

Daniel D. McCracken
Computational Sciences
Seminar Series

Monday 4:00 p.m., October 27, 2003
Hebeler, Room 121

Dr. Boris Kovalerchuk

Dep't Computer Science, CWU

From Greek Mythology to
Modern Image Processing
– the Procrustes Problem 2

Abstract: In February 2003 Dan Curtis (Math Dept) presented at this seminar the Procrustes Problem for industrial tasks. This talk will focus on an algebraic solution for basically the same problem, but for another domain - image processing. We consider a difficult problem - seamless combination of images and geospatial data. It was discovered in our research that the traditional view that geometric and topological languages are sufficient for this problem is not correct. In fact the mathematics required is an abstract algebra. In addition to an outline of the algebraic solution method, the involvement of Procrustes will be explained and some examples of geospatial data matching/conflating/fusing situations where this problem arises will be described.

Supported by: CWU Faculty Senate Dev't & Appropriations Committee
For more info. please contact: Drs Glasby 963 2123, or Kovalerchuk 963 1438