NPTEL Video Course - Computer Science and Engineering - Compiler Design (Prof. Y.N. Srikanth)

Subject Co-ordinator - Prof. Y.N. Srikanth

Co-ordinating Institute - IISc - Bangalore

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - An Overview of a Compiler - Part 1
Lecture 2 - An Overview of a Compiler - Part 2 and Run-Time Environments - Part 1
Lecture 3 - An Overview of a Compiler - Part 2 and Run-Time Environments - Part 1
Lecture 4 - Run-Time Environments - Part 2
Lecture 5 - Run-Time Environments - Part 3 and Local Optimizations - Part 1
Lecture 6 - Run-Time Environments - Part 3 and Local Optimizations - Part 1
Lecture 7 - Local Optimizations - Part 2 and Code Generation - Part 1
Lecture 8 - Local Optimizations - Part 2 and Code Generation - Part 1
Lecture 9 - Code Generation - Part 1
Lecture 10 - Code Generation - Part 2
Lecture 11 - Code Generation - Part 3 and Global Register Allocation - Part 1
Lecture 12 - Code Generation - Part 3 and Global Register Allocation - Part 1
Lecture 13 - Global Register Allocation - Part 2
Lecture 14 - Global Register Allocation - Part 3 and Implementing Object-Oriented Languages - Part 1
Lecture 15 - Global Register Allocation - Part 3 and Implementing Object-Oriented Languages - Part 1
Lecture 16 - Implementing Object-Oriented Languages - Part 2 and Introduction to Machine-Independent Optimiza
Lecture 17 - Implementing Object-Oriented Languages - Part 2 and Introduction to Machine-Independent Optimiza
Lecture 18 - Introduction to Machine-Independent Optimizations - Part 2 and Data-Flow Analysis - Part 1
Lecture 19 - Introduction to Machine-Independent Optimizations - Part 2 and Data-Flow Analysis - Part 1
Lecture 20 - Data-Flow Analysis - Part 2
Lecture 21 - Data-Flow Analysis - Part 3 and Control-Flow Analysis - Part 1
Lecture 22 - Data-Flow Analysis - Part 3 and Control-Flow Analysis - Part 1
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Lecture 24 - Machine-Independent Optimizations - Part 1
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Lecture 26 - Machine-Independent Optimizations - Part 3 and Data-Flow Analysis
Lecture 27 - Machine-Independent Optimizations - Part 3 and Data-Flow Analysis
Lecture 28 - Data-Flow Analysis
Lecture 29 - Data-Flow Analysis

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Lecture 30 - Partial Redundancy Elimination - Part 2
Lecture 31 - The Static Single Assignment Form
Lecture 32 - The Static Single Assignment Form
Lecture 33 - The Static Single Assignment Form
Lecture 34 - Automatic Parallelization - Part 1
Lecture 35 - Automatic Parallelization - Part 2
Lecture 36 - Automatic Parallelization - Part 3
Lecture 37 - Automatic Parallelization - Part 4
Lecture 38 - Instruction Scheduling - Part 1
Lecture 39 - Instruction Scheduling - Part 2
Lecture 40 - Instruction Scheduling - Part 3
Lecture 41 - Software Pipelining
Lecture 42 - Energy-Aware Software Systems - Part 1
Lecture 43 - Energy-Aware Software Systems - Part 2
Lecture 44 - Energy-Aware Software Systems - Part 3
Lecture 45 - Energy-Aware Software Systems - Part 4
Lecture 46 - Just-In-Time Compilation and Optimizations for .NET CLR
Lecture 47 - Garbage Collection
Lecture 48 - Interprocedural Data-Flow Analysis
Lecture 49 - Worst Case Execution Time - Part 1
Lecture 50 - Worst Case Execution Time - Part 2
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