

FIKRET SIVRIKAYA

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RESEARCH INTERESTS

Algorithm Design and Analysis, Wireless Ad-hoc Networks, Synchronization and Scheduling, Distributed Algorithms... Current research focus is on the design of a new suite of protocols for wireless ad-hoc networks consisting of contention-free / limited contention Medium Access Control (MAC) and accompanying routing protocols for better latency, throughput and energy efficiency.

EDUCATION

- **PhD (pursuing), Computer Science,**
Rensselaer Polytechnic Institute, Troy, NY, USA
August 2002 - August 2007 (expected)
- **BS, Computer Engineering,**
Bogazici University, Istanbul, Turkey
September 1995 - June 2000

PUBLICATIONS & PUBLIC TALKS

- Malik Magdon-Ismael, Fikret Sivrikaya, Bulent Yener, “**Joint Problem of Power Optimal Connectivity and Coverage in Wireless Sensor Networks,**” ACM Wireless Networks (accepted, in press).
- Costas Busch, Malik Magdon-Ismael, Fikret Sivrikaya, Bulent Yener, “**Contention-Free MAC Protocols for Wireless Sensor Networks,**” In proceedings of the 18th International Conference on Distributed Computing (DISC 2004), Amsterdam, The Netherlands, pp. 245--259, October 2004.
- Fikret Sivrikaya, Bulent Yener, “**Time Synchronization in Sensor Networks: A Survey,**” IEEE Network magazine's special issue on ‘Ad Hoc Networking: Data Communications & Topology Control’, vol. 18, issue 4, pages 45-50, July/August 2004.
- M. Ufuk Caglayan, Fikret Sivrikaya, Bulent Yener, “**What is the Optimum Length of a Wireless Link?**”, UPGRADE, The European Journal for the Informatics Professional, vol. V, issue no. 1: "Wireless Networks", February 2004.
- Matt Edman, Fikret Sivrikaya, Bulent Yener, “**A Combinatorial Approach to Measuring Anonymity,**” IEEE International Conference on Intelligence and Security Informatics 2007 (ISI 2007), accepted.
- Fikret Sivrikaya and Bulent Yener, “**GreenWave Routing Trees for Wireless Sensor Networks,**” Technical Report, Rensselaer Polytechnic Institute, 2005.
- [Public Talk] “**Contention-Free MAC Protocols for Wireless Sensor Networks,**” International Conference on Distributed Computing (DISC 2004), Amsterdam, The Netherlands, 4-7 October 2004.

ACADEMIC EXPERIENCE

- **Graduate Research Assistant** (with Prof. Bulent Yener), August 2002 - Present
Computer Science Department, Rensselaer Polytechnic Institute, Troy, NY.
- **Teaching Assistant**, January 2004 – December 2006.
Computer Science Department, Rensselaer Polytechnic Institute, Troy, NY.

Courses Assisted: | Computer Algorithms
| Network Security
| Programming in Perl

PROFESSIONAL EXPERIENCE

Bizitek Software Development and Internet Technologies, Istanbul, Turkey

Software Developer & Project Executive, May 2002 – August 2002

Participated in a web-based software development project for Turkish Supreme Court - as the project executive and developer.

Self Employed, Istanbul, Turkey. April 2001 - May 2002

Some of the completed projects are listed below...

- www.cruiseline-tr.com (site update and maintenance) - January-August 2002
Worked for the worldwide cruise voyage company Cruiseline's Turkey office on a project including an email list management module, usage tracking and statistics module, detailed cruise ship information pages, flash animation design and many other small updates to the web site design and structure.
- Document Management Software "AjansTuba" - completed in December 2001
Developed software for a company that holds and distributes to its customers the databanks of Turkish laws and legislations. The developed software enabled users to search through legislation documents, browse them in categories, take notes or mark documents as favorites, and many other features to facilitate efficient use of the databank. Administration part of the program enabled document management and member accounts management.
- www.goz.gen.tr web site - completed in June 2001
Designed and developed an 'eye health center' web site, www.goz.gen.tr (content in Turkish). The project included the structural design of a web site, graphical design and online concept creation, and consultancy for the site owners on site content and structure.

UTEK Information and Telecom. Systems, Istanbul, Turkey

Internet Application Developer & Project Executive, March 1998 - April 2001

Worked as a web designer, web programmer and software developer at different times and for different projects. Developed and managed Internet application projects written mostly in ASP. Participated in each phase of designing and developing database integrated web applications. Some references are Shell Turkey Intranet web site, Betek Company Internet web site, and Raymond James Securities-Turkey Internet web site, which includes a web-interfaced module for management and online publication of research reports.

Eczacibasi Holding Company, IT Department, Istanbul, Turkey

Trainee, July 1997 - August 1997

COMPUTER SKILLS/TOOLS

- **Operating Systems:** Unix / Linux , Microsoft Windows family OS
- **Programming Languages:** C, C++, Java, Basic, C#, Perl
- **Web Development/Publication:** ASP, ASP.NET, PHP, VBScript, MS FrontPage, MS IIS, Apache Web Server
- **Database Design and Development:** SQL, MS Access, MS SQL Server
- **Graphics Development:** Adobe Photoshop, Adobe Illustrator, xFig
- **Simulation:** OPNET Modeler
- **Optimization:** AMPL modeling language, CPLEX LP/IP solver

LANGUAGES

- Turkish, Native
- English, Fluent

EXTRACURRICULAR ACTIVITIES

- Rensselaer Crew (Rowing Team) member and rower, 2003-2004.
- Rensselaer TURKSA (Turkish Students Association) Vice President, 2003-2005.
- Rensselaer Computer Science Dept. Intramural Soccer Team Co-Captain, 2005-2006.