

CSCI 3210: Computational Game Theory

www.mtirfan.com/CSCI-3210

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What's game theory?

Fun answer:

The theory behind why players fight to lose in the Olympics!



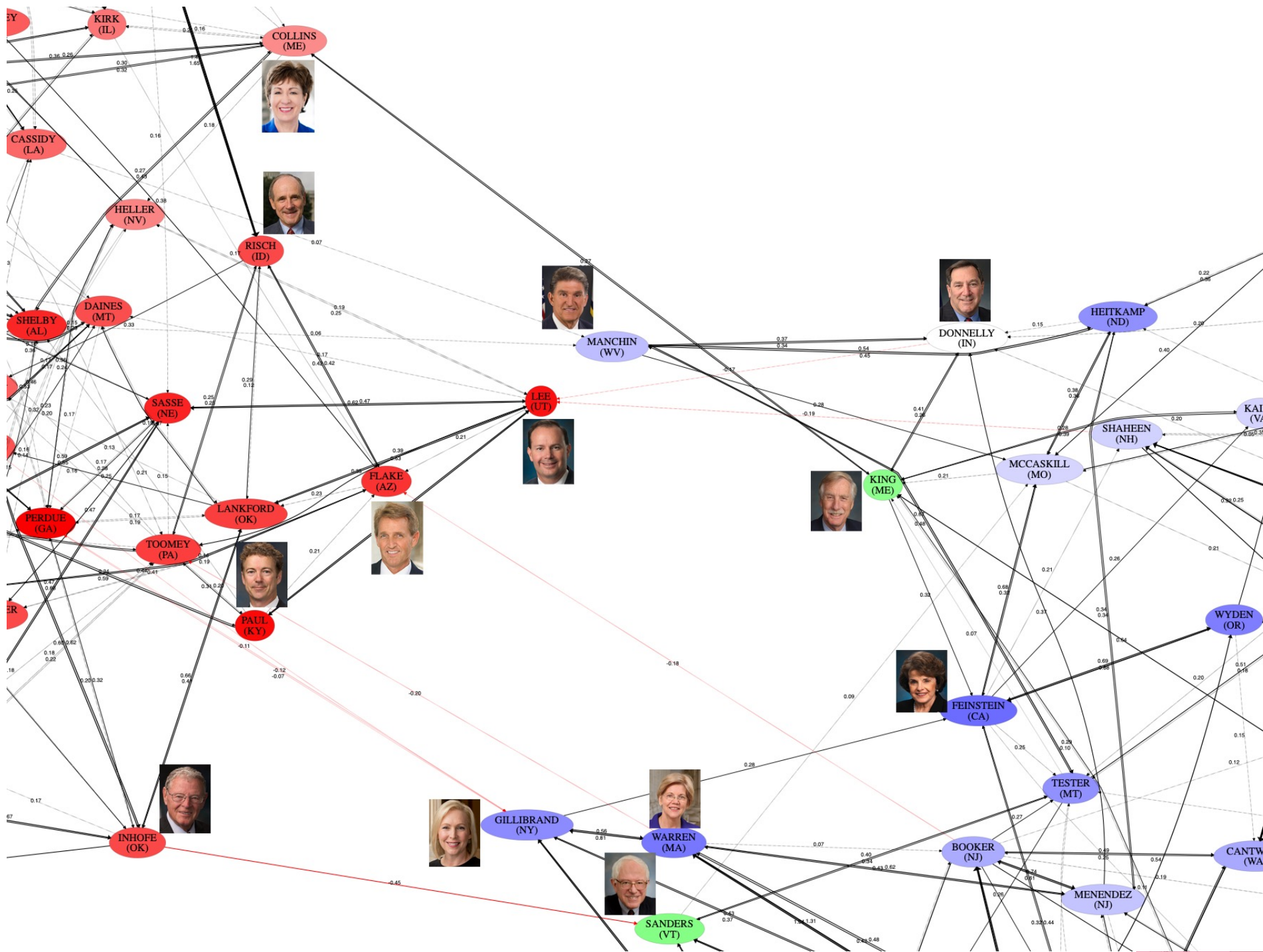
Nash equilibrium (?) and its inefficiency

Braess's paradox

Reading: Ch 8 of EK

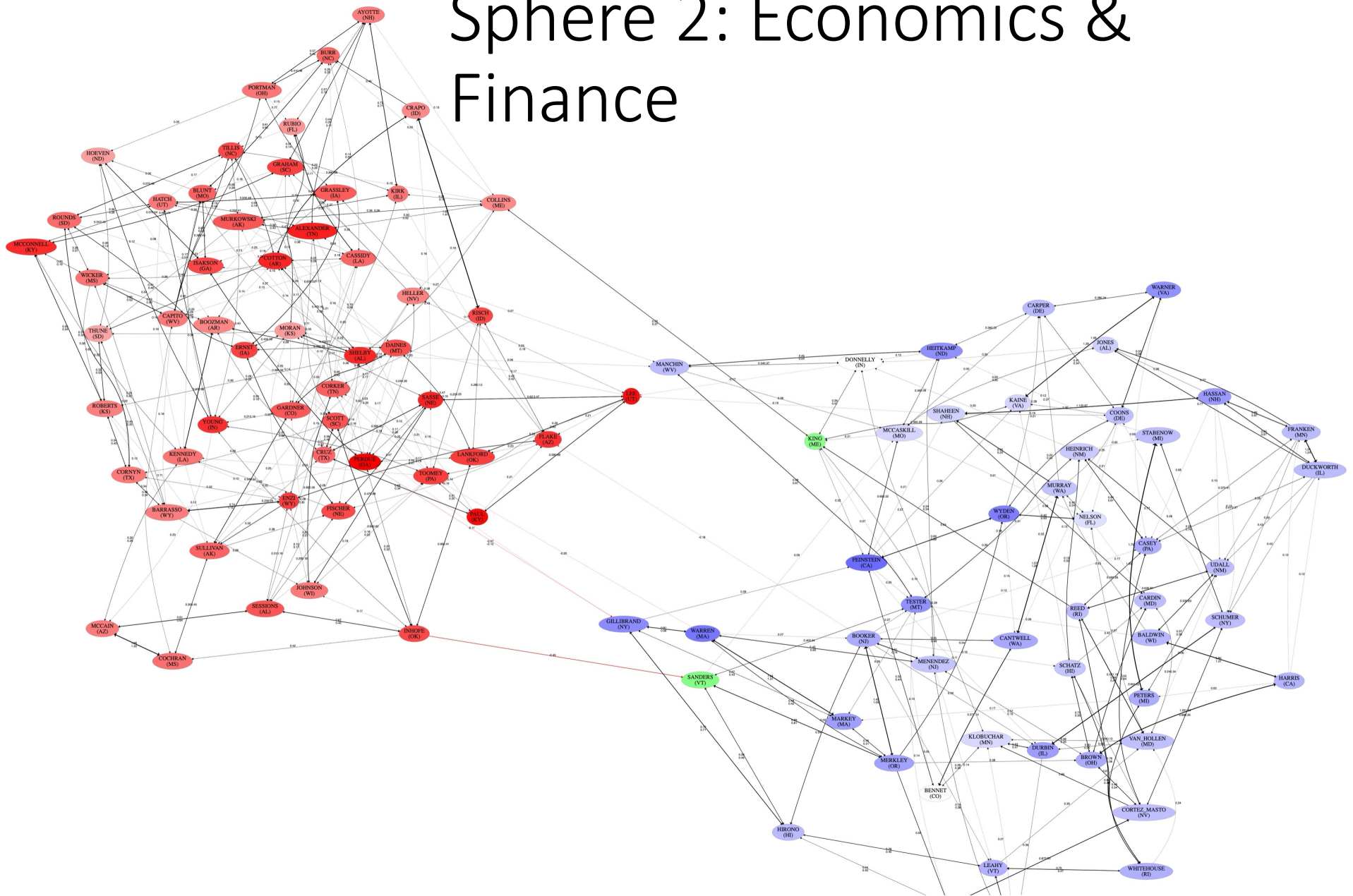
About myself





Sphere 1: Armed Forces

Sphere 2: Economics & Finance



Bowdoin Effort Earns Top Award at International Computer Science Conference Archives

July 31, 2018 by Tom Porter

Best Paper Award
AAMAS 2018



Professor Mohammad Irfan, in the middle, receives the Best Paper Award from AAMAS Program Chairs Gita Sukthankar (L) and Mehdi Dastani (R).

A research paper coauthored by a Bowdoin professor and one of his former students has earned the top spot at a recent computer science conference in Sweden. The paper employs computational game theory to model and predict congressional voting patterns. It was written by Assistant Professor of Digital and Computational Studies and Computer Science Mohammad Irfan and Tucker Gordon '17,

How Does Our Social Network Influence Our Behavioral Choices?

“No man is an island” wrote the poet John Donne in 1624, meaning whether we like it or not, we are all connected. It’s an assertion that rings truer than ever in today’s networked world, and it’s a central theme of the research currently being done by computer scientist Mohammad Irfan and his colleagues.

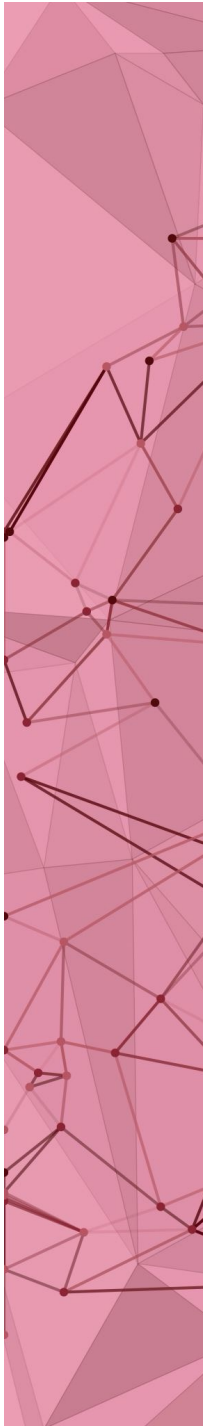
NSF Core Research Grant

Professor of Digital and Computational and Computer Science (CS) Irfan secured around half a million dollars for an exciting multiyear research project studying human interactions in networks. The research could have implications for many fields, he says, from public health to energy pricing to finance to the analysis of congressional voting patterns.

The award was made by the National Science Foundation (NSF) and done in collaboration with Luis E. Ortiz of the University of Michigan—Dearborn, for a multiyear research initiative. It’s all part of a core NSF program called Information and Intelligent Systems, says Irfan, who is the project director (while Bowdoin is the lead organization.)



I teach humans
intellectually challenging
courses with
care, compassion, and
emotional engagement.





About You

Course website for syllabus, slides, etc.

www.mtirfan.com/CSCI-3210

Canvas for assignments, books, etc.

