A Brand New Digital Academic Dummies' Guide on Compiler Design on Free-ebooks.net by Rosina S Khan

In the academic guide on Compiler Design, the author presents underlying principles and concepts in a simple and lucid way for students in Computer Science and Engineering or an equivalent program.

United States -- Free-Press-Release.com -- May 23, 2018 -- The academic eBook titled as, "The Dummies' Guide to Compiler Design" is authored by Rosina S Khan. It has been released on May 2, 2018 by the pioneering digital publisher, Free-ebooks.net in Nevada, USA.

I am guessing that since you are reading this press release, you have compiled a high-level program at some time or the other or rather, you do it on a regular basis. In either case, this book will come handy to you because it unfurls all the mysteries of the functioning and designing of a compiler.

The book starts with definitions of compilers and their structure where she shows the phases of a compiler. Each phase becomes a chapter of the book.

For instance, the first phase is lexical analysis which groups characters of the high-level source program into tokens.

The next chapter/phase explains how the syntax analyzer structures the tokens into syntactic expressions and statements. The following two chapters continue with the details of syntax analysis.

The fifth chapter introduces intermediate code which is midway between high-level language and machine language. Since the computer understands only bits of 0's and 1's, it is difficult for the computer to understand high-level language. On the other hand, the programmer finds it hard to code in machine language and keep track of the bits of 1's and 0's. So intermediate language has been invented which the programmer can understand and it is easy for the computer to convert it to machine language.

After this phase, comes code optimization which means the program can be made to run faster in less space if the phase is applied to the program in hand.

Finally the chapter/phase on code generation shows the generation of machine code.

There are also bookkeeping and error routine modules that connect to each phase. Bookkeeping deals with for instance, recording types (integer, real etc.) of identifiers in a data structure called symbol table. On the other hand, error handling routines handle errors as the program gets compiled through the phases.

There is also an appendix at the end with a miscellaneous exercise on how to design a compiler as a step-by-step guideline.

I am happy to present all the principles, concepts and designing of a compiler in an easy and comprehensible way in the form of a Dummies' Guide.

Please visit the following link to grab a free complimentary copy of the eBook:

https://www.free-ebooks.net/ebook/The-Dummies-Guide-to-Compiler-Design

Or, visit my website:

http://rosinaskhan.weebly.com

About the Author:

Rosina S Khan is a valued and wonderful author of another interesting academic guide on Database Systems titled as, "The Dummies' Guide to Database Systems: An Assembly of Information" as well as fiction stories on http://www.free-ebooks.net. Her intriguing fiction titles on the site include: "A Family of Three", "Will Katie Unite With Jack?", "About Special Emily", "A Peek Into Sonia's Cherished Life", "Little Sheila's Awe", "Beautiful Memories To Reminisce", "Eccentric Aunt Anna", "Pete's Bilateral Crushes", "Pamela's Family Doctor", "The Villain in Kelly's Life", "A Native Pioneer in IT Sector", "An Ideal Girl's Dreams", "Near the Mediterranean Sea", "Blissful Moments of Laughter", "The Mystery Girl" and a few more.

You can find all the above eBooks in one place along with other free gem resources if you only care to visit her website: http://www.rosinaskhan.weebly.com

About the Publisher:

The contact information of the pioneering digital publisher Free-ebooks.net is as follows:

Paradise Publishers Inc

202 South Minnesota St

Carson City, Nevada

89703-4934 USA

Phone: 705-516-0496

The free eBooks that this publisher maintains on their site, http://www.free-ebooks.net are very much loved by millions and millions of readers worldwide. They allow standard members to download five free eBooks per month. If the reader is interested in reading more, s/he can upgrade their status to VIP by paying a certain fee.

Contact Information:
Name: Rosina S Khan
Company: Rosina S Khan
Telephone: 880-1776776230