

COMP 5524: Workflow Management and Collaborative Systems

Dr. Ajay Kumar
Department of Computing
The Hong Kong Polytechnic University

COMP 5524

➤ Lecture Schedule:

- Monday (EF 312, 18:30-20:30 Hrs)

➤ Course Material → Accessible from *WebCT*

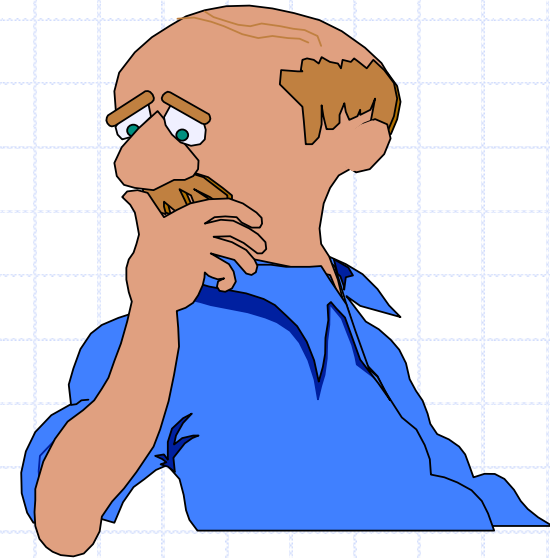
- Lecture Slides, Videos'
- Assignments, Solutions
- Online References, Articles, and Links
- Course Website:
<http://www.comp.polyu.edu.hk/~csajaykr/teaching/comp5524/2012/comp5524.htm>

➤ Teaching Assistance:

- Chun-Wei Tan
- Email: cscwtan@comp.polyu.edu.hk, Ph: 4901

About Me

- Research
 - Computer Vision, Pattern Recognition
 - Biometrics, Industrial Inspection
- Department of Computing
- Office: PQ 835
- Email: WebCT Email (no spam filtering)
- Office hours: by appointment via email



Course Outline

➤ Objectives

- Understand the Design and Development of collaborative Systems → Streamline Organizational Business Processes
- Industry Standard → BPMN, WfMC workflow reference model, XML consortiums formed in various industry
- Business Process Re-engineering, Balanced Scoreboard Framework, Process Lifecycle, Process Modeling and Analysis, System Integration through EAI and XML technology, Document Management, CA/PKI Infrastructure

➤ Indicative Textbooks

- Rashid N. Khan, Business Process Management: A Practical Guide, Meghan-Kiffer Press, 2004.
- Dave Chaffey, Groupware, Workflow and Intranets: Re-engineering the Enterprise with Collaborative Software, Digital Press, 1998.

Course Material

➤ Lecture Material

- Copies of slides provided weekly on class website
- Slides are only an aide memory,
- Attend Lectures
 - ◆ Lectures gives you detailed point-wise meaning
 - ◆ Slides may change
- Roughly follow keyword syllabus
- Only selected subset of topics from recommended textbooks
- Enriched with material from further sources (Journals/Articles)

➤ Course Format

- Lectures, Discussions
- Lab tutorials for hands-on experience
- Case analysis
- Presentations on specific topics

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What do I learn in this course?

- Become better informed users, customers and/or professionals in the application and use of groupware systems
- Develop a thorough knowledge of improving business performance through office automation & workflow applications
- How to use workflow/webflow automation to
 - ◆ Improve operations
 - ◆ Create and automate new services (save \$\$\$)
 - ◆ Increase customer intimacy
 - ◆ Promote competitive advantage
- Understand key industry standards and models
- Deepen critical-thinking and problem-solving skills

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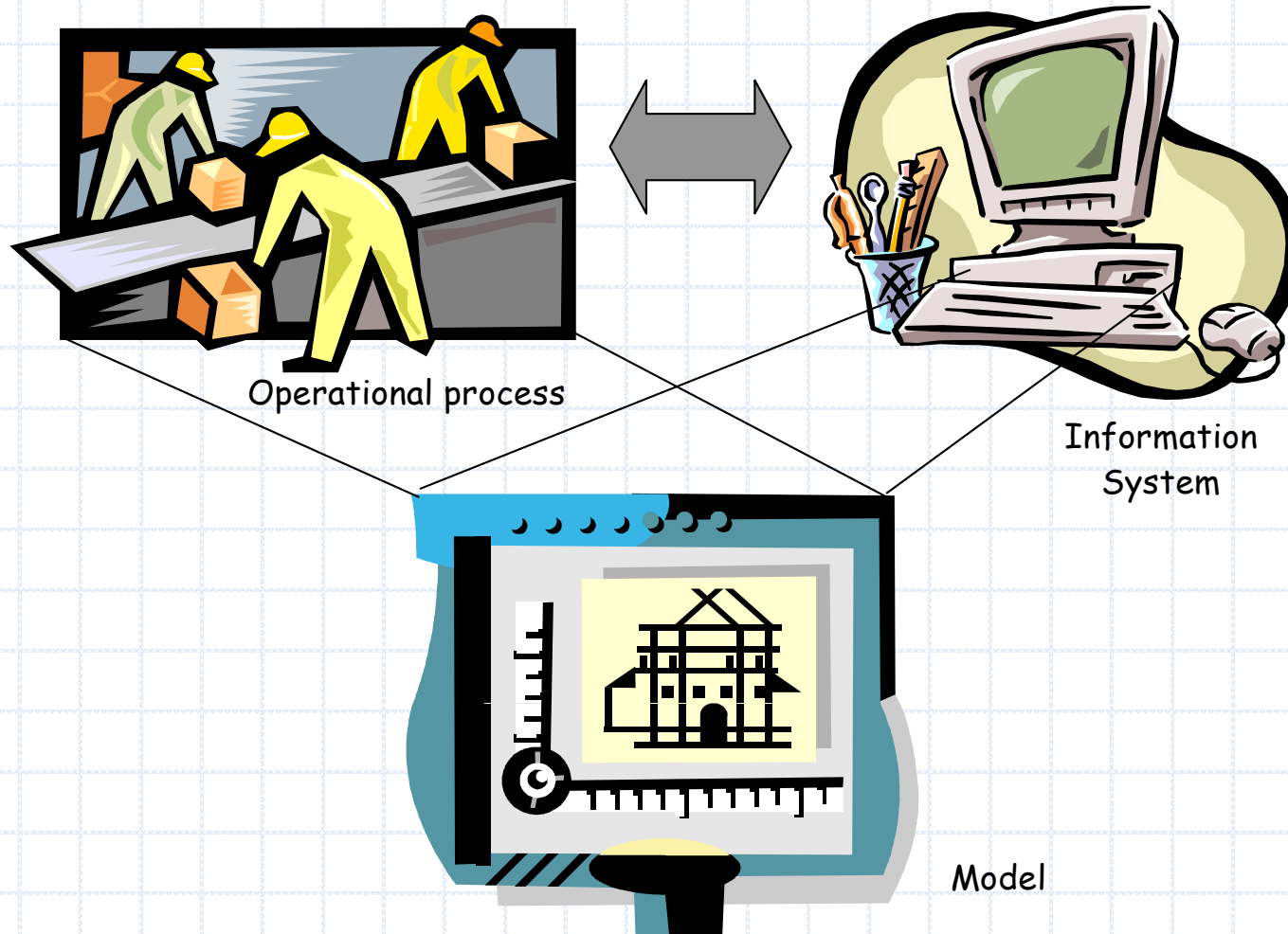
Why Workflow Management?

- *Better, Cheaper faster businesses*
- Improved efficiency → mostly through automation of business processes
- Improved customer service → through consistency in the processes
- Improved process control → helps management and improves overall quality of the outcomes
- Flexibility → software control over processes enables their re-design in line with changing business needs
- Business process improvement → through focus on business processes

Must understand and benefit from new realities

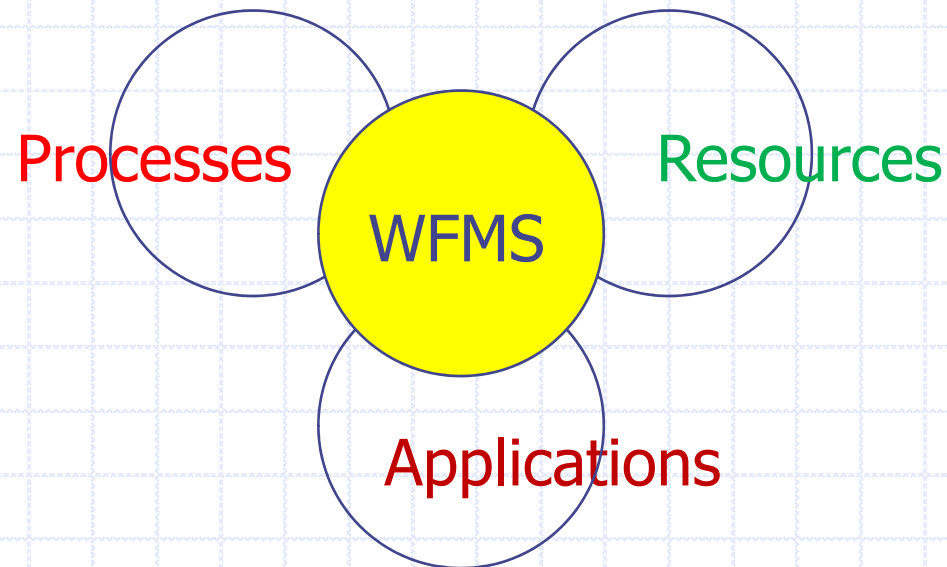
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► Focus of this Course → Models



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➤ Workflow Management



- Separation of processes, resources and applications
- Focus → Logistics of work processes
 - ◆ Not on the contents of individual tasks
- **It is not sufficient to just understand the workflow models**
 - ◆ *You have to be able to design them yourself → Hands-on-experience*

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➤ Focus of this Course → Models

Workflow Management Coalition

WfM
fC

 **TIBCO**[®]
The Power of Now[®]

IBM. **WebSphere.** software

 **Lombardi**

COSA
THE BPM EXPERTS
an  ACN company

 Microsoft
Dynamics™

SAP

ORACLE[®]

 **BIZAGI**



ROSETTANET
eBusiness Standards for the Global Supply Chain

Lecture Format

- Slides and transparencies
- Illustrative examples
 - Supplement the slides and transparencies
- Lectures
 - Come regularly
 - It is your responsibility to catch up your missed lectures with your friends
- Assignments
 - Tutorials
 - Important exercises to supplement the lectures
 - More rigorous problems to consolidate your knowledge

Tentative Schedule

- Introduction (1 week)
- Workflow Modelling (2 weeks)
- Workflow Management (2 weeks)
- Workflow Analysis/Design/Practices (1 week)
- Groupware Systems/Functions (1 week)
- Balanced Scorecard Framework (2 weeks)
- B2B Integration (1 week)
- Introduction to XML (2 weeks)
- Public Key Infrastructure (2 weeks)

Assessment

Continuous Assessment

- 45%
- Two Assignments
 - ◆ Assignment # 1: Individual Assignment, *Released: 07 February*
Deadline for Submission: 26 February
 - ◆ Assignment # 2: Group Assignment, *Released: 27 February*
Submission Deadline: March 25
Requires Class Presentation

Examination

- 55%
- No make up examination
- Will cover material in assigned readings
- Material included in the lecture, closed-note and closed-book

Thou Shall Not Cheat

- Do not cheat
- I encourage you to discuss your assignments with your friends
 - Put everything in your own words
- But no copying
 - It is NOT a shame of not knowing how to do
 - Copying causes damage to your integrity and respect
 - Copying is stealing intellectual property
 - TAs will catch cheaters
- What if you are caught copying?
 - Both the copier and the originator get 0
 - 2nd time: Both get 0 *and* one full downgrade
 - Caught 3rd time: FAIL
 - If it is minor or major, an automatic FAIL

WARNING



WARNING

*It is not sufficient to understand the workflow models
You should be able to design them yourself !*

WARNING



WARNING

***Start early with the lab practice sessions and assignments
You really need the time !!***