Scalable Uncertainty Management

00 - Organization

Rainer Gemulla

April 20, 2012

Lecture

- Website & news
 - http://www.mpi-inf.mpg.de/departments/d5/teaching/ss12/sum/
 - Access from outside: sum / certain
- When?
 - Friday, 2:15PM-3:45PM, R021, building E1.4 (MPI-INF)
- Who?
 - Lecturer: Rainer Gemulla
 - TAs: Luciano del Corro, Kaustubh Beedkar
 - Contact: sum12@mpi-inf.mpg.de
- For whom?
 - Bachelor, master & grad school students
 - Computer Science / Computer and Communications Technology
 - 6 credit points
- Assumed knowledge (briefly refreshed in lecture)
 - Database management systems
 - ▶ Basic probability theory

Exercise group

- When?
 - Weekly, probably starting Apr 30 May 5
 - Vote until Apr 26 for time slot at http://www.doodle.com/8hxqxkrs86cbwbwg

How?

- Run by Luciano del Corro and Kaustubh Beedkar
- Solutions presented by students
- Presenters must send in solutions 2 days in advance: sum12@mpi-inf.mpg.de; we provide timely feedback
- Q&A and discussions

	10:00 AM SUM Tutorial		10:00 AM SUM Tutorial	
	Yes No		Yes No	
2:00 PM SUM	2:00 PM SUM	2:00 PM SUM	2:00 PM SUM	
4:00 PM SUM	4:00 PM SUM Tutorial	4:00 PM SLM Tiennal	4:00 PM SUM Tutorial	
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Goals

- Gain a comprehensive understanding of the topics discussed in class
- Discuss, solve, program, play

Certificate

- Registration in HISPOS
 - Must!
- Present ≥ 2 convincing solutions in exercise group
 - Must!
 - ▶ Bonus points for presenting more than 2 solutions (up to 2) or solving bonus exercises (up to 3)
- Actively participate in exercise group
 - Should!
- Oral exam
 - Must!
 - ► At end of semester (probably Jul 30 Aug 3)
 - ▶ In English (or, upon prior request, in German)
 - ▶ Bonus points can be used to improve grade (up to 0.1 per BP)
 - ▶ We test *understanding*, not learning by heart
 - \rightarrow Example questions in exercises

What to expect?

- From us
 - Lecture notes and assignments online day before lecture (hopefully!)
 - Feedback on your exercises
 - ★ Individual or group solutions
 - ★ Send to sum12@mpi-inf.mpg.de
 - Discussion of issues and questions around the course
 - * Email us!
 - ★ Appointments on demand
 - Anything you'd like to add?
- From you
 - Be here (physically and mentally)
 - Be active (ask questions, answer questions)
 - ► Laptops for note-taking only
 - Work through exercises before exercise group

Literature

- SUM is a recent and active research topic
 - → few established textbooks
- Dan Suciu, Dan Olteanu, Christopher Ré, Christoph Koch Probabilistic Databases Morgan & Claypool, 2011
- Charu C. Aggarwal (Ed.)
 Managing and Mining Uncertain Data Springer, 2009.
- Daphne Koller, Nir Friedman
 Probabilistic Graphical Models: Principles and Techniques
 The MIT Press, 2009
- More in lecture notes