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outstanding book Probability and Computing by Michael Mitzenmacher and Eli Upfal, ... 2 Probability and computing Why is probability important for computing? Why is randomness important for computing? Here are some example applications: Cryptography. Randomness is essential for all of crypto. Most cryptographical algorithms in-

Fall 2009 version of Course 15-359, Computer Science ...

quence arises with the same probability $1/12$, and ever v 2-bit sequence arises ith the same probability $1/12$, so Definition 9.2 is satisfied. We generalize from these examples to the following theorem. Theorem 9.4: Suppose that the value of a random variable X is chosen at random from the integers $\{0, -1\}$. so that $H(X) =$ Then there an ex-

Probability and Computing (Mitzenmacher, Upfal) - Sharif

probability, as tight an approximation of as we wish. This method for approximating IT is an example of a more general class of approxi- mation algorithms that we now characterize. Definition 10.1: A randomized algorithm gives an $(8, \delta)$ -approximation flor the value V if the output X of the algorithm satisfies $\Pr(|X-V| \leq \delta V) \geq 8$

Probability and Computing (Mitzenmacher, Upfal) - Sharif

'Of all the courses I have taught at Berkeley, my favorite is the one based on the Mitzenmacher-Upfal book Probability and Computing. Students appreciate the clarity and crispness of the arguments and the relevance of the material to the study of algorithms. The new Second Edition adds much important material on continuous random variables ...

Probability and Computing: Randomization and Probabilistic ...

@inproceedings{Mitzenmacher2005ProbabilityAC, title={Probability and computing - randomized algorithms and probabilistic analysis}, author={Michael Mitzenmacher and Eli Upfal}, year={2005} } Michael Mitzenmacher, Eli Upfal; Published 2005; The first topic that we are going to delve into is Discrete Probability. The following are the reference ...

Probability and computing - randomized algorithms and ...

Randomization and probabilistic techniques play an important role in modern computer science, with applications ranging from combinatorial optimization and machine learning to communication networks and secure protocols. This textbook is designed to accompany a one- or two-semester course for advanced undergraduates or beginning graduate students in computer science and applied mathematics.

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Michael Mitzenmacher and Eli Upfal, Probability and Computing: Randomized Algorithms and Probabilistic Analysis, Cambridge University Press, 2005. See here for errata in the first and second printing of the book.

CS 174: Combinatorics and Discrete Probability

Probability and Computing: Randomization and Probabilistic Techniques in Algorithms and Data Analysis (2nd ed.) by Michael Mitzenmacher. Read online, or download in secure PDF or secure EPUB format

Probability and Computing (2nd ed.) by Michael ...

Readings: The required text for the class is Probability and Computing: Randomized Algorithms and Probabilistic Analysis , by Michael Mitzenmacher and Eli Upfal, Cambridge University Press, 2005. It is essential that all students have regular access to this book.

CS174: COMBINATORICS & DISCRETE PROBABILITY, FALL 2012

Randomization and probabilistic techniques play an important role in modern computer science, with applications ranging from combinatorial optimization and machine learning to communication networks and secure protocols. This 2005 textbook is designed to accompany a one- or two-semester course for advanced undergraduates or beginning graduate students in computer science and applied mathematics.

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Michael Mitzenmacher and Eli Upfal. Probability and computing: Randomized algorithms and

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