

# Distinguished Lectures

Fall 2016



**Colorado State University's Information Science and Technology Center (IStEc) presents two lectures by**

**Dr. Mark Gross**

Professor of Computer Science  
Director of the ATLAS Institute  
University of Colorado, Boulder

## IStEc Distinguished Lecture

In conjunction with the Department of Electrical and Computer Engineering,  
and Department of Computer Science Seminar Series

**"Design, Making, and Creativity (or  
Please Pass the Polymaths)"**

**Monday, Sept. 12, 2016**

**Reception with refreshments: 10:30 a.m.**

**Lecture: 11:00 a.m.-12:00 noon**

**Morgan Library Event Hall**

Department of Electrical and Computer Engineering, and Department of  
Computer Science Special Seminar Sponsored by IStEc

**"Computing in the Margins: A Radically  
Interdisciplinary Perspective"**

**Monday, Sept. 12, 2016**

**Lecture: 3:00-4:00 p.m.**

**Computer Science Building 130**

### Abstracts

#### ***Design, Making, and Creativity (or Please Pass the Polymaths)***

People enjoy making things, as the recently burgeoning "maker movement" shows. While often seen as a vehicle to engage young people in science, technology, engineering and mathematics (STEM), the maker movement presents far wider opportunities to engage people in design and creativity. The new machinery for making things—laser cutters, 3D printers and more—cry out for better tools and technologies for design, and practice making things invites people to become more creative. Some of the most exciting opportunities and powerful insights belong to polymaths who can defy conventional disciplinary boundaries and learn to apply expertise developed in one discipline to others.

#### ***Computing in the Margins: A Radically Interdisciplinary Perspective***

Computer Science isn't what it used to be. Today some of the most interesting work is done in the margins between computing and other disciplines. Insights from computing further research in other disciplines, and insights from the disciplines lead to computing inventions. The boundaries are blurred. Some of the most exciting work is happening at the intersection between people and computing, from traditional human-computer interaction to the internet-of-things to social media. At the University of Colorado's ATLAS Institute we embrace this diversity, which draws students and faculty members from a wide spread of disciplines and backgrounds to collaborate on projects from robotics and music to design tools for 3D printing.

### Speaker Biography

Mark D. Gross is Professor of Computer Science and directs the ATLAS Institute at the University of Colorado, Boulder. His interests include design methods, modular robotics, computationally enhanced construction kits and crafts, sketch tools and applications, and physical computing. Gross is co-founder with former students in three local companies spun out of his university research laboratories. Gross has taught computational design at CU at the University of Washington Seattle, and at Carnegie Mellon University. In the 1980s worked at Atari's Research Laboratory in Cambridge, Massachusetts. He earned his bachelor's and doctoral degrees from the Massachusetts Institute of Technology where, in the 1970s, he worked at the Artificial Intelligence Logo Laboratory and the Architecture Machine Group, as well as a stint programming optical character recognition at Kurzweil Computer Products.

To arrange a meeting with the speaker, please contact Prof. Anura Jayasumana, 970-491-7855, (Anura.Jayasumana@ColoState.edu).

## Upcoming Distinguished Lectures

**October 3**

**"Intersections  
Between Information  
Technology Research  
and Public Policy"**



**Morgan Library Event Hall**

**Dr. Scott Jordan**

**October 17**

**"Towards a Science of  
Complex Data"**



**Morgan Library Event Hall**

**Dr. Alfred O. Hero III**

**October 24**

**"Machine Learning  
and Democracy: Some  
Problems in Collective  
Decision-Making"**

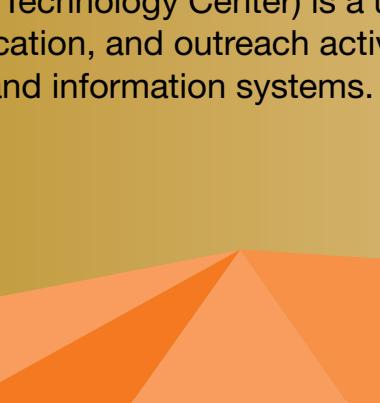


**Morgan Library Event Hall**

**Dr. Sanjeev Kulkarni**

**December 5**

**"Quantitative  
Ethnography: Measuring  
Complex Thinking Using  
Grounded Data"**



**Morgan Library Event Hall**

**Dr. David Shaffer**