

PRIMAL, a package for real-time interactive modelling analyses and learning

Citation for published version (APA):

Linden, van der, J. P., & Renes, W. A. (1987). PRIMAL, a package for real-time interactive modelling analyses and learning. In *Systems and control : 1987 Benelux meeting, Houthalen, Belgium, January 21-23, 1987* (pp. 200). Katholieke Universiteit Leuven.

Document status and date:

Published: 01/01/1987

Document Version:

Publisher's PDF, also known as Version of Record (includes final page, issue and volume numbers)

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

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PRIMAL, A PACKAGE FOR REAL-TIME INTERACTIVE MODELLING ANALYSES AND LEARNING

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ABSTRACT

The construction of a suitable model for an industrial process and the subsequent design of a controller can be seldomly achieved by walking once through a sequence of steps beginning with the experiment design and datacollection and ending with controller implementation. The situation is more like a learning process in which the gained knowledge of the system dynamics is used to adapt one or more of the previous steps. The interactive modification of the experiment in order to obtain suitable data for the modelselection is an essential part of this procedure. Starting from these concepts the program package PRIMAL has been developed. The package consists of a number of application modules for data-analysis and identification which can operate on the the measured data while the experiment is running.

In this contribution the status of the PRIMAL project will be discussed.

REFERENCE

Bollen, R; R.J.P. v.d. Linden and W.A. Renes, "PRIMAL, a package for real-time interactive system identification", Proceedings of the IASTED International Symposium Modelling and Simulation, Lugano, Zwitserland, pp 373 - 376, 1985.