<<Programming Language>>

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This book constitutes the refereed proceedings of the Third Asian Symposium on Programming Languages and Systems, APLAS 2005, held in Tsukuba, Japan in November 2005. The 24 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 78 submissions. Among the topics covered are semantics, type theory, program transformation, static analysis, verification, programming calculi, functional programming languages, language based security, real-time systems, embedded systems, formal systems design, Java objects, program analysis and optimization.

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Invited Talk Type Systems for XMLSession 1 The Essence of Dataflow Porgramming Data Refinement with Low-Level Pointer Operations A Simple Semantices for Polymorphic Recursion Symbolic Execution with Sparation LogicSession 2 An Abstract Inerpertation Perspective on Linear vs.Branching Time The Parallel Implementation fo the Astree Statioc Analyzer Using Datalog with Binary Decision Dagrams for Program Analysis Loop Invarriants on Demand Invited Talk Integrating Physical Systems in the Static Analysis of Embedded Control SofrwareSession 3 Reflection Analysis for Java Lightweight Family Polymirphsm A Portablde and Customizable Profiling Framework for Java Based on Bytecode Instruction Counting Race Conditions is Message Sequence ChartsInvited Talk A Next-generation Platform for Analyzing ExecutablesSeeion 4 Calculating Polynomial Runtime Properties Resource Bund Certification for a Tail-Resource Usage Verification of C Like Languages Termination Analysis of Higher-Order Functional ProgramsSession 5 Heterogeneous Fixes Points with Application to Points-to Analysis Fegister Allocation Via Coloring of Chordal Graphs Transformation to Dynamic Single Assingnment Using a Simple Data Flow Analysis Abstract Deperndences for Alarm DiagnosisSession 6 A Typed, Compotitional Logic for a Stack-Based Abstract Machinge A New Occurrence Counting Analysis for Bio Ambients A Parmametric Model for the Amalysis of Mobile Ambients On the Role of Abstract Non-interference in Language-Based SecurityAuthor Lndex

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