

MSc thesis defense presentation

Αγαμέμνων Γιαννακόπουλος

defends his MSc thesis

Date:	Τρτη, 28 Φεβ 2017
Ώρα:	16:00
Location:	Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, ΕΜΠ (παλαιό κτίριο), 1.1.31
Thesis title:	Learning Poisson Binomial Distributions with Differential Privacy
Committee:	<ul style="list-style-type: none">• Δημήτρης Φωτιάκης• Αριστείδης Παγουρτζής• Ευσθέθιος Ζήχος

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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