

Faculty of Computer Science Institute of Systems Architecture, Chair of Privacy and Data Security

Privacy-Enhanced Event Scheduling

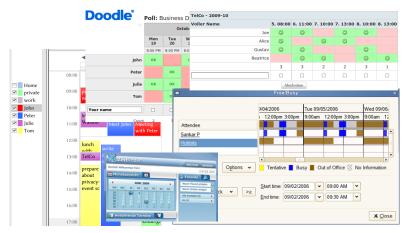
http://dudle.inf.tu-dresden.de

Sandra Steinbrecher

Frankfurt, Germany, March 29, 2010



Event Scheduling





Direct Inference

Will my husband vote for the date of our wedding anniversary?

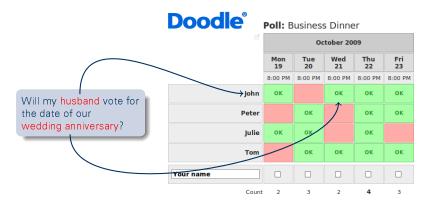
Doodle®

Poll: Business Dinner





Direct Inference





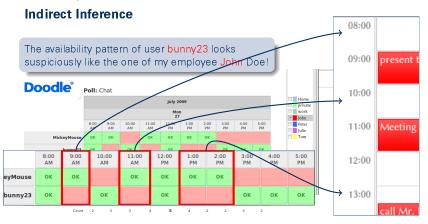
Indirect Inference

The availability pattern of user bunny23 looks suspiciously like the one of my employee John Doe!











Business Dinner

	Apr 2010						
	Mon, 12	Tue, 13	Wed, 14	Thu, 15	Fri, 16		
Name ▼ ▲	20:00 ▼▲	20:00 ▼▲	20:00 ▼▲	20:00 ▼▲	20:00 ▼▲		
Anonymous #1	Has voted anonymously.						
Anonymous #2	Has voted anonymously.						
Anonymous #3	Has voted anonymously.						
Anonymous #4	Has voted anonymously.						
total	1	3	2	4	2		



Business Dinner

	Apr 2010						
	Mon, 12	Tue, 13	Wed, 14	Thu, 15	Fri, 16		
Name ▼ ▲	20:00 ▼▲	20:00 ▼▲	20:00 ▼▲	20:00 ▼▲	20:00 ▼▲		
Bob	Has voted anonymously.						
Carol	Has voted anonymously.						
Alice	Has voted anonymously.						
Dave	Has voted anonymously.						
total	1	3	2	4	2		



Business Dinner

Apr 2010

Mon, 12 Tue, 13 Wed, 14 Thu, 15 Fri, 16

Name va 20:00 v





Business Dinner

Apr 2010

Mon, 12 Tue, 13 Wed, 14 Thu, 15 Fri, 16

Name va 20:00 va 20:00 va 20:00 va 20:00 va 20:00 va

Bob Has voted anonymously.

Carol Has voted anonymously.

Alice Has voted anonymously.

Dave Has voted anonymously.





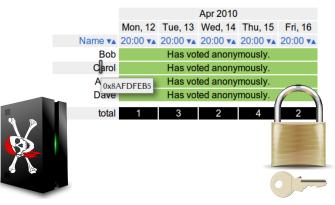
Business Dinner

Apr 2010 Mon, 12 Tue, 13 Wed, 14 Thu, 15 Fri, 16 Name ▼▲ 20:00 ▼▲ 20:00 ▼▲ 20:00 ▼▲ 20:00 ▼▲ Bob Has voted anonymously. Carol Has voted anonymously. Alice Has voted anonymously. Dave Has voted anonymously. total





Business Dinner





Register

Secret Key:

[1848baf5fbc94ac77119e2ea58af58f5c23cadfa5a08639516dcc82315fa6bad046cda38893fbf703d42c5152f587fcc14b721 3e7650504022160b7dff37235039951f0098b04b92957bf6b060477dbf3fee4a17bbb4385878098c2bff6f06831df4c

Cancel Login



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Thank you for your attention!

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Sandra Steinbrecher

Frankfurt, Germany, March 29, 2010