

AlpT (@freaknet.org)

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Abstract

Questo testo e' una rielaborazione personale degli appunti presi durante il corso di , tenuto dal Prof. presso il dipartimento di Matematica, Catania, A.A. 2008/2009. Saro' ben lieto di correggere ogni eventuale errore che mi comunicherai.

Buon lettura.

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1 Case Splitting

Proposition 1.1. *Sia $B = B1 \cup B2$, con $B1 \cap B2 = \emptyset$, allora*

$$\Pr(A|B) = \Pr(A|B1)\Pr(B1|B) + \Pr(A|B2)\Pr(B2|B)$$

Proof: per definizione di $\Pr(A|B)$, e anche perche' $|A \cap B| = |A \cap B1| + |A \cap B2|$ □