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December 5, 2007

Members of Search/Hiring Committee  
Post-doctoral Fellow or Assistant Professor Position

Dear Search/Hiring Committee Members,

I am a Ph.D. candidate in the Department of Computer Science at the University of Iowa. My thesis advisor is Professor Sriram Pemmaraaju. I am expecting to graduate in Summer 2008. I am looking for a **post-doctoral fellowship** or **assistant professor** level position in the field of Computer Science or Applied Mathematics following my graduation. In the following, I describe my research interests and teaching experience.

My broad area of research interest is **distributed algorithms**. Currently, the focus of my research is in various algorithmic problems encountered in **wireless networks**. I study these problems using **approximation algorithms** on **graph-theoretic models**. Some of my recent work has addressed the problem of extending the lifetime of a wireless sensor network without sacrificing coverage responsibility, avoiding interference in radio networks, constructing geometry of *unit disk graphs* from connectivity, geographic routing that goes beyond standard face-routing protocols in realistic wireless network models, and covering an area using at most a specified number of base-stations while minimizing the sum of their transmission ranges.

I have gained substantial experience as a teaching assistant in the Department of Computer Science at the University of Iowa. My teaching experience is broad in two important ways: I have been involved in teaching a diverse group of students ranging from freshmen to graduate students, and I have been a teaching assistant for a variety of courses from a first computer programming course in Java to Automata Theory. I have interacted directly with my students mostly while running discussion sessions and sometimes while filling in for regular faculty members.

I believe that I am a candidate whose experience and interests are appropriate for an assistant professor level or post-doctoral fellow position in Computer Science. For more details on my teaching/research experience, please visit <http://www.cs.uiowa.edu/~pirwani/jobapplication.html>. Please feel free to contact me if you should require more information about my credentials.

Sincerely,

Imran A. Pirwani