

# LIA

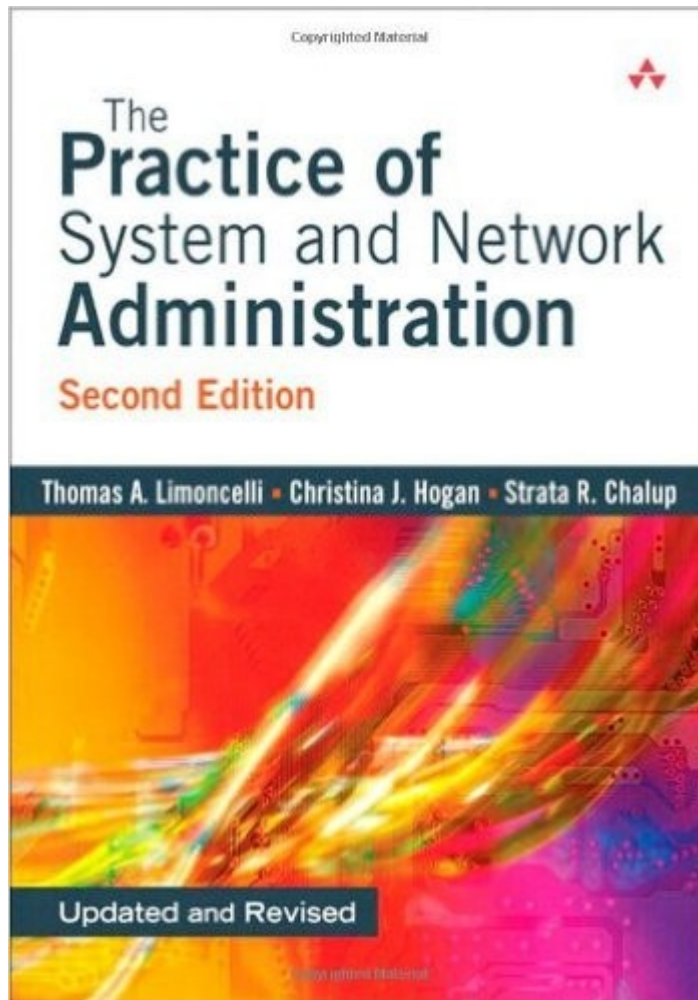
## Large Installation Administration

### Introduction 2016

# LIA in Short

- How do you administer large numbers of
  - Desktops
  - Servers
  - Services / Software
- Subtopics
  - Life Cycle: deployment, maintenance, phasing out
  - Virtualization
  - Standardization
  - Documentation & Ethics
  - Line and Project Management
  - ...

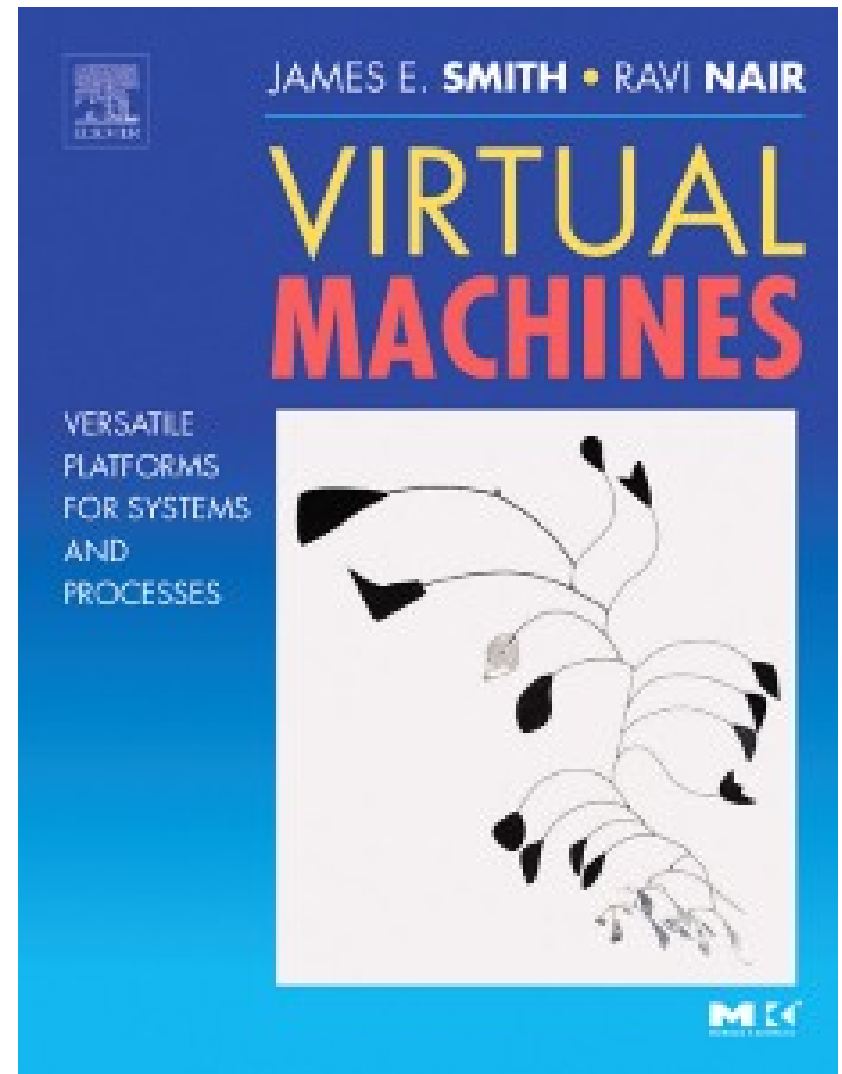
# Book



- Second Edition
- 2007
- Basis for Lectures
- Basis for Exam
  
- Missing:
  - Virtualization
  - Cloud computing

# Optional Book

- Virtual Machines
- James E. Smith
- Ravi Nair



# This Block

- Monday and Thursday
  - 10:15 Lectures
  - Arno Bakker, Jaap van Ginkel, Guest speakers
- Wednesday
  - Colloquia/company visits
  - Extra lectures
  - Lab and Project time

# Guest Speakers

- P. Lexis:
  - Software Packaging and Configuration Management
- S. van den Brand (Rabobank):
  - Legacy in large-scale systems
- E. Schrijvers:
  - Scaling
- H. Steenman
  - AMS-IX
- You?

# Site Visits

- NPO
- XS4ALL
- Equinix
- SURFsara/Vancis
- SURFnet

# Labs

- Arno Bakker & Mick Pouw
  - Week 2-3 lab assignments
  - Week 3-7 project
- Assignments must be graded sufficient to pass course!



# Projects

- Group Size 2
- Different partner as with SSN or RP1
- Preferably own idea
- Anything goes if it is “Large scale IT”
- Subject you didn't work on before
- Project Proposal approved in week 3

# Subjects

- Monitoring
- Help desk software (call tracking)
- Unattended OS installs
- Project management methods/evaluation
- Inventory / asset management
- Identity management
- Software distribution / Patch management
- Domotics / Sensor networks
- Contingency planning
- Remote control (servers/workstations)
- Cloud computing / Clustering

# Presentations

- Monday, March 21
- 10-15 minutes per project /
- Previous research / literature: discuss
- Your approach / Experiments
- Open standards, Preferably Open Source
- Scaling !
- Example implementation
- Conclusion / Your contemplations and judgement

# Reports

- Deadline March 27, 23:59
- Indicate who wrote what
- Content
  - Abstract
  - Research Question
  - Method/Research
  - Conclusions
  - Discussion/future work
  - Literature
- Email the doc and wait for confirmation

# Grading

- Presentation 10%
- Report + work done 40%
- Exam 50 %
- Average above 5.5