

RHEA: A Reactive, Holistic, Extensible, Abstract Framework for Dataflow Programming

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March 14, 2016

Abstract

Subject areas Keywords

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Chapter 1

Prologue

Declarative languages Abstraction as a solution to complexity Decouple Data
from Computation

Chapter 2

Introduction

Motivation Big-data -i Dataflows Structure of thesis

Chapter 3

Background

FRP Dataflow Stream processing Flow-based programming Robotics

Chapter 4

Approach

Chapter 5

Implementation

General Documentation Deployment Optimization Resources

Chapter 6

Use-cases

Robot Hospital Guide Robot Control Panel Camera Surveillance

Chapter 7

Related Work

GoogleDataflow TensorFlow Akka dispel4py Flowstone Spark Naiad NoFlo

Chapter 8

Figures, Tables

Chapter 9

Conclusions