

VITA
Varun Dutt

GENERAL INFORMATION

Home Address:

749 S Millvale Avenue, Apt. #3,
Pittsburgh, PA, 15213-1132

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Email: varundutt@cmu.edu

Website: <http://www.contrib.andrew.cmu.edu/~vdutt/>

RESEARCH INTERESTS

Dynamic Decision Making, Behavioral Decision Making; System Thinking; Risk Perception and Risk Attitudes in Environmental Decision Making; Cyber Situation Awareness; Human Factors; Social-Cultural Dilemmas in Environmental Decision Making; Time Preferences in Environmental Decision Making; and, Cognitive Modeling using Decisions from Experience Methods

ACADEMIC TRAINING

| | | |
|----------------|---|------|
| Graduate: | Ph.D., Engineering and Public Policy, Carnegie Mellon | 2011 |
| | M.S., Engineering and Public Policy, Carnegie Mellon | 2010 |
| | M.S., Rational Simulation (in ACT-R), Carnegie Mellon | 2007 |
| | M.S., Software Engineering, Carnegie Mellon | 2006 |
| Undergraduate: | B. E., Computer Science and Engineering, Thapar University, India | 2004 |

SKILLS

I am currently a Post-Doctoral Fellow in the Department of Social and Decision Science at Carnegie Mellon University. I am applying my knowledge and skills in the fields of psychology, public policy, and computer science to explore how humans make decisions on social and environmental issues. My thesis has focused on answering the question: *why do we want to defer actions on climate change* and I have investigated the question by applying literature on people's risk-preferences, time-preferences, social-cultural dilemmas, and linear thinking. I have used lab-based methods involving human participants and cognitive models to investigate my research questions.

In addition to my thesis research, I have investigated how people explore and exploit alternatives and make decisions from experience in risk and uncertainty at both individual and group levels. For this investigation, I have created human factors and cognitive models of human behavior using principles of instance-based learning (aka, case-based reasoning), reinforcement learning, and Bayesian learning theories. The typical approach I have followed has focused on model creation, prediction, validation by running lab-based experiments, and further model generalization or model cross-validation in novel task situations.

Programming Languages Proficiency: ACT-R, VB-ACT-R (my own creation), LISP, Matlab, Visual Basic, ASP.NET, VB.NET, JAVA, HTML, PHP, MySQL, MS Office 2010, C, C++, Palisade Decision Tools, Inquisit by Millisecond Corp., SAS, SPSS, Amazon MTurk, Qualtrics, Survey Monkey, Google Adwords

Operating System Proficiency: Windows, Linux, UNIX, MAC OS X

ACADEMIC RESEARCH EXPERIENCE

| INSTITUTION | POSITION | DATES |
|---|---------------------|-------------------|
| Computing and Electrical Engineering and Humanities and Social Sciences, Indian Institute | Assistant Professor | June 2012 onwards |

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| of Technology (IIT), Mandi, India | | |
| Dynamic Decision Making Lab, Carnegie Mellon, Pittsburgh, PA, USA | Post-doctoral Fellow | Aug 2011 – May 2012 |
| Dynamic Decision Making Lab, Carnegie Mellon, Pittsburgh, PA, USA | Graduate Research Assistant | Aug 2007 – Aug 2011 |
| Dynamic Decision Making Lab, Carnegie Mellon, Pittsburgh, PA, USA | Research Programmer | May 2006 – Jul 2007 |

TEACHING EXPERIENCE

| INSTITUTION | POSITION | DATES |
|--|-----------------------------|---------------------|
| 88431: Dynamic Decision Making, Carnegie Mellon University, Doha, Qatar | Graduate Teaching Assistant | May 2007 - Jul 2007 |
| 19-752: EPP Project Mgmt, Carnegie Mellon University, Pittsburgh, PA | Project Manager | Jan 2010 - May 2010 |
| 05-775: Cognitive Perspective in HCI, Carnegie Mellon University, Pittsburgh, PA | Graduate Teaching Assistant | Jan 2010 - Feb 2010 |

PROFESSIONAL EXPERIENCE

| INSTITUTION | POSITION | DATES |
|---|----------------------|---------------------|
| Newspaper Financial Chronicle, Inc., India | Knowledge Editor | Dec 2008 – Present |
| Newspaper Economic Times, Inc., India | Freelance Journalist | Aug 2006 – Aug 2007 |
| Messenger Service Inc., Pittsburgh, PA, USA | Software Engineer | Aug 2006 - Sep 2006 |
| Tata Consultancy Services (TCS), India | Software Engineer | Feb 2005 - Jun 2005 |
| MotherSumi Infotech and Designs Ltd., India | Software Engineer | Aug 2004 – Jan 2005 |

SCHOLARSHIPS AND FELLOWSHIPS

| INSTITUTION | NAME | DATES |
|--|---|---------------------|
| Max Planck Institute for Human Development | Summer Institute on Bounded Rationality | Jul 2009 – Aug 2009 |
| Carnegie Mellon University | Steinbrenner Fellowship | Aug 2008 – Aug 2009 |
| Carnegie Mellon University | Dean's Fellowship | Aug 2007 - May 2008 |
| Carnegie Mellon University | ACT-R Summer School | Jul 2007 – Aug 2007 |
| Thapar University | Tuition Fellowship(1 st in Branch) | Aug 2000 – Aug 2001 |

BOOK PUBLICATIONS

Dutt, V. (2011). *Why do we want to defer actions on climate change? A psychological perspective* (Doctoral dissertation). Carnegie Mellon University. Pittsburgh, PA, USA.

JOURNAL PUBLICATIONS

Dutt, V., & Gonzalez, C. (2012). Making Instance-based Learning Theory Usable and Understandable: The Instance-based Learning Tool. Manuscript accepted for publication in *Computers in Human Behavior*. doi: 10.1016/j.chb.2012.02.006

Gonzalez, C., **Dutt, V.**, & Lebiere, C. (2011). Validating Instance-Based Learning Mechanisms Outside of ACT-R. Manuscript accepted for publication in *Journal of Computational Science*. doi: 10.1016/j.jocs.2011.12.001

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Dutt, V., & Gonzalez, C. (2011). Decisions from experience reduce misconceptions about climate change. Manuscript accepted for publication in *Journal of Environment Psychology*, n/a: n/a. doi: 10.1016/j.jenvp.2011.10.003

Dutt, V., & Gonzalez, C. (2011). Reducing the Linear Perception of Non-Linearity: Use of a Physical Representation. *Journal of Behavioral Decision Making*, n/a: n/a. doi: 10.1002/bdm.759

Dutt, V., & Gonzalez, C. (2011). Human Control of Climate. *Climatic Change*, n/a: n/a. doi: 10.1007/s10584-011-0202-x

Dutt, V. (2011). Explaining Human Behavior in Dynamic Tasks through Reinforcement Learning. *Journal of Advances in Information Technology*, 2(3), 177-188. doi:10.4304/jait.2.3.177-188

Dutt, V., Young-Suk, A., & Gonzalez, C. (2011). Cyber Situation Awareness: Modeling the Security Analyst in a Cyber-Attack Scenario through Instance-Based Learning. *Lecture Notes in Computer Science*, 6818, 280-292. doi: 10.1007/978-3-642-22348-8_24

Dutt, V., & Gonzalez, C. (2011). Why do we want to delay actions on climate change? Effects of probability and timing of climate consequences. *Journal of Behavioral Decision Making*, 24: n/a. doi: 10.1002/bdm.721

Gonzalez, C. & **Dutt, V.** (2011). Instance-based Learning: Integrating Sampling and Repeated Decisions from Experience. *Psychological Review*, 118(4), 523-551. doi: 10.1037/a0024558

Gonzalez C., **Dutt V.,** & Lejarraga T. (2011). A Loser Can Be a Winner: Comparison of Two Instance-based Learning Models in a Market Entry Competition. *Games*, 2(1), 136-162. doi: 10.3390/g2010136

Gonzalez, C., & **Dutt, V.** (2011). A Generic Dynamic Control Task for Behavioral Research and Education. *Computers in Human Behavior*, 27, 1904–1914. doi: 10.1016/j.chb.2011.04.015

Lejarraga, T., **Dutt, V.,** & Gonzalez, C. (2010). Instance-based learning: A general model of repeated binary choice. *Journal of Behavioral Decision Making*, 24: n/a. doi: 10.1002/bdm.722

Young, M. D., Healy, A. F., Gonzalez, C., **Dutt, V.,** & Bourne, L. E. (2010). Effects of training with added difficulties on RADAR detection. *Applied Cognitive Psychology*, 24, 1-22. doi: 10.1002/acp.1706

Dutt, V., Yamaguchi, M., Gonzalez, C. & Proctor R.W. (2011). An Instance-Based Learning Model of stimulus-response compatibility effects in mixed location-relevant and location-irrelevant tasks. Manuscript revised and resubmitted in *Cognitive Systems Research* (resubmitted October, 2011).

Dutt, V., & Gonzalez, C. (2011). Enabling eco-friendly choices by relying on the proportional-thinking heuristic. Manuscript submitted for publication in *Climatic Change* (submitted August, 2011).

Dutt, V., & Gonzalez, C. (2011). Effects of cost, timing, and probability of climate consequences in decisions from description and decisions from experience. Manuscript submitted for publication in *Behavioral Decision Making* (submitted October, 2011).

Dutt, V., Young-Suk, A., & Gonzalez, C. (2011). Cyber Situation Awareness: Modeling the Detection of Cyber Attacks with Instance-based Learning Theory. Manuscript submitted for publication in *Human Factors* (submitted November, 2011).

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Dutt, V., & Gonzalez, C. (in preparation). Prisoner's dilemma in climate negotiations.

Gonzalez, C., & **Dutt, V.** (in preparation). Many Roads Lead to Rome: Tradeoffs of aggregate performance and sequential learning in models of repeated choice.

NEWSPAPER PUBLICATIONS

More than 100 articles can be found here: <http://www.mydigitalfc.com/columnists/Varun-Dutt>

BOOK CHAPTER PUBLICATIONS

Dutt, V., & Gonzalez, C. (2011). Cyber Situation Awareness: Modeling the Security Analyst in a cyber-attack scenario through Instance-based Learning. A book chapter accepted in *Situational Awareness in Computer Network Defense: Principles, Methods and Applications*, edited by Cyril Onwubiko and Thomas Owens. doi: 10.4018/978-1-46660-104-8

Dutt, V., & Gonzalez, C. (2011). Responding linearly in nonlinear problems: Application to earth's climate. An invitation to write a book chapter in *Carbon Dioxide Emissions: New Research*, edited by Nadya Gotsiridze-Columbus.

Dutt, V. (2011). Reducing People's robust misconceptions about Climate Change. An invitation to write a book chapter in *Carbon Dioxide Emissions: New Research*, edited by Nadya Gotsiridze-Columbus.

CONFERENCE PUBLICATIONS

Dutt, V., & Gonzalez, C. (2011). Enabling eco-friendly choices by using human psychological biases. In *Paper to be presented at the 2011 Society of Risk Analysis Annual Meeting*. Charleston, SC, USA.

Gonzalez, C. & **Dutt, V.** (2011). Instance-Based Learning: Integrating Sampling and Repeated Decisions from Experience. In *Paper to be presented at the 32st Annual Conference of the Society for Judgment and Decision Making*. Seattle, WA, USA.

Arlo-Costa, H., **Dutt, V.**, Gonzalez, C., & Helzner, J. (2011). Decisions from Experience in Conditions of Uncertainty. In *Paper presented at Seventh International Symposium on Imprecise Probability: Theory and Applications*. Innsbruck, Austria.

Dutt, V., Yu, M., & Gonzalez, C. (2011). Deciding when to escape a mine emergency: Modeling accumulation of evidence about emergencies through Instance-based Learning. In *Paper to be presented at the HFES 55th Annual Meeting*. Las Vegas, Nevada, USA.

Dutt, V., & Gonzalez, C. (2011). Making Instance-based Learning Theory Usable, Transparent, and Understandable: Instance-based Learning Tool. In *Demonstration to be presented at the HFES 55th Annual Meeting*. Las Vegas, Nevada, USA.

Dutt, V., Young-Suk, A., & Gonzalez, C. (2011). Cyber Situation Awareness: Modeling the Security Analyst in a cyber-attack scenario through Instance-based Learning. In *Paper presented at the 25th Annual WG 11.3 Conference on Data and Applications Security and Privacy (to appear in Lecture Notes in Computer Science 6818 (LNCS 6818), Springer)*. Richmond, VA, USA.

Gonzalez, C., **Dutt, V.**, & Martin, J. (2011). Instance-Based Learning Model of a Continuum of Social Information in

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Conflict Situations. In *Paper presented at the 2011 International Conference on Behavioral Decision Making*. Herzliya, Israel.

Dutt, V., & Gonzalez, C. (2011). Reducing the Linear Perception of Nonlinearity: Use of a Physical Representation. In *Paper presented United States Society for Ecological Economics Conference*. East Lansing, Michigan, USA.

Dutt, V., Martin, J., & Gonzalez, C. (2011). Modeling Social Information In Conflict Situations Through Instance-Based Learning Theory. In *Poster presented at the 33rd annual meeting of the Cognitive Science Society*. Boston, Massachusetts, USA.

Dutt, V. (2011). Why Do We Want to Delay Actions on Climate Change? Effects of Probability and Timing of Climate Consequences. In *Paper presented at Princeton Graduate Student Conference on Psychology and Policymaking*. Princeton, NJ, USA.

Dutt, V. (2011). Why Do We Want to Delay Actions on Climate Change? Effects of Probability and Timing of Climate Consequences. In *Paper presented at the 4th Annual Graduate Student Appreciation Week "Impact with Innovation Exhibition."* Pittsburgh, PA, USA.

Dutt, V., Cassenti, D. N., & Gonzalez, C. (2011). Modeling a Robotics Operator Manager in a Tactical Battlefield. In *Paper presented at the IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support*. Miami Beach, FL, USA.

Dutt, V., Young-Suk, A., & Gonzalez, C. (2011). Cyber Situation Awareness: Modeling the Security Analyst in a cyber-attack scenario through Instance-based Learning. In *Poster presented at the 20th Behavior Representation in Modeling & Simulation (BRIMS) Conference*. Sundance Resort, Utah, USA.

Gonzalez, C., & **Dutt, V.** (2011). Instance-based Learning Tool: Making Instance-based Learning Theory Usable, Transparent, and Understandable. In *Tutorial presented at the 20th Behavior Representation in Modeling & Simulation (BRIMS) Conference*. Sundance Resort, Utah, USA.

Cassenti, D. N., **Dutt, V.**, Gonzalez, C., Pomranky, R., & Hunn, B. (2011). Defining a Robotics Operator Manager's Responsibilities Using ACT-R. In *Paper presented at the 20th Behavior Representation in Modeling & Simulation (BRIMS) Conference*. Sundance Resort, Utah, USA.

Lejarraga, T., **Dutt, V.**, & Gonzalez, C. (2010). Instance-based Learning in Repeated Binary Choice. In *Paper presented at the 31st Annual Conference of the Society for Judgment and Decision Making*. St. Louis, MO, USA.

Gonzalez, C. & **Dutt, V.** (2010). Instance-based Learning: Integrating Decisions from Experience in Sampling and Repeated Choice Paradigms. In *Paper presented at 2010 Experience, heuristics, and choice: Prospects for bounded rationality workshop at Carnegie Mellon University*. Pittsburgh, PA, USA.

Arlo-Costa, H., Gonzalez, C., **Dutt, V.**, & Helzner, J. (2010). Decisions from Experience in Conditions of Uncertainty. In *Paper presented at 2010 Experience, heuristics, and choice: Prospects for bounded rationality workshop at Carnegie Mellon University*. Pittsburgh, PA, USA.

Dutt, V., & Gonzalez, C. (2010). Physical Representation and Linear Thinking on Climate Change. In *Paper presented at the 2010 Society of Risk Analysis Annual Meeting*. Salt Lake City, Utah, USA.

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Gonzalez, C., & **Dutt, V.** (2010). Instance-based Learning Models of Training. In *Paper presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society*. San Francisco, CA, USA.

Proctor R.W., Yamaguchi, M., Gonzalez, C., & **Dutt, V.** (2010). Spatial Compatibility Effects in a Complex Task Environment. In *Paper presented at the 2010 American Psychological Association Convention*. San Diego, CA, USA.

Walter, W., **Dutt, V.**, Gluck, K., & Reitter, D. (2010). Results and Lessons Learned from the 2009 DSF Modeling Comparison Challenge. In *Symposium presented at the 2010 Behavioral Representation in Modeling Simulation conference*. Charleston, SC, USA.

Dutt, V., & Gonzalez, C. (2009). Human Control of Climate. In *Poster presented at the 2009 Summer Institute on Bounded Rationality*. Berlin, Germany.

Dutt, V., & Gonzalez, C. (2009). Climate Risk Communication: A Cure for People's Mental Models. In *Paper presented at the 2009 Society of Risk Analysis Annual Meeting*. Baltimore, MD.

Lebiere, C., Gonzalez, C., **Dutt, V.**, Warwick, W. (2009). Predicting cognitive performance in open-ended dynamic tasks a modeling comparison challenge. In *Symposium at 2009 9th International Conference on Cognitive Modeling*. Manchester: UK.

Gonzalez, C., **Dutt, V.**, Healy, A., Young, M. & Bourne, L. (2009). Comparison of instance and strategy models in ACT-R. In A. Howes, D. Peebles, R. Cooper (Eds.), *9th International Conference on Cognitive Modeling – ICCM2009*, Manchester, UK.

Dutt, V., Yamaguchi, M., Gonzalez, C., & Proctor, R. (2009). An Instance-Based Learning Model of Stimulus-Response Compatibility Effects in Mixed Location-Relevant and Location-Irrelevant Tasks. In *Poster presented at 2009 9th International Conference on Cognitive Modeling*. Manchester: UK.

Dutt, V., & Gonzalez, C. (2009). A Model of Human Perceptions of Climate Change. In *Paper presented at American Society for Engineering Education (ASEE) Spring 2009 Northeast Conference*. Bridgeport, CT.

Dutt, V., & Gonzalez, C. (2009). How do we perceive carbon-dioxide lifetimes? In *Paper presented at USSEE 2009 Conference*. Washington D.C., MD.

Dutt, V., & Gonzalez, C. (2009). Human "Mis"- perceptions of Climate Change. In *Paper presented at the HFES 53rd Annual Meeting*. San Antonio, TX.

Dutt, V., & Gonzalez, C. (2008). Human Perceptions of Climate Change. In *Paper presented at the 26th International Conference of the System Dynamics Society*. Athens, Greece.

Dutt, V., & Gonzalez, C. (2008). Human Perceptions of Climate Change. In *Paper presented at the 3rd Annual - Student Industrial Ecology Conference*, University of Pittsburgh – Benedum Hall, Kresge Auditorium Rm. 1175, Pittsburgh, PA.

Dutt, V., & Gonzalez, C. (2008). Human Perceptions of Climate Change. In *Paper presented at the 2008 American Psychological Association Convention's Symposium Decision Making in Dynamic and Complex Environments*. Boston, MA, USA.

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Dutt, V., & Gonzalez, C. (2008). Instance and strategy based models in ACT-R. In *Proceedings of 2008 Modeling, Simulation & Gaming (MS&G) Student Capstone Conference* (pp. 19). Suffolk, VA: ODU-VMASC.

Dutt, V., & Gonzalez, C. (2008). Instance and Strategy ACT-R models of choice in a dynamic control task: a model comparison story. *Proceedings of 2008 Fifteenth Annual Workshop and Summer School* (pp. 43). Pittsburgh, PA: ACT-R RESEARCH GROUP.

Dutt, V., & Gonzalez, C. (2008). Risk Perceptions of Climate Change. In *Paper presented at the 2008 Society of Risk Analysis Annual Meeting*. Boston, MA.

Young, M. D., Healy, A. F., Gonzalez, C., **Dutt, V.,** & Bourne, L. E., Jr. (2008). Effects of training with added relevant responses on RADAR detection. *The Experimental Psychology Society and the Psychonomic Society*, Chicago, IL.

Dutt, V., & Gonzalez, C. (2007). Slope of inflow impacts dynamic decision making. In *Paper presented at the 25th (2007) International Conference of the System Dynamics Society*. Boston, MA, USA.

Gonzalez, C., & **Dutt, V. (2007).** Learning to control a dynamic task: A system dynamics cognitive model of the slope effect. In *Paper presented at the 8th International Conference on Cognitive Modeling*, Ann Arbor, MI, 26th July 2007, 61-66.

Dutt, V., Schmerl, B., & Garlan, D. (Unpublished). Discovering Communication Protocols between Software Elements (runtime objects) in Software Architectures. Part of Independent Study taken when pursuing Master's in Software Engineering, Carnegie Mellon University, Pittsburgh, PA.

Dutt, V. & Kumar, S. (2006). Learning Transistor Characteristics using Neural Networks. *Published in ECCS 2006*. Patiala, India.

Dutt, V. & Thiagaraj, V. (2005). The Concept of Classification in Data Mining using Neural Networks. *Published in NCBC 2005*. Patiala, India.

EDITORSHIP

Knowledge Editor, English Financial Daily, *Financial Chronicle*: <http://www.mydigitalfc.com/>

AD-HOC REVIEWER OF JOURNALS

Global Environment Change, System Dynamics Review, Organizational Behavior and Human Decision Processes, Journal of Cognitive Engineering and Decision Making, Cognitive Systems Research, Environmental Science & Policy

AWARDS, HONORS AND INVITED TALKS

| HONORS | DATE |
|--|----------------|
| Paper accepted in the journal <i>Psychological Review</i> | 2011 |
| Marquis Who's Who of the World | 2006 – Present |
| 1000 Greatest Minds of 21 st Century | 2008 |
| Runner-up prize in the Market Entry Prediction Competition, http://sites.google.com/site/gpredcomp/8-competition-results-and-winners | 2011 |
| Tutorial presenter at BRIMS 2011 Conference, Sundance Resort, UT | 2011 |
| Panel discussion at BRIMS 2010 Conference, Charleston, SC | 2010 |

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| Talk on VB-ACT-R Tutorial, RMPA Conference, Denver, CO | 2010 |
| Talk in EESM Seminar Steinbrenner Institute, Carnegie Mellon | 2009 |
| Talk in Dynamic Decision Making Lab, Carnegie Mellon | 2007, 2009, 2010, 2011 |
| Talk in Carnegie Mellon's Graduate Student Appreciation Week 2011 | 2011 |
| Tutorial Presenter and Talk at HFES 2011 | 2011 |

ACTIVITIES AND AFFILIATIONS

Student active member of Institute of Electrical and Electronics Engineers (IEEE), Inc, USA (www.ieee.org)
Student active member of System Dynamics Society (SDS), USA (<http://www.systemdynamics.org>)
Member of Society of Risk Analysis (SRA), USA (<http://www.sra.org/>)
Member of Division 34 [Population and Environmental Psychology], American Psychological Association, USA (<http://www.apa.org/divisions/div34/>)
Member of Society of Judgment and Decision Making, USA (www.sjdm.org)
Knowledge Editor, Newspaper Financial Chronicle (<http://www.mydigitalfc.com/columnists/Varun-Dutt>)
Freelance Journalist, Financial Chronicle (<http://www.mydigitalfc.com/columnists/Varun-Dutt>)

MEDIA COVERAGE

Mention on this Wiki page: http://en.wikipedia.org/wiki/Financial_Chronicle#Management
At BRIMS 2010 Conference: <http://www.david-reitter.com/complimg/papers/warwick2010symposium.pdf>
A game's video on my environmental research:: <http://www.youtube.com/watch?v=4O6XLsPIPw8>
A research showcase on my research: <http://repository.cmu.edu/sds/79/>
A research showcase on my research: <http://repository.cmu.edu/sds/76/>
A mention of my article on FuelCellWorks page: <http://fuelcellworks.com/news/tag/environmental/>
...and many other articles on Google.com using the keywords, "varun dutt cmu"

REFERENCES

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|---|---|---|
| Dr. Cleotilde (Coty) Gonzalez Associate Research Professor Dept. Social & Decision Sciences Carnegie Mellon University 223C Porter Hall, Pittsburgh, PA 15213 Phone: +1-412-268-6242 Email: coty@cmu.edu | Dr. Lorrie F. Cranor Associate Professor Dept. of Engineering and Public Policy Carnegie Mellon University 2207 CIC Building, Pittsburgh, PA 15213 Phone: +1-412-268-7534 Email: lorrie@cs.cmu.edu | Dr. Mitchell J. Small Professor Dept. of Engineering and Public Policy Carnegie Mellon University 123D Porter Hall, 5000 Forbes Avenue Pittsburgh, PA 15213 Phone: +1-412-268-8782 Email: ms35@andrew.cmu.edu |
| Dr. Elke U. Weber Professor Graduate School of Business Columbia University 716 Uris Hall, 3022 Broadway New York, NY 10027 Phone: +1-212-854-4427 Email: euw2@columbia.edu | Dr. Rajesh Kumar Bhatia Professor Computer Science and Engineering Deenbandhu Chhotu Ram University of Science and Technology, 50th K.M. Stone, N.H. 1, Murthal, Pin-131039, India Phone: +91-9467948996 Email: rbhatiapatiala@gmail.com | Dr. Deepak Garg Professor Department of Computer Engineering Thapar University P.O. Box 32, Patiala, Pin-147004 Phone: +91-175-2393021 Email: dgarg@thapar.edu |