

## Department of Mathematics and Statistics



### Donald G. Saari

**Distinguished Professor of Mathematics and Economics**

**Director of the Institute for Mathematical Behavioral Sciences at the University of California Irvine**

**Member of National Academy of Sciences**

**Fellow of the American Academy of Arts and Sciences**

### Colloquium Lecture

**COMPLEXITIES RANGING  
FROM VOTING RULES TO  
MULTISCALE DESIGN**

***Thursday, January 31***

***4:00-5:00 p.m.***

***LSA 191***

***Refreshments will be served  
in PSA 206 at 3:15 p.m.***

It is election year, but will the outcomes reflect the views of the voters? Because of some mathematical complexities with voting rules, we may not. It is time to turn to that research project, whether from physics, biology, engineering, or even economic policy, attempting to connect behavior occurring on different scales. Will our results be successful? Because of a closely related mathematical complexity, we may not. Professor Saari will discuss all of these issues.

### Pizza Lunch for Graduate Students

***Thursday, January 31***

***12:00-1:00 p.m.***

***PSA 546***

Informal discussion with Don Saari about career in math and life as a mathematician. Graduate students are encouraged to participate.

### Math Biology Seminar

**THE EVOLUTION OF  
NEWTON'S UNIVERSE**

***Friday, February 1***

***3:40-4:30 p.m.***

***ECG 237***

After Newton solved the two body problem, he claimed that the three-body version gave him a headache. After explaining the source of Newton's headache, Professor Saari will describe how all possible  $n$ -body problems must evolve as time goes to infinity.