

Preparation of Papers for the *Case Study and Experience Reports* section of the Journal of Software Engineering for Robotics

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Abstract—An abstract should be a concise summary of the significant items in the paper, including the results and conclusions. It should be not more than about 500 words. Define all nonstandard symbols, abbreviations and acronyms used in the abstract. Do not cite references in the abstract.

A list of significant keywords (2 minimum, 5 recommended) should be included in the first page of each submitted paper. Keywords must be chosen from those predefined within the IEEE RAS subject areas (http://www.ieee-ras.org/uploads/tro/T-RO_Keywords.pdf) or the IEEE CS subject area (<http://www.computer.org/portal/pages/ieeecs/publications/author/keywords/ACMtaxonomy.html>).

Index Terms—Computer Society, JOSER, journal, L^AT_EX, paper, template.

PREFACE FOR THE TEMPLATE

THE section on *Case Studies and Experience Reports* of the Journal of Software Engineering for Robotics (JOSER) is dedicated to reporting experiences from building real-world robot software systems. The primary focus is to report experiences about the effectiveness of software engineering approaches and methods. A secondary focus is on reporting general issues and problems with software engineering in robotics, particularly but not only for novel application domains (of which robotics has many).

Papers for this section are fairly short (4 pages). Therefore, while the relevant topics for this section are generally the same as for JOSER overall, we would expect that the methods applied are not novel, but that the focus is on case studies applying existing concepts and tools, and reporting their experiences with them. In particular, we encourage reports on

- Reports *confirming* the (degree of) suitability of particular method and/or concept

Regular paper – Manuscript received Month Day, Year; revised Month Day, Year.

- This work was supported by xxxxxxxx (No.xxxxxxxx) (sponsor and financial support acknowledgment goes here).
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- Reports *identifying* a specific gap in existing methods/concepts
- Reports *stimulating* general investigation of novel methods because of unsolved issues

General information on preparing papers for JOSER can be found in [1]. The online version of this document, with L^AT_EX sources, can be found at https://github.com/iluetkeb/joser_case_study. The original L^AT_EX document for IEEE CS journals by Michael Shell might also be useful, see <http://www.michaelshell.org/tex/ieeetran/>.

The remainder of this document, starting with the Introduction section, **defines a common structure for case study papers**. It is based upon general guidelines for reporting of case studies, by Runeson and Höst [2]. Please stick to this structure as much as possible, to make case study papers more accessible.

1 INTRODUCTION

Problem statement
Research objectives
Context

2 RELATED WORK

Earlier studies
Theory

3 STUDY DESIGN

Research questions
Case and subjects selection
Data collection procedures
Analysis procedures
Validity procedures

Second Author bio2



4 RESULTS

Case and subjects description

This should cover execution, analysis and interpretation issues.

Subsections here are determined by the chosen study method, linking observations to conclusions.

Evaluation of validity

Third Author bio3



5 CONCLUSIONS AND FUTURE WORK

Summary of conclusions
Relation to existing evidence
Impact/implications
Limitations
Future Work

ACKNOWLEDGMENTS

REFERENCES

- [1] D. Brugali, "Preparation of Papers for the Journal of Software Engineering for Robotics," Tech. Rep., 2009. [Online]. Available: <http://joser.unibg.it/public/journals/1/joserTex.zip> (document)
- [2] P. Runeson and M. Höst, "Guidelines for conducting and reporting case study research in software engineering," *Empirical Software Engineering*, vol. 14, no. 2, pp. 131–164, 2009. [Online]. Available: <http://dx.doi.org/10.1007/s10664-008-9102-8> (document)

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