

University at Albany, State University of New York

## Scholars Archive

---

University Libraries Faculty Scholarship

University Libraries

---

8-2017

### Review of Principles of Computer Science, ed. by Donald R. Franceschetti.

Michael Knee  
mknee@albany.edu

Follow this and additional works at: [https://scholarsarchive.library.albany.edu/ulib\\_fac\\_scholar](https://scholarsarchive.library.albany.edu/ulib_fac_scholar)



Part of the [Computer Sciences Commons](#), and the [Library and Information Science Commons](#)

---

#### Recommended Citation

Review of Principles of Computer Science, ed. by Donald R. Franceschetti, Choice 54 August 2017: 54-5442.

This Review is brought to you for free and open access by the University Libraries at Scholars Archive. It has been accepted for inclusion in University Libraries Faculty Scholarship by an authorized administrator of Scholars Archive. For more information, please contact [scholarsarchive@albany.edu](mailto:scholarsarchive@albany.edu).

54-5442

**Principles of computer science**, ed. by Donald R. Franceschetti. Salem Press/Grey House Publishing, 2016. 281p bibl index ISBN 9781682171394, \$160.00.

Although this resource states its goal is to introduce students and others to the fundamentals of computer science, it is ostensibly a reference work, not a textbook, functioning as an introductory encyclopedia with 117 signed entries covering such topics as 3-D printing, algorithms, biometrics, computer security, DOS, firewalls, iOS, malware, neural networks, object-oriented design, quantum computing, signal processing, and the Turing machine. Each short entry—two to three pages—highlights the relation of the topic to computer science fields and includes a brief abstract, subject terms, and a detailed explanation with a reading list. Nearly all entries include an illustration, a diagram, or a chart to elucidate the subject, and many offer sample problems with solutions. Key terms and reading lists are included in separate glossary and bibliography sections. The appendix features time lines of developments leading to modern computers and microprocessors, pioneers of computer science with their contributions, and a detailed subject index. The entries and editor's introduction are well written and aimed at beginning students. Despite some small editing errors, this is a worthwhile acquisition for libraries supporting computer science and related programs. Purchasers of the print edition have access to the online version. Summing Up: Recommended. High school through undergraduate students; general readers. -- M. Knee, University at Albany, SUNY