Kobe, Japan (2023).

By addressing the interdisciplinary challenge of integrating active locomotion devices—such as orthoses, exoskeletons, and prostheses—into the daily movement experience of users, LokoAssist will extend AMAM’s focus on locomotion assistance applications. The first LokoAssist Symposium was held in Darmstadt (2023). This AMAM/LokoAssist 2025 Symposium aims to bring together researchers from fields such as robotics, biomechanics, neuroscience, sports science, neurophysiology, brain science, prosthetics, and other disciplines related to adaptive behavior in both biological and artificial systems. Abstract contribution is invited. Accepted papers are presented in either oral or poster sessions based on assessed suitability by the program committee. Invited talks and some selected papers through the review process will be presented in oral sessions in a single track.

2 Paper Submission

All extended abstracts should be written in English. The deadline for first submission is February 28, 2025,



Figure 1: Caption should be placed below the figure.

Table 1: Caption should be placed above the table.

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|-------------------|---|
| February 28, 2025 | Deadline of submission |
| April 15, 2025 | Notification of acceptance |
| April 30, 2025 | Deadline of submission for Robot Zoo (Robot Demo) |
| July 8–11, 2025 | Conference |

and the acceptance decision will be notified on April 15, 2025. The detailed submission policy can be found on the official webpage: https://www.tu-darmstadt.de/lokoassist/home_lokoassist/news_und_events_lokoassist/amam25/amam25.en.jsp.

3 Preparation of Papers

3.1 Page Size and Format

Page size must be A4 and manuscript should be written in two columns with single spacing. First page must contain title, name(s) of author(s), affiliation, and e-mail address. The top-level heading, usually called section, numbered in Arabic numbers, shall appear centered on the column. The number of pages allowed is up to 2 pages.

3.2 Figures and tables

Figures and tables should place at the top or bottom of the columns. Avoid placing them before their first mention in the text. Large figures and table may span across both columns. Figure caption should be placed below the figure. Table caption should be placed above the table. They should

be referred to in the text, for example, Figure 1, Figures 1-4.

3.3 Equations

Equation numbers should be Arabic numerals enclosed in parentheses on the right-hand margin. They should be cited in text, for example, Eq. (1) or Eqs. (1) to (3). Punctuate equations with commas or periods when they are part of a sentence. For example,

$$\dot{x} = Ax + By, \quad (1)$$

where x is state vector.

4 Reference

Reference should appear in a separate bibliography at the end of the paper, with items referred to with numerals in square brackets [1–3].

5 Filling text

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6 Conclusions

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7 Optional acknowledgements

Authors want to thanks their funding agencies, student assistants, and scientific colleagues.

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