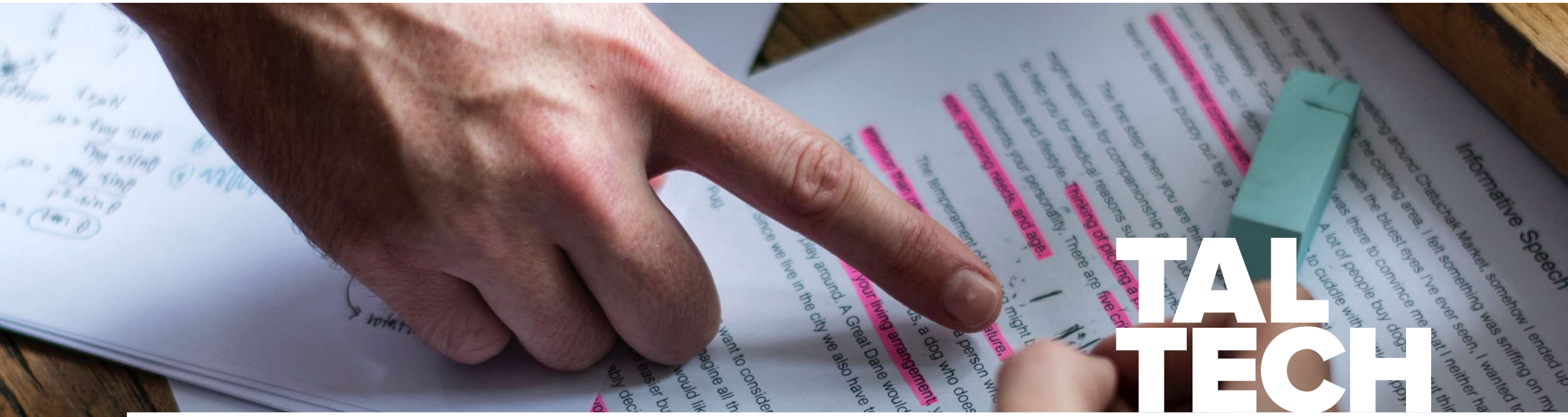


UTT9102 WRITING WORKSHOP
SPRING 2025

Assoc. Prof. Jeffrey A. Tuhtan

Tallinn University of Technology
Email: jetuht@ttu.ee

04.02.2025

CURRICULUM


Scoping, Ethics
Structure and Function of a Journal / Conference Paper
Refinement and Revision

STUDY OUTCOMES

If you successfully pass this course you will:

1. Understand what it means to write a scientific paper as opposed to writing about what it was that you did.
2. Be capable of distinguishing the **significance, novelty and impact** of a scientific paper in your domain of expertise.
3. Know the structure of the Abstract, Introduction and Conclusion sections.
4. Learn how to write scientifically-rigorous Methodolgy, Results and Analysis sections.
5. Improve your writing style via „clarity and grace" by learning how to write by keeping local and global flow in balance.

COURSE OVERVIEW

- The course provides methods and techniques for academic writing.

- Our approach is top-down:

  Critical thinking → Structure → Content → Style

- The training is inclusive, interactive, collaborative and practical.

- **All students work on their own paper drafts**.

- Interactive and group exercises will be used to analyze and modify the drafts to produce concise, rigorous and easy-to-read scientific papers.

OBJECTIVES

1. Provide comprehensive, hands-on writing experience.

2. Learn how to structure your manuscript and critically assess it based on both content and style.

3. Write your own submission-ready conference or full peer-reviewed journal article.

4. **It‘s not about writing A paper, it‘s about HOW to write a paper.**

COURSE REQUIREMENTS

1. **It must be written by you** (co-author papers are ok, but you must revise sections done by others)

2. Peer-reviewed **journal or conference** manuscript

GRADING

1. Prerequisite: minimum 50% attendance and homework

2. Final draft of your scientific paper (pass / fail)

Course final grading is pass / fail.

ETHICS CHECKLIST*

1. Are the listed authors informed that they are authors?
2. Have you forgotten an author?
3. Are the scope and citations clear?
4. Are similar works clearly mentioned and compared?
5. Were human / animal studies conducted?
6. Do any authors have a conflict of interest?
7. Are all the text and figures original?
8. Has confidential data / information been used?
9. Are your claims verifiable?
10. Disclosed the use of AI?

**2014 Zobel „Writing for Computer Science“ 3rd Edition*

SCOPING

Find the journal's scope

Aims & Scope

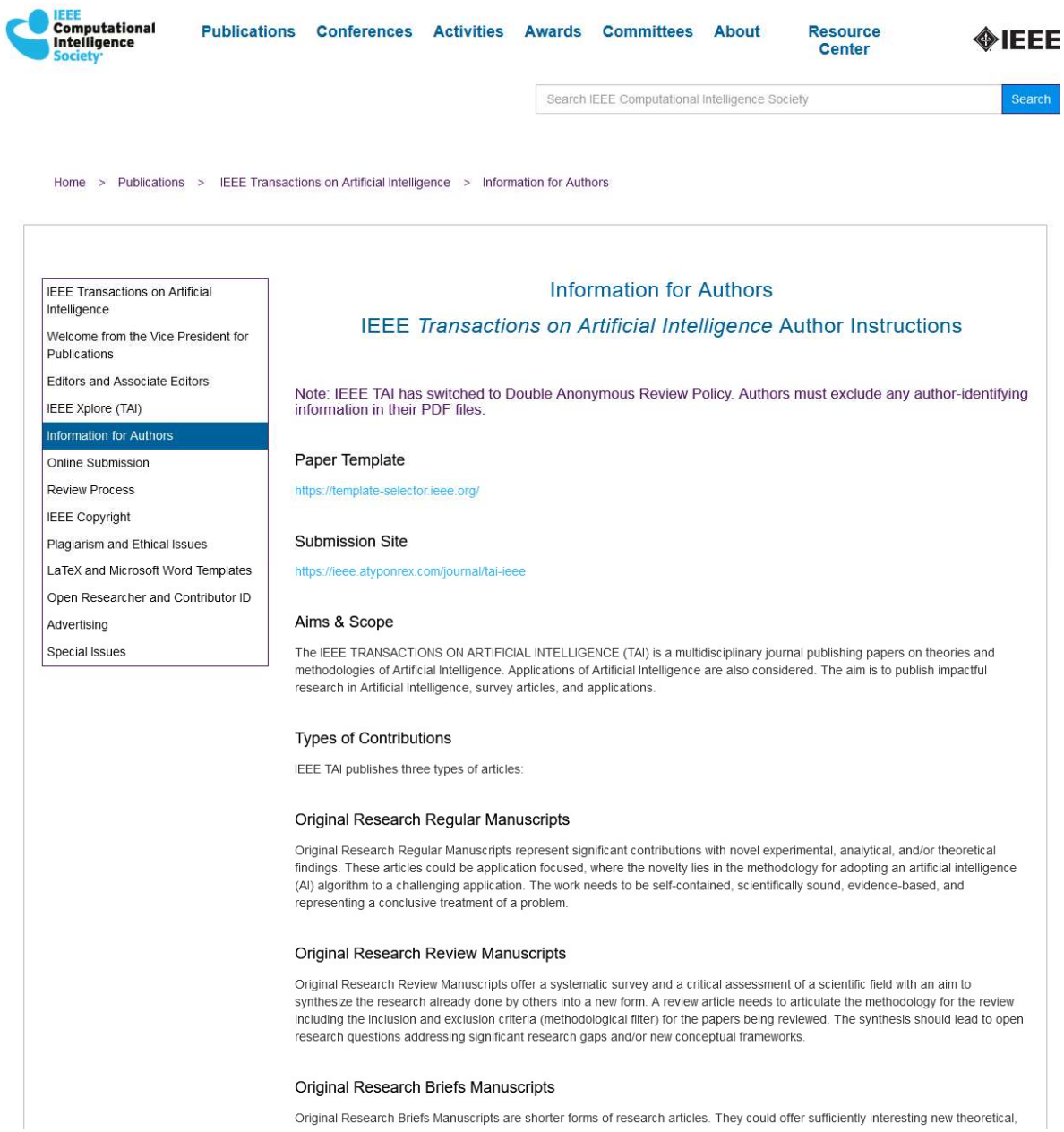
Nature Cell Biology publishes papers of the highest quality from all areas of cell biology, encouraging those that shed light on the mechanisms underlying fundamental cell biological processes. The journal's scope is broad and specific areas of interest include, but are not limited to:

- Autophagy
- Cancer biology
- Cell adhesion and migration
- Cell cycle and growth
- Cell death
- Chromatin and epigenetics
- Clinical trials and pre-clinical studies
- Cytoskeletal dynamics
- Developmental biology
- DNA replication and repair
- Mechanisms of human disease
- Mechanobiology
- Membrane traffic and dynamics
- Metabolism
- Nuclear organization and dynamics
- Organelle biology
- Proteolysis and quality control
- RNA biology
- Signal transduction
- Stem cell biology

Nature Cell Biology (*Nat Cell Biol*) | ISSN 1476-4679 (online) | ISSN 1465-7392 (print)

SCOPING

Find the journal's scope



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Aims & Scope

The IEEE TRANSACTIONS ON ARTIFICIAL INTELLIGENCE (TAI) is a multidisciplinary journal publishing papers on theories and methodologies of Artificial Intelligence. Applications of Artificial Intelligence are also considered. The aim is to publish impactful research in Artificial Intelligence, survey articles, and applications.

Types of Contributions

IEEE TAI publishes three types of articles:

Original Research Regular Manuscripts

Original Research Regular Manuscripts represent significant contributions with novel experimental, analytical, and/or theoretical findings. These articles could be application focused, where the novelty lies in the methodology for adopting an artificial intelligence (AI) algorithm to a challenging application. The work needs to be self-contained, scientifically sound, evidence-based, and representing a conclusive treatment of a problem.

Original Research Review Manuscripts

Original Research Review Manuscripts offer a systematic survey and a critical assessment of a scientific field with an aim to synthesize the research already done by others into a new form. A review article needs to articulate the methodology for the review including the inclusion and exclusion criteria (methodological filter) for the papers being reviewed. The synthesis should lead to open research questions addressing significant research gaps and/or new conceptual frameworks.

Original Research Briefs Manuscripts

Original Research Briefs Manuscripts are shorter forms of research articles. They could offer sufficiently interesting new theoretical,

SCOPING

Find the journal's scope

Applied Catalysis B: Environment and Energy

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Aims and scope

Applied Catalysis B: Environment and Energy warmly welcomes original, innovative, and high-impact contributions within the realm encompassing thermo-, electro-, and photocatalysis to advance clean energy and provide sustainable environmental solutions. We encourage submissions that explore:

- Fundamental and applied catalysis research, advancing clean energy and sustainable environmental solutions.
- Catalysis-driven insights fostering the development of sustainable industrial processes, elevating our collective knowledge base.
- Every facet of catalyst synthesis, characterization, catalytic mechanisms, and strategies for catalyst activation and regeneration, all tailored for environmental and energy applications.
- Catalytic strategies aimed at abating environmental pollutants, addressing a wide array including nitrogen oxides, carbon monoxide, sulfur compounds, chlorinated organics, and soot, emitted from both stationary and mobile sources.
- Pioneering catalytic routes and processes facilitating the efficient production and conversion of clean energy, marking a paradigm shift in the landscape energy sourcing.
- Catalytic reactions adeptly transforming waste materials into valuable and useful products, amplifying the concept of sustainability through resource recycling.

The journal welcomes submissions of original Research Papers, Reviews, Perspectives, and Letters to the Editor. Reviews and Perspectives are by invitation only.

SCOPING REVIEW CHECKLIST (1-2 PAGES)

1. You summarize the article in 5 sentences.
2. What was the main novelty?
3. What was the main significance?
4. What was similar to previous works, are the references sufficient?
5. Comment on the methods, are there alternatives or elements missing?
6. If data were processed, are the results substantiated?
7. Are the results reproducible based on the methods?
8. Are the results obviously a contribution for the community?
9. Do the conclusions include comparisions to the state of the art, limitations and weaknesses of the approach?
10. Is the future outlook presented? If so, are the statements reasonable?

HOMEWORK – WEEK 1

1. Login to Moodle – complete diagnostic quiz (key: UTT9102)

2. Write down a short description of the paper you will be writing during this course including:*Research question(s), Method(s), Expected Results, Novelty and Significance*

3. Choose three papers from a target journal you are familiar with. **Write a maximum 5 page summary based on the scoping review checklist.** Upload this as a PDF to Moodle.

4. Check out the links on academic ethics and plagiarism