

Ajay S. Aravamudhan

CONTACT INFORMATION	Living Analytics Research Centre Singapore Management University School of Information Systems 80 Stamford Road Singapore 178902	<i>Mobile:</i> +65-9076-4167 <i>Fax:</i> +65-6828-0468 <i>E-mail:</i> ajaysa@smu.edu.sg
CITIZENSHIP	India	
RESEARCH INTERESTS	Optimization, game theory, resource scheduling under uncertainty, single and multi-agent decision making	
EDUCATION	Singapore Management University , Singapore M.S., Operations Management, August 2011 <ul style="list-style-type: none">• Thesis Topic: Optimal Advertisement Scheduling in Random Breaks Adviser: Professor Pascale Crama<ul style="list-style-type: none">◊ <i>We study ad scheduling policies in live broadcasting when breaks are of non-deterministic lengths and number. We characterize the optimal dynamic schedule in a simple setting with two ad lengths, and also present heuristics to solve the full size scheduling problem.</i>★ Graduated <i>Cum Laude</i> Anna University , India M.C.A, Computer Science and Engineering, June 2002 <ul style="list-style-type: none">• Systems software specialization★ Graduated with Distinction (top 8%)	
ACADEMIC APPOINTMENTS	Research Engineer Living Analytics Research Centre, Singapore Management University <ul style="list-style-type: none">• Research topic: Flow Behavior Modeling and Coordination in Dynamic Spatial-Temporal Networks Supervisor / PI: Professor Lau Hoong Chuin Co-PI: Professor Pradeep Varakantham, Dr. William Yeoh<ul style="list-style-type: none">◊ <i>We study the problem of crowd congestion in theme parks, and model it as a dynamic spatial-temporal network in order to create real time contextualized incentives to affect agent behavior and improve park utilization.</i>	August 2011 to present
PAPERS IN PREPARATION	Pascale Crama, Dana Popescu, Ajay S. Aravamudhan Maximizing advertising revenue when scheduling in random breaks <ul style="list-style-type: none">• Presented at INFORMS conference, November 2010	
AWARDS	Singapore Management University <ul style="list-style-type: none">• Graduate Research Scholarship, 2009–2011	
PROFESSIONAL EXPERIENCE	Engineer , Samsung Electronics Co. Ltd. Engineer , SCM Microsystems <ul style="list-style-type: none">• Embedded software development for inter-device communication protocols such as USB and wireless USB	January 2005 to February 2009 August 2002 to September 2004
SOFTWARE SKILLS	Modeling Languages and Solvers: <ul style="list-style-type: none">• MATLAB, GAMS, Lingo, IBM OPL Studio• CPLEX Computer Programming: <ul style="list-style-type: none">• C, C++, Javascript, shell scripting	

REFERENCES
AVAILABLE TO
CONTACT

Dr. Pascale Crama (e-mail: pcrama@smu.edu.sg; phone: +65-6828-0330)

- Assistant Professor of Operations Management, [Singapore Management University](#)
- ◊ Lee Kong Chian School of Business, 50 Stamford Road Singapore 178899
- ★ *Dr. Crama was my graduate adviser.*

Dr. Dana Popescu (e-mail: dana.popescu@insead.edu; phone: +65-6799-5435)

- Assistant Professor of Technology and Operations Management, [INSEAD](#)
- ◊ 1, Ayer Rajah Avenue, Singapore 138676
- ★ *Dr. Popescu is a mentor and a co-author of the paper we are working on with Dr. Crama.*

Dr. Pradeep Varakantham (e-mail: pradeepv@smu.edu.sg; phone: +65-6828-0519)

- Assistant Professor of Information Systems, [Singapore Management University](#)
- ◊ School of Information Systems, 80 Stamford Road Singapore 178902
- ★ *Dr. Varakantham is a mentor and a co-investigator in Living Analytics Research Centre, Singapore Management University.*