ISTeC (Information Science and Technology Center) Research Advisory Committee
Retreat on the Scientific and Engineering Foundations of Information Science and
Technology
Saturday, May 8, 8:15am to 3:00pm, Lory Student Center

DOSSIER

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Research Interests (one paragraph):
Design and analysis of algorithms, with particular emphasis on graphs (networks) applications motivated by molecular biology. Also, how software reliability issues impact algorithm design.

Titles of current research projects (funded or not):
Inference of phylogenetic trees from distance matrices.
Algorithms for solving the physical mapping problem, given certain types of data about how DNA fragments intersect on the genome.
Algorithms that produce authenticating certificates with each output, to prove that the output has not been compromised by a bug.
Use of graph algorithms in database security

Current collaborations inside and outside your department:
Jeremy Spinrad – Vanderbilt
Fabien de Montgolfier, LIRMM, Montpellier, France
Wen-Lian Hsu, Academia Sinica, Taiwan
Andrzej Ehrenfeucht, University of Colorado, Boulder
Indrakshi Ray, Alexander Hulpke, Jason Connor, Priya Venkataraman, Ben Joeris, - CSU

Breakout sessions you would like to attend at the retreat (please rank order from 1 to 3):

2	Alternative models of computing
	Computing and information processing in support of basic science and engineering
	Dense sensor networks
	Imaging and tracking
1	Automatic image, text, and speech recognition for multimodal interfaces and search engines
	Other (Please suggest a title.)

Faculty at CSU whom you would like to see included into your preferred breakout group:
One optional paragraph you would like other participants to read before the retreat: