

Accepted Manuscript

Runtime Management and Quantitative Evaluation of Changing System Goals in Complex Autonomous Systems

Verena Klös, Thomas Göthel, Sabine Glesner

PII: S0164-1212(18)30133-X
DOI: [10.1016/j.jss.2018.06.076](https://doi.org/10.1016/j.jss.2018.06.076)
Reference: JSS 10185



To appear in: *The Journal of Systems & Software*

Received date: 30 October 2017
Revised date: 18 June 2018
Accepted date: 26 June 2018

Please cite this article as: Verena Klös, Thomas Göthel, Sabine Glesner, Runtime Management and Quantitative Evaluation of Changing System Goals in Complex Autonomous Systems, *The Journal of Systems & Software* (2018), doi: [10.1016/j.jss.2018.06.076](https://doi.org/10.1016/j.jss.2018.06.076)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Hierarchical modular goal model including complex context-dependencies.
- Efficient quantitative goal evaluation algorithm capturing gradual goal achievement.
- Change management of goals without the need of adjusting the evaluation algorithm.
- Improving goal satisfaction based on cost-benefit ratio in autonomous systems.
- Discussion of the impact of runtime goal changes in goal-aware autonomous systems.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6885265>

Download Persian Version:

<https://daneshyari.com/article/6885265>

[Daneshyari.com](https://daneshyari.com)