

Laws of programming with concurrency

Tony Hoare

Microsoft Research

Abstract

The algebraic laws for programming with concurrency are as simple as (and very similar to) the familiar laws of arithmetic. Yet they are stronger for reasoning about the properties of programs than the axioms of Hoare Logic and the rules of an operational semantics put together.

1998 ACM Subject Classification F.1.2 Parallelism and concurrency

Keywords and phrases Concurrency, Programming

Digital Object Identifier 10.4230/OASIS.ICCSW.2013.1

Category Invited Talk



© Tony Hoare;

licensed under Creative Commons License CC-BY

2013 Imperial College Computing Student Workshop (ICCSW'13).

Editors: Andrew V. Jones, Nicholas Ng; pp. 1–1

OpenAccess Series in Informatics



OASIS Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany

ICCSW