Revision Report since Version Beta

The System Fundamentals knowledge area receives a lot of wonderful and constructive feedback from the CS2023 steering committee and external reviewers. Based on all the feedback, in the Gamma version, the SF subcommittee made the following major changes in the content:

1. Update the preamble to emphasize that the SF knowledge area focuses on not only the fundamental concepts but also the design principles of computer systems;
2. Adjust the KA hours of SF-Resource (Resource Management) from 2 to 1;
3. Re-allocate the topic “the formula for average memory access time” in SF-Performance (System Performance) from CS Core to KA Core;
4. Add the SF-SEP (Society, Ethics, and the Profession) knowledge unit;
5. Update the illustrated learning outcomes in several knowledge units to use revised Bloom’s verbs

In addition to these changes in content, the SF Gamma version also added cross-references of knowledge units of other knowledge areas, updated the packaging of both the introductory-level and the advanced-level courses, and fixed several formatting issues.