

به نام آن که جان را فکرت آموخت



دانشکده‌ی مهندسی کامپیوتر

سمینار

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زمان: یکشنبه ۱ مرداد ۱۳۸۵، ساعت ۱۱:۰۰ تا ۱۲:۰۰
مکان: تالار خوارزمی، دانشکده‌ی م. کامپیوتر

الگوریتم‌ها در عصر اینترنت

Algorithms in Internet Era

Abstract

In the last fifty years, theory of algorithms has been mainly devoted to understanding the capabilities and limitations of Turing or Von Neumann machine as mathematical models of the computer. Building upon various branches of mathematics (such as logic and combinatorics) and in collaboration with other areas in computer science (databases, networked systems, etc..) it has inspired us with beautiful results and challenging open questions.

However, our perception of computers and their applications has been evolving as well. In the last decade, we observed a paradigm shift in our computational platform from personal computers and workstations to networks of computers and especially the Internet. For understanding this new phenomenon and its evolution, it seems that we need to develop a new area that uses a fusion of ideas from algorithms, game theory, and random graph theory.

I will talk about some of the new ideas and open problems in that area.

Biography

Amin Saberi received his BS from Sharif University in 2000 and his PhD from Georgia Institute of Technology in 2004. He did a short Postdoc in Microsoft Research in the Theory group. He is an assistant professor in Stanford University since January 2005.