

Sustainable Computing



Barath Raghavan

Senior Researcher, Networking and Security Group

CURRENT RESEARCH

Computer science with an environmentally conscious lens

New technologies have allowed users to virtualize the physical in transportation, manufacturing and much more. For example, web-conferencing has become a solution for national and international companies allowing employees to communicate regardless of their location. Such technologies, that we are becoming more reliant upon, are yielding benefits in energy and resource use and decreasing environmental impact. Researchers are now investigating what the ramifications for such technologies may be in our futures; despite their environmentally friendly outcomes, scientists hope to continue to work towards the most sustainable practices thereby ensuring a viable future. Leading this charge is Dr. Barath Raghavan, of the International Computer Science Institute (ICSI), who uses technology to create a more socially responsible world. While his research is comprised of several seemingly unrelated projects, they have a cohesive theme of looking at and building computing systems and their interaction with society in a holistic manner. In addition to decreasing the environmental footprint of technology, Dr. Raghavan also works to make communication tools ubiquitous, secure, and affordable for the international community. Upon completion, his projects will secure Internet access for rural users, prevent government-imposed censorship, and decrease the energy and resource footprint of the Internet and related technologies.

Dr. Raghavan has a strong technical background in computer networking, security, and applied cryptography, and has developed that knowledge base over many years both in academic research and research and development in industry and consulting. Paired with this strong technical background is a deep...

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AFFILIATION

 International Computer Science Institute

EDUCATION

- Ph.D. in Computer Science and Engineering, 2009
University of California, San Diego
- M.S. in Computer Science and Engineering, 2006
University of California, San Diego
- B.S. in Electrical Engineering and Computer Science, 2002
University of California, Berkeley

AWARDS

- ACM SIGCOMM Green Networking Workshop best paper award, 2011
- ACM SIGCOMM Conference best paper award, 2007
- Woolley Graduate Leadership Fellowship, 2006
- PhD Fellowships at MIT, CMU, and University of Washington (declined), 2004
- NSF Graduate Research Fellowship, 2004

RESEARCH AREAS

Technology, Informational Sciences / Internet, IOT, Devices, Data, Clean Energy

FUNDING REQUEST

Your contributions will support the research of Dr. Barath Raghavan, of the International Computer Science Institute, as he increases access to communication and works towards more sustainable computing for society. Funding will support the necessary costs for personnel and deployments. In choosing to support his research, you will be a part of connecting technology and social responsibility for our future.