澳 門 理 工 學 院
Instituto Politécnico de Macau
Macao Polytechnic Institute

COMP223: Software Engineering

Course Introduction

Dr. Kim, Song-Kyoo (Amang)
Associate Professor,

Computer Science Program
MACAO POLYTECHNIC INSTITUTE
Macau, SAR

Dr. Amang (Song-Kyoo) Kim ……

- Industry & Academe
  - 10+ years in Samsung Electronics;
  - 7+ years in various universities around worlds.
- Multi cultural experiences
  - Korea (10+), USA (4), Philippines (4), UAE (4)
- Science & Engineering (IT) & Business
  - B. S., Physics; Ph.D., OR (Applied Math);
  - M. S., ECE; 10+ years in IT sectors;
  - Assoc. Prof. in Business School; Faculty of Business Dept.;

Recently join the Macao Polytechnic Institute !!

Amang Kim

Professor of Operations Research and Data Sciences
Verified email at ipm.edu.mo - Homepage

Google scholar

FOLLOW

Song-Kyoo Kim

19.25 · Ph.D. (Operations Research). M.S. (Computer Engineering). · Edit

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Overview

Introduct

Song-Kyoo
recent pub
has been
was the co
Innovation
of mobile
technolog

Skills and

Manager

LinkedIn

Add profile section

More...

Amang (Song-Kyoo) Kim, Ph.D.

Professor of Computer Science Program for Data Science and Applied Mathematics

Macao Polytechnic Institute

Florida Institute of Technology

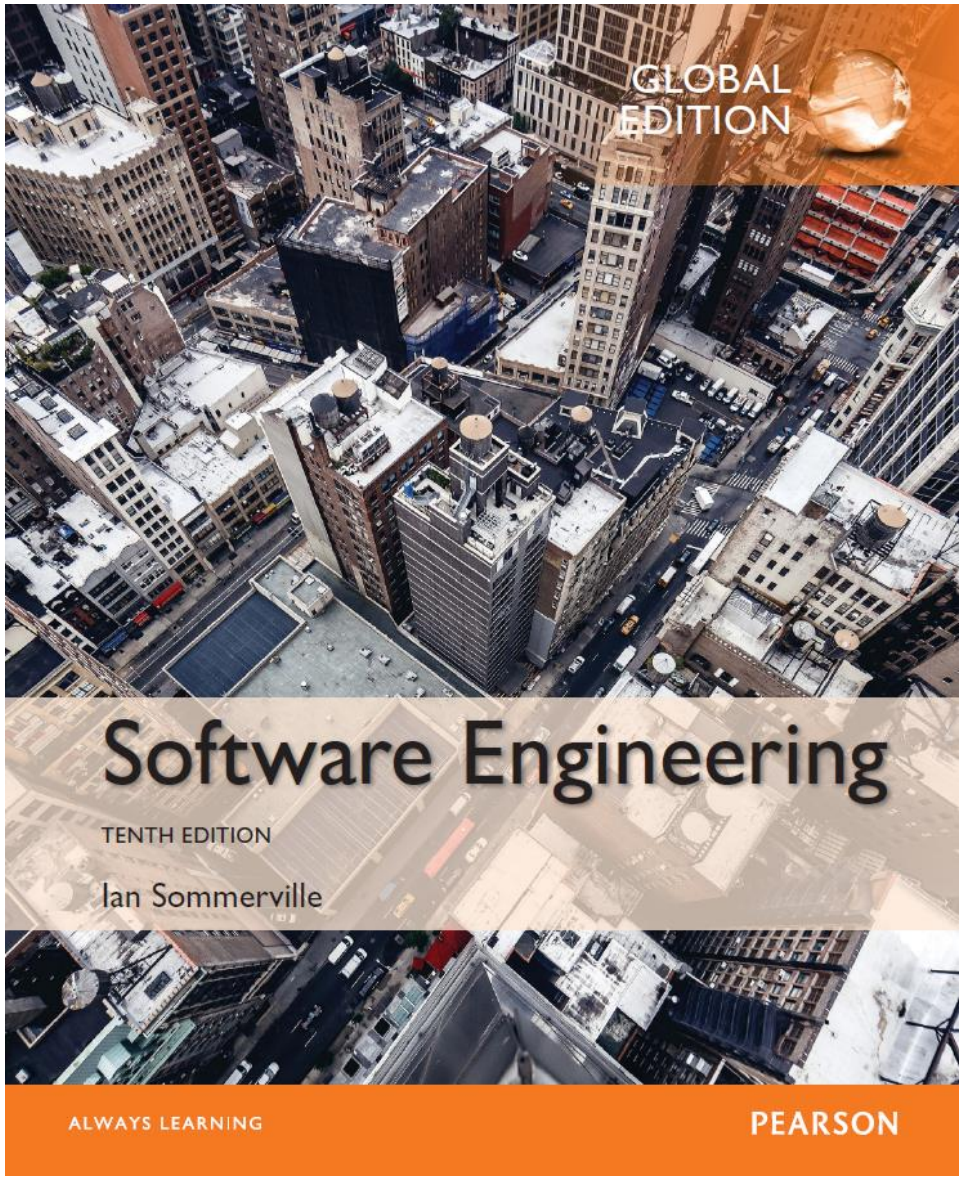
Course Descriptions

- This course introduces the concepts of software development.
- Emphasis will be put on understanding the processes, techniques and methods used to develop application software.
- Besides, students are exposed to various software development approaches.
- Upon completion, students will be able to understand the major software development methodologies and techniques, appreciate their relative merits and their limitations.

Course Outlets

- Introduction to software engineering & process
- Requirement engineering
- System modeling
- Architecture design
- Design and implementation
- Software evolution
- Agile software development
- Project planning
- Software Development Practice (SDP)*
- Quality management

Textbook



Ian Sommerville (2015), *Software Engineering,* 10th Edition, Pearson, Boston, MA.

Grading System (1/2)

- **Popup Quiz ..... 5 %**
  - (Almost) every session will have a quiz.
  - Based on the previous session.
- **Take-home assignments ..... 15 %**
  - 2 case + 2 literature (research) review.
- **Group Project ..... 15 %**
  - Presentation (10 %) + Report (5 %)
- **Group Activity (SDP) ..... 10 %**
  - Group activity in the classroom
- **Exams ..... 55 %**
  - Mid-term (15 %) + Final (40 %)

Grading System (2/2)

- Popup Quiz
  - Couple of questions that students have leant on the last session.
- Take-home assignments
  - 2 Cases – Case review report (assigned by professor)
  - 2 Research papers – Literature review (freely selected)
  - 5 % per each assignment (take the best 3)
  - The forms will be provided.
- Group Project
  - **Software development** project which adapts Software Engineering techniques.

Student Conduct

- Facebook Pages:
  - https://www.facebook.com/amang.mpi.7
  - https://www.facebook.com/groups/511360236118981/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