

# Accepted Manuscript

Toward an algebraic theory of systems

Christian Matt, Ueli Maurer, Christopher Portmann, Renato Renner, Björn Tackmann

PII: S0304-3975(18)30409-2  
DOI: <https://doi.org/10.1016/j.tcs.2018.06.001>  
Reference: TCS 11624

To appear in: *Theoretical Computer Science*

Received date: 2 December 2016  
Revised date: 5 February 2018  
Accepted date: 1 June 2018

Please cite this article in press as: C. Matt et al., Toward an algebraic theory of systems, *Theoret. Comput. Sci.* (2018), <https://doi.org/10.1016/j.tcs.2018.06.001>

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

- The concept of a system algebra is introduced at different levels of abstraction.
- Composition-order invariance: order in which one connects systems is irrelevant.
- Kahn networks are a special case of theory and satisfy composition-order invariance.
- Causal systems can be used to model delays and time.

Download English Version:

<https://daneshyari.com/en/article/10225746>

Download Persian Version:

<https://daneshyari.com/article/10225746>

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