Bahar Partov

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Résumé current as of May 20, 2019

Profile

I have a multidisciplinary background in engineering, computer science and mathematical modeling. I have hands on skills in building practical systems, modeling, mathematical analysis of the modern wireless networks as well as good understanding of Internet of Things applications. Looking for research based positions that align with my multidisciplinary background and personal interests.

Skills

Analytical: Mathematical modeling, convex/non-convex and distributed

optimization methods, wireless system design, statistical learning

Development: Python, C, C++, AWK, Perl, Bash **Tools:** MATLAB, R, Ns2, LaTEX, Adobe tools

Hardware: Optoelectronic devices (test and evaluation), programmable radios

(USRPs and PicoZed radios).

Research: Track record of research work appeared in top tier IEEE/ACM journals

and conferences: Goole scholar (Link)

Community: Mentoring, public speaking, organizing events

Work Experience

Wavelite (Rebranded as HaiLa) ventur, Co-Founder, Montreal, Canada 04/2017 - 05/2019 Funded by TandemLaunch Inc.

Wavelite is hardware/software IoT solution that aims at enabling scalable and sustainable development of IoT sensors. Wavelite addresses the key challenge with limited life time of wireless sensors. I worked as the technical lead, contributed towards building functional prototypes, technology roadmap creation, recruiting, and steering the software and hardware development. The company received a number of awards and recognition during my time there e.g. CES climate change award and being featured in RFID journal.

This involved using machine learning, and statistical method as well as mathematical analysis of these network's behavior, aiming to maximize utility fair objective functions. As well as working with large cell phone data sets in order to design an energy efficient deployment of the base stations. These works have been parts of my PhD thesis and lead to a number of publications in top tier journals and conferences.

Academics

Grants and Fundings

- Recipient of 60K CAD university-industrial partnership grants (by Mitacs) ... 06/2017, 10/2017 Provided internship opportunities for graduate students to collaborate on Wavelite's research and development in software, hardware, and RF design fields.
- Secured 600k CAD investment fund from TandemLaunch Inc. 07/2017 Recipient of Computing Research Association travel grant, MobiCom 10/2016 Recipient of N^2 Women young researcher fellowship 02/2015 Supported by Microsoft Research/HP labs

Hounours and Awards

Winner of Smart City FIA Global startup competition in Montreal	07/2017
Ranked 2nd among telecommunications master students	11/2009
Telecom Technologies prize awarded by university of Essex	11/2009
Ranked 1st among 2003 communications engineering students	09/2007

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Persian Women In Tech, Montreal, Organizer
AI for Social Good, summer school, <i>Lecturer and Mentor</i>
Toastmasters, Entrepreneurs' Club, Montreal, <i>Volunteer</i>
NetLab, Trinity College Dublin, Organizer
N^2 Women IEEE/ComSoc society, $Fellow$
IEEE conferences and Journals, <i>Volunteer Reviewer</i>

Selected Talks

Women in engineering McGill , 06/2018 Invited Speaker, "Wavelite in the Internet of Things era"

Microsoft Research Cambridge , 06/2016 Invited Speaker, "Resource Allocation for Next Generation of radio access Networks: how effective are my schedulers?"

University of Texas at Austin , 03/2015 Invited Speaker, "Utility Fair User Associations in LTE/WiFi Networks"

Other Interests

I enjoy playing violin and hammered dulcimer. I am a past member of University of Dublin choir. I like traveling as well as cycling, and other outdoor activities. I love to spend my spare time on reading (in specific interested in sociology, psychology, and history) and learning languages, currently enjoy learning French and Mandarin.