

Secure Multi-party Computation

What it is, and why you'd care

Manoj Prabhakaran

University of Illinois, Urbana-Champaign

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- ✦ Largely a well-kept secret

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 - ✦ Goal: Nothing should be revealed “beyond the result”
 - ✦ “Ideally”: Use a trusted third party
 - ✦ “Really”: Can’t agree on a trusted party. So...

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 - “Honest-but-curious”
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 - Simple (offline) trusted sources

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- ✦ Provide SMC as an “experiment support service”?
 - ✦ SMC offers a whole range of novel applications