

POST DOCTORAL (RESEARCH) RECRUITMENT

Computer Science Department, University of Memphis

Wireless Sensors and Mobile Ad Hoc Networks (WiSe MANet) Lab at the University of Memphis invites applications for a

Two Year Postdoctoral Research Position

The successful applicant will be involved in NIH and NSF funded highly-visible interdisciplinary projects involving wireless sensors. The NIH funded AutoSense project involves developing novel body area wireless sensor networks that enable remote physiological monitoring of healthy individuals in their natural living environments whereas the NSF funded AutoWitness system involves developing a large scale and real-time burglar tracking system. A second NSF funded project is developing mathematical foundations for coverage and connectivity for all wireless sensor applications that involve movement detection. These projects are highly interdisciplinary involving legendary Mathematicians, accomplished behavioral scientists, psychologists, biochemists, and electrical engineers from several other institutions such as Ohio State University and University of Minnesota. These projects provide an excellent opportunity for networking with established researchers in various disciplines and with program officers in federal funding agencies.

The work will involve extensive research in both theoretical and systems area. The ongoing research includes, but is not limited to developing distributed approximation algorithms, distributed randomized algorithms, and energy-efficient network protocols with provable mathematical guarantees. The research problems are derived from the challenges encountered in building real working systems that will be deployed in real-life studies. The candidate will work under the supervision of Dr. Santosh Kumar and will also receive guidance from Prof. Paul Balister and Prof. Bela Bollobas from Mathematical Sciences at the University of Memphis.

This position is for 12 months and is renewable for the second year.

Qualifications:

1. The successful candidate will have earned a PhD degree in Computer Science, Computer Engineering, or a related discipline such as Mathematics from a research university by Sep 2008;
2. Proven record of outstanding performance in a highly-competitive international research environment demonstrated by consistent publication in top level conferences and/or journals as primary author;
3. Strong research experience in network protocol design, distributed approximation algorithms, distributed randomized algorithms, random geometric graphs, and probability theory. Experience/exposure to localized game theoretic algorithms is a plus.
4. The position begins September 1, 2008.

Please send applications, including a complete CV, links to two representative published manuscript, and the names and contact coordinates of 3 references to chayes1@memphis.edu or via post to:

Department of Computer Science
Attn: Post Doc Search Committee
209 Dunn Hall
The University of Memphis
Memphis, TN 38152, USA

See the WiSe MANet Lab homepage (<http://www.cs.memphis.edu/~santosh/WiseManet/>) for details on the projects and for representative publications. Screening begins March 17, 2008 and may continue until the position is filled.

The University of Memphis is an Equal Opportunity Affirmative Action Employer. Women and minority candidates are encouraged to apply.