PhD Position in Computational/Applied Mathematics

Re: PhD Position in Applied Mathematics, University of Houston

The Department of Mathematics at the University of Houston invites applications for a PhD Research Assistant (RA) position in applied/computational mathematics. The full-time RA position covers 3 years, and is offered in the context of a scientific project supported by an NSF grant, and involves three UH Mathematics professors (Robert Azencott, Jiwen He, Andreas Mang). The main research task is the preparation and completion of a PhD thesis under the joint scientific direction of Robert Azencott, Jiwen He, and Andreas Mang.

We are especially interested in candidates that have a strong background in applied mathematics and scientific computing with application to one or more of the following fields: variational inequalities, optimization theory, inverse problems, optimal control, statistical inference, data mining and machine learning, and/or shape recognition. The area of research for this PhD thesis is the design and analysis of innovative methods for data mining on very large sets of deformable 3D-shapes to enable automatic classification and clustering of shapes and shape deformations. Testing these new methods will involve computer-intensive implementations on large databases of 3D-shapes (mostly extracted from biomedical image data).

Review of applications will begin immediately and will continue until the position is filled. Please send a resume, a cover letter/letter of application, and unofficial transcripts to

Robert Azencott (razencott@uh.edu)

and CC Andreas Mang (andreas@math.uh.edu) and Jiwen He (jiwenhe@math.uh.edu).

The University of Houston is one of the most diverse research universities in the nation. It is an Equal Opportunity/Affirmative Action employer.

Inquiries about the position may be directed to Robert Azencott (razencott@uh.edu) and/or Andreas Mang (andreas@math.uh.edu).