## Accepted Manuscript

Introduction to computer science and economic theory

Lawrence Blume, David Easley, Jon Kleinberg, Robert Kleinberg, Éva Tardos

PII:S0022-0531(14)00161-6DOI:10.1016/j.jet.2014.11.002Reference:YJETH 4339

To appear in: Journal of Economic Theory

Received date:	3 November 2014
Revised date:	8 November 2014
Accepted date:	8 November 2014

Please cite this article in press as: L. Blume et al., Introduction to computer science and economic theory, *J. Econ. Theory* (2014), http://dx.doi.org/10.1016/j.jet.2014.11.002

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### ACCEPTED MANUSCRIPT

# Introduction to Computer Science and Economic Theory $\stackrel{\Rightarrow}{\sim}$

Lawrence Blume<sup>a,b,c,\*</sup>, David Easley<sup>a</sup>, Jon Kleinberg<sup>a</sup>, Robert Kleinberg<sup>a</sup>, Éva Tardos<sup>a</sup>

<sup>a</sup>Cornell University, United States. <sup>b</sup>IHS, Vienna. <sup>c</sup>Santa Fe Institute, United States.

#### Abstract

This essay introduces the symposium on computer science and economic theory.

*Keywords:* Algorithmic game theory, Implementation, Learning in games, Mechanism design, Networks

JEL classification: C7, D6

#### 1. Introduction

Computer scientists and economists share interests in several areas of economic theory, and individuals from both groups have been working together and in parallel for approximately three decades. Interest in the interaction of computer science and economics has intensified in the last 15 years, fueled in large part by the development of large computer networks such as the Web and the Internet. The emergence of these new systems has caused a profound

Preprint submitted to Journal of Economic Theory

November 17, 2014

<sup>&</sup>lt;sup>\*</sup>The authors are grateful for support from: Blume, NSF Grant CCF-0910940, a WWTF grant, an ARO MURI grant; J. Kleinberg, NSF grants IIS-0910664 and CCF-0910940, an ARO MURI grant, a Google Research Grant, and a Simons Investigator Award; R. Kleinberg, NSF grant CCF-0910940, a Google Research Grant, and a Microsoft New Faculty Fellowship Award; É. Tardos, NSF grants CCF-0910940 and CCF-1215994, ONR grant N00014-08-1-0031, a Yahoo! Research Alliance Grant, and a Google Research Grant.

<sup>\*</sup>Corresponding Author

*Email address:* lb19@cornell.edu (Lawrence Blume)

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