

The River Publishers Series in Automation, Control and Robotics

Behavioural Types: from Theory to Tools

Editors:

Simon Gay, University of Glasgow, UK

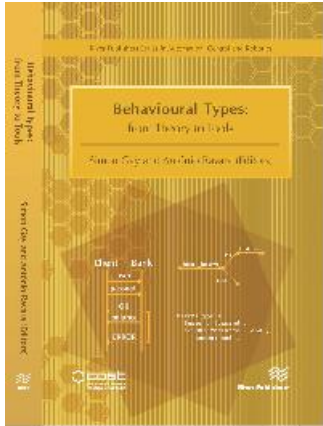
António Ravara, Universidade Nova de Lisboa, Portugal

ISBN: 9788793519824

e-ISBN: 9788793519817

Available From: June 2017

Price: € 85.00



Description:

Behavioural type systems in programming languages support the specification and verification of properties of programs beyond the traditional use of type systems to describe data processing. A major example of such a property is correctness of communication in concurrent and distributed systems, motivated by the importance of structured communication in modern software.

Behavioural Types: from Theory to Tools presents programming languages and software tools produced by members of COST Action IC1201: Behavioural Types for Reliable Large-Scale Software Systems, a European research network that was funded from October 2012 to October 2016. As a survey of the most recent developments in the application of behavioural type systems, it is a valuable reference for researchers in the field, as well as an introduction to the area for graduate students and software developers.

Keywords: Programming languages; behavioural type systems; choreography; program analysis tools; session types; software contracts; automation

Denmark Head Office

Alsbjergvej 10
9260 Gistrup
Denmark
www.riverpublishers.com
Email: info@riverpublishers.com

The Netherlands Office

Lange Geer 44,
2611 PW Delft
The Netherlands
Tel.: +31-(0)6-46573673
Email: mark.dejongh@riverpublishers.com

USA Office

Indianapolis, IN
USA
Tel.: +1-3176899634
Email: rajeev.prasad@riverpublishers.com