

MSc thesis defense presentation

Αγαμέμνων Γιαννακόπουλος

defends his MSc thesis

Date:	Τρ ^{τη} , 28 Φεβ 2017
Ώρα:	16:00
Location:	Σχολ ^η Ηλεκτρολ ^ο γων Μηχανικ ^η ν και Μηχανικ ^η ν Υπολογιστ ^η ν, ΕΜΠ (παλαι ^α κτ ^η ρια), 1.1.31
Thesis title:	Learning Poisson Binomial Distributions with Differential Privacy
Committee:	<ul style="list-style-type: none">• Δημ^ητρης Φωτ^ηκης• Αριστε^ρδης Παγουρτζ^ης• Ευστ^αθιος Ζ^ηχος

Thesis abstract

This thesis tries to leverage two major research areas. The first area concerns the Distribution Learning Theory and the second the Differential Privacy. More specific, given a highly efficient algorithm which learns with ϵ -accuracy a Poisson Binomial Distribution we try to study its Differential Privacy property. We show that the Algorithm achieves Differential Privacy under specific circumstances (regarding PBD nature). If the PBD close to a (n,k) -Binomial form the algorithm is Differential Privacy. If the PBD is close to a k -sparse form algorithm's privacy depends on PBD cardinality.

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