

April, 2018

## Subbarao Kambhampati

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### *Research Interests*

- **Human-Aware AI Systems:** Planning and Decision-making for human-in-the-loop AI systems. Human-robot teaming. Proactive decision support. Learnable planning models & Model-Lite Planning. Explicable behavior and Explanations. Human-factors evaluations.
- **Automated Planning (AI):** Plan Synthesis in metric, temporal, partially accessible and stochastic worlds. Heuristics for plan synthesis. Multi-objective optimization for planning. Reasoning with expressive actions. Scheduling. Speedup-learning to assist planners. Constraint Satisfaction and Operations Research Techniques. Applications of planning to automated manufacturing and space autonomy.
- **Social Media Analysis & Information Integration:** Analysis of human-behavior on social-media platforms. Adaptive techniques for query optimization and execution in information integration. Source discovery and source meta-data learning.

### *Education*

**Ph.D.** in Computer Science (1989) *University of Maryland, College Park, USA*

**M.S.** in Computer Science (1985) *University of Maryland, College Park, USA*

**B.TECH.** in Electrical Engineering and Electronics (1983) *Indian Institute of Technology, Madras, India*

### *Professional Experience (Academic)*

**8/00 - present: Professor**, Department of Computer Science and Engineering, Arizona State University, Tempe

**2/2006 -3/2006: Visiting Researcher**, Australian National University (Sabbatical Visit).

**2/98 -5/98: Visiting Professor**, Dept. of Computer Science and Automation, Indian Institute of Science, Bangalore, India. (Sabbatical Visit)

**11/97 -1/98: Visiting Professor**, Dept. of Computer Science, Indian Institute of Technology, Kharagpur, India. (Sabbatical Visit)

**8/96 -8/00: Associate Professor**, Department of Computer Science and Engineering, Arizona State University, Tempe

**8/91 - 8/96: Assistant Professor**, Department of Computer Science and Engineering, Arizona State University, Tempe

**10/89 - 8/91: Research Associate**, Center for Design Research and Department of Computer Science, Stanford University, Stanford

**6/84 - 8/89: Research Assistant**, Center for Automation Research, Department of Computer Science, University of Maryland, College Park

**6/88 - 8/88: Part-time Instructor**, University College, University of Maryland, College Park

**8/85 - 12/86: Part-time Teaching Assistant**, University College, University of Maryland, College Park

**1/84 - 6/84: Teaching Assistant**, Department of Computer Science, University of Maryland, College Park

**8/83 - 1/84: Research Assistant**, Department of Electrical and Computer Engineering, Carnegie-Mellon University, Pittsburgh

### ***Professional Experience (Industrial)***

**9/18 - present: Chief AI Officer, AI Foundation.**

**1/17 - present: Consultant, Johnson Controls.**

**1/18 - present: Consultant, DiDi Research.**

**1/14 - present: Consultant, Lockheed Martin.**

### ***Honors & Significant Service***

- President, Association for the Advancement of Artificial Intelligence (AAAI), 2016-18. (President-Elect during 2014-16).
- Fellow, Association for the Advancement of Artificial Intelligence (AAAI), 2004.
- Fellow, American Association for the Advancement of Science (AAAS), 2017.
- Distinguished Alumnus, Dept. of Computer Science, University of Maryland, College Park. 2018.
- Program Chair, Intl. Joint Conf on AI (IJCAI), 2016 (Trustee, IJCAI, 2013-18).
- Trustee, Partnership for Artificial Intelligence, 2017-.
- National Science Foundation Young Investigator (NYI) award, 1994-1999.
- Influential Paper Award (Honorable Mention), ICAPS 2010 (for a 2000 paper on viewing planning as Constraint Satisfaction with Minh B. Do).
- Selected by ASU CSE students as the Teacher of the Year. 2012.
- Selected by ASU students for 16th Annual ASU Last Lecture Series, 2011 (lectured on "You can't do that HAL! Collateral Lessons from a Computational Quest to Design HAL").
- College of Engineering Teaching Excellence Award, 2002.
- Best Poster Award, World Wide Web Conference, 2010 (for the SourceRank work with Raju Balakrishnan).
- Conference Committee Chair, AAAI 2012-2014.
- Program Co-Chair, National Conference on Artificial Intelligence, 2005.
- Program Co-Chair, Intl. Conference on Planning and Scheduling, 2013.
- IBM Faculty Award, 2004.

- Google Research Grant. 2016; 2013; 2010; 2008.
- National Science Foundation Research Initiation (RIA) award, 1992-1995.
- Track Co-Chair, AI and Web Track, AAAI 2010.
- Elected to AAAI Executive Council, 2009-2012.
- Distinguished Performance Award (Simple Preferences Track for Yochan-ps), International Planning Competition, 2006.
- Researcher of the year award. School of Computing and Informatics. Arizona State University. 2005.
- Invited Speaker, ACAI Summer School on Automated Planning, Freiburg, Germany. 2011.
- Invited Speaker, International Conference on Automated Planning and Scheduling, Trento, Italy. June 2003.
- Program Co-Chair, Intl. Conference on Planning and Scheduling (formerly known as AI Planning Systems Conference), 2000.
- Invited Speaker, Machine Learning summer school. (Canberra, Australia). February 2006.
- Invited Speaker, PLANET summer school on Planning. (Paphos, Cyprus). September 2000.
- Invited Speaker, National Conference on Artificial Intelligence, 1996 (Portland)
- Invited Speaker, 4th Intl. Conference on Knowledge-Based Computer Systems, Mumbai, India. December 2000.
- Nominated for “Outstanding Graduate Mentor Award”--an ASU program for recognizing Graduate Student Mentoring (2010).
- Arizona State University Nominee for NSF Presidential Faculty Fellowship, 1995.
- Nominated three times for ASU CEAS Teaching Excellence Award, 1995, 1998, (2002).
- Samuel N. Alexander A.C.M. Fellowship Grant, 1988 (Awarded by Washington D.C. Chapter of A.C.M. to a Computer Science doctoral student from A.C.M. Mid-Atlantic Region)
- Fellow, Systems Research Center, University of Maryland, 1987
- Institute Merit Certificate and Prize for securing First Rank in 2nd year of B.TECH., Indian Institute of Technology, Madras, India, 1980.
- State Special Merit Scholarship for Rank-holders, A.P., India, 1976-78, 1978-83
- Merit Scholarship, Indian Institute of Technology, Madras, India, 1978-83
- State Board of Education Merit Certificates for securing 11th Rank in state in class XII and 7th Rank in state in class X, A.P., India

### ***Significant Student Honors***

- IBM Ph.D. Fellowship for Sailik Sengupta. 2018-19.
- IBM Ph.D. Fellowship for Tathagata Chakraborty. 2017-18.
- School of Computing & Informatics Outstanding Masters Student Award to Sarath Sridharan. 2017.
- Students reached Microsoft Imagine Cup National Finals with an entry on human-robot teaming. 2017.

- Nominated for AAMAS 2016 Best Student Paper Award, 2016 (for work with Xin Tian, Hankz Hankui Zhuo)
- IBM Ph.D. Fellowship for Tathagata Chakraborty. 2016-17.
- People's Choice Award for the Best Demonstration, Intl. Conf. on Planning and Scheduling, 2014 (for Lydia Manikonda, Tathagata Chakrabarti and Kartik Talamadupula).
- School of Computing & Informatics Outstanding Masters Student Award to Manish Jha, 2012.
- Best Poster Award, World Wide Web Conference, 2010 (for the SourceRank work with Raju Balakrishnan).
- **Influential Paper Award (Honorable Mention)**, ICAPS 2010 (for a 2000 paper on viewing planning as Constraint Satisfaction with Minh B. Do).
- International Conference on Planning & Scheduling **Best Dissertation Award** for Daniel Bryce; 2009.
- International Conference on Planning & Scheduling **Best Dissertation Award honorable mention** for Menkes van den Briel; 2009.
- Computing Research Association Outstanding Undergraduate Student (honorable mention) to Kartik Talamadupula; 2008
- **Yahoo! Key Scientific Challenges Award to Raju Balakrishnan, 2009**
- International Planning Competition Distinguished Performance Award to J. Benton, 2006.
- School of Computing & Informatics Distinguished Senior Award to Kartik Talamadupula, 2008
- School of Computing & Informatics Outstanding Masters Student Award to Garrett Wolf, 2009.
- School of Computing & Informatics Outstanding Masters Student Award to Hemal Khatri, 2007.
- School of Computing & Informatics Outstanding Masters Student Award to Thomas Hernandez, 2005.
- School of Computing & Informatics Outstanding Ph.D. Student Award to Minh Binh Do, 2005.
- Shortlisted for the best paper award at ICAPS 2006 (Daniel Bryce)
- Shortlisted for the best student paper award at AAAI 2005 (William Cushing and Daniel Bryce)
- Two Science Foundation of Arizona Fellows (Tuan Nguyen, Kartik Talamadupula); two ARCS Foundation Fellows (Daniel Bryce, J. Benton); one Fulton Fellow (Will Cushing), one University Graduate Scholar (Will Cushing).

## ***Full Publication List***

Most of these papers available online at <http://rakaposhi.eas.asu.edu/papers.html>. According to Google Scholar (<http://scholar.google.com/citations?user=y13L07sAAAAJ>), these papers have received over 9002 citations to date, leading to an **h-index** of **50**, and **i-10 index** of **167**.

### ***Journal articles:***

- (1) Kartik Talamadupula, Gordon Briggs, Matthias Scheutz & Subbarao Kambhampati. Architectural Mechanisms for Handling Human Instructions for Open-World Mixed-Initiative Team Tasks and Goals **Advances in Cognitive Systems**. 2017.
- (2) Tuan Nguyen, Subbarao Kambhampati and Sarath Sreedharan. Robust planning with incomplete domain models. **Artificial Intelligence**. 2017.
- (3) Hankz Hankui Zhuo and Subbarao Kambhampati. Model-Lite Planning: Case-Based vs. Model-Based Approaches. **Artificial Intelligence** 2017.
- (4) Lydia Manikonda, Tathagata Chakraborty, Kartik Talamadupula & Subbarao Kambhampati. Herding the Crowd: Using Automated Planning for Better Crowdsourced Planning. *Human Computation Journal*. (To appear). 2017
- (5) Raju Balakrishnan and Subbarao Kambhampati Click Efficiency: A Unified Optimal Ranking for Online Ads and Documents. *Journal of Intelligent Information Systems*. 2015.
- (6) Rohit Raghunathan, Sushovan De, Subbarao Kambhampati. Bayes Networks for Supporting Query Processing Over Incomplete Autonomous Databases *Journal of Intelligent Information Systems*. 42(3): 595-618 (2014)
- (7) Raju Balakrishnan, Subbarao Kambhampati, and Manishkumar Jha. Assessing Relevance and Trust of the Deep Web Sources and Results Based on Inter-Source Agreement *ACM Transactions on Web*. Volume 7, Issue 2, May 2013.
- (8) Nan Li, William Cushing, Subbarao Kambhampati and Sungwook Yoon. Learning Probabilistic Hierarchical Task Networks to Capture User Planning Preferences. *ACM Transactions on Intelligent Systems and Technology*. ACM TIST 5(2): 29 (2014)
- (9) Tuan Nguyen, Minh Do, Alfonso Gerevini, Ivan Serina, Biplav Srivastava and Subbarao Kambhampati. Planning with partial preference models *Artificial Intelligence*. Vol 190. Pages 1-31. Oct 2012.
- (10) Ravi Gummadi, Anupam Khulbe, Aravind Kalavagattu, Sanil Salvi, Subbarao Kambhampati. SmartInt: Using Mined Attribute Dependencies to Integrate Fragmented Web Databases *Journal of Intelligent Information Systems*. 2011 (Accepted)
- (11) Xiaoqin Zhan, Sungwook Yoon, and Subbarao Kambhampati and several other authors. An Ensemble Architecture for Learning Complex Problem-Solving Techniques From Demonstration. **ACM Transactions on Intelligent Systems and Technology**. (Accepted). 2011.
- (12) Daniel Bryce, William Cushing and Subbarao Kambhampati. State Agnostic Planning Graphs: Deterministic, Non-Deterministic, and Probabilistic Planning. **Artificial Intelligence**. Volume 175, Issues 3-4, March 2011.

- (13) Kartik Talamadupula, J. Benton, Subbarao Kambhampati, Paul Schermerhorn, and Matthias Scheutz. Planning for Human-Robot Teaming in Open Worlds. **ACM Transactions on Intelligent Systems and Technology. (Special Issue on Applications of Automated Planning). Vol 1. No. 2. 2010.**
- (14) GarrettWolf, Aravind Kalavagattu, Hemal Khatri, Raju Balakrishnan, Bhaumik Chokshi, Jianchun Fan, Yi Chen and Subbarao Kambhampati. Query Processing Over Incomplete Autonomous Databases: Query Rewriting Using Learned Data Dependencies. **VLDB Journal.** 18(5): 1167-1190 (2009). (Special issue on uncertain and probabilistic databases.)
- (15) J. Benton, Minh Do and Subbarao Kambhampati. Anytime Heuristic Search for Partial Satisfaction Planning **Artificial Intelligence Journal.** 173(5-6): 562-592 (2009)
- (16) Menkes van den Briel, Thomas Vossen and Subbarao Kambhampati. Loosely coupled formulations for Automated Planning: An Integer Programming Perspective **Journal of Artificial Intelligence Research.** Volume 31, pages 217-257.
- (17) Daniel Bryce, Subbarao Kambhampati and David E. Smith. Sequential Monte Carlo in Reachability Heuristics for Probabilistic Planning **Artificial Intelligence Journal.** Vol. 172. 2008.
- (18) How to skin a planning graph for fun and profit: A Tutorial on Planning Graph Based Reachability Heuristics. Daniel Bryce and Subbarao Kambhampati. ASU CSE TR-06-007, April 2006. To appear in **AI Magazine** Spring 2007.
- (19) Daniel Bryce, Subbarao Kambhampati and David E. Smith. Planning Graph Heuristics for Belief Space Search **Journal of Artificial Intelligence Research.** Volume 26, pages 35-99. May 2006.
- (20) Menkes van den Briel and Subbarao Kambhmpati. Optiplan: A Planning System that Unifies Integerprogramming with Planning Graph. (Engineering Note) JAIR special track on IPC 2004. December 2005.
- (21) Zaiqing Nie, Subbarao Kambhampati and Ullas Nambiar. Effectively mining and using coverage and overlap statistics for data integration. **IEEE Transactions on Knowledge and Data Engineering.** 2005.
- (22) Terry Zimmerman and Subbarao Kambhampati. Using memory to transform search on the planning graph **Journal of Artificial Intelligence Research.** 2005.
- (23) Jianchun Fan and Subbarao Kambhampati. A Snapshot of Public Web Services To appear in SIGMOD Record, March 2005.
- (24) Thomas Hernandez and Subbarao Kambhampati. Integration of Bioinformatic Sources: Current Approaches and Systems. SIGMOD Record, Vol 33, No 3 September 2004.
- (25) S. Kambhampati, E. Lambrecht, U. Nambiar, Z. Nie and G. Senthil. Optimizing Recursive Information Gathering Plans in EMERAC. **Journal of Intelligent Information Systems.** Vol 22, No. 2. February 2004, pp. 119-153.
- (26) Minh B. Do and Subbarao Kambhampati. Sapa: A Multi-Objective Metric Temporal Planner. **Journal of AI Research,** Volume 20, pages 155-194. December 2003.
- (27) Sanchez, R. and Kambhampati, S. (2003) "AltAltp: Online Parallelization of Plans with Heuristic State Search." **Journal of AI Research,** Volume 19, pages 631-657.

- (28) Terry Zimmerman and Subbarao Kambhampati. Learning-assisted automated planning: Looking back, taking stock, going forward. **AI Magazine**. 24(2):73-96. Summer 2003
- (29) XuanLong Nguyen, Subbarao Kambhampati and Romeo Sanchez Nigenda. Planning Graph as the Basis for deriving Heuristics for Plan Synthesis by State Space and CSP Search. **Artificial Intelligence** 135(1-2): 73-123 (2002)
- (30) Minh B. Do and Subbarao Kambhampati. Planning as Constraint Satisfaction: Solving the planning graph by compiling it into CSP. **Artificial Intelligence** 132(2): 151-182 (2001)
- (31) Biplav Srivastava, Subbarao Kambhampati, Binh Minh Do. Planning the Project Management Way: Efficient Planning by Effective Integration of Causal and Resource Reasoning in RealPlan. **Artificial Intelligence** 132(2): 151-182 (2001)
- (32) S. Kambhampati. Planning Graph as a (Dynamic) CSP: Exploiting EBL, DDB and other CSP Search Strategies in Graphplan. **Journal of Artificial Intelligence**. JAIR 12: 1-34 (2000)
- (33) S. Kambhampati. On the relations between intelligent backtracking and explanation-based learning in planning and constraint satisfaction. **Artificial Intelligence**. Vol. 105, No. 1-2. October 1998.
- (34) B. Srivastava and S. Kambhampati. Synthesizing customized planners from specifications. **Journal of Artificial Intelligence Research**. Vol 8. pp 93-128. 1998. 1998.
- (35) S. Kambhampati. Refinement planning as a unifying framework for plan synthesis. **AI Magazine**. 18(2):67-97. Summer. 1997.
- (36) L. Ihrig and S. Kambhampati. Storing and Indexing Plan Derivations through Explanation-based Analysis of Retrieval Failures. **Journal of Artificial Intelligence**. Vol 7. pp 161-198. 1997.
- (37) S. Kambhampati, S. Katukam and Y. Qu. "Failure driven Dynamic Search Control for Partial Order Planners: An Explanation-based approach", **Artificial Intelligence**. 88(1-2):253-315. 1997.
- (38) S. Kambhampati and D.S. Nau, "On the nature and role of modal truth criteria in planning", **Artificial Intelligence**. 82(1-2):129-156. 1996.
- (39) S. Kambhampati, C. Knoblock and Q. Yang. Planning as Refinement Search: A Unified framework for evaluating design tradeoffs in partial order planning. **Artificial Intelligence**. Special issue on Planning and Scheduling. Vol. 76. No. 1-2, September 1995. pp. 167-238.
- (40) S. Kambhampati. Comparative analysis of Partial Order and HTN Planning. **SIGART Bulletin** Special section on Evaluation of Plans, Planners and Planning Agents. Vol. 6, No. 1, January, 1995. pp. 16-25.
- (41) S. Kambhampati, "Multi-Contributor Causal Structures for Planning: A Formalization and Evaluation," **Artificial Intelligence** Vol. 69, No. 1-2, pp. 235-278. 1994.
- (42) S. Kambhampati and S. Kedar, "A Unified Framework for Explanation-Based Generalization of Partially Ordered and Partially Instantiated Plans," ASU CSE-TR-92-008, **Artificial Intelligence**, Vol 67, No. 2, June 1994. pp. 29-70.
- (43) S. Kambhampati, "Exploiting Causal Structure to Control Retrieval and Refitting during Plan Reuse," **Computational Intelligence**, Vol. 10, No. 2, May 1994, pp 212-244.

- (44) S. Kambhampati, M.R. Cutkosky, J.M. Tenenbaum and S.H. Lee, "Integrating General Purpose Planners and Specialized Reasoners: Case Study of a Hybrid Planning Architecture," **IEEE Transactions on Systems, Man and Cybernetics (special issue on Planning, Scheduling and Control),** Vol 23, No. 6, November 1993. pp 1503-1517.
- (45) S. Kambhampati and J.A. Hendler, "A Validation Structure Based Theory of Plan Modification and Reuse," **Artificial Intelligence**, 55 (2-3), pp. 193-258, June 1992.
- (46) S. Kambhampati and L.S. Davis, "Multiresolution Path Planning for Mobile Robots," **IEEE Journal of Robotics and Automation RA-2(3)**, September 1986, pp. 135-145.

***Commentaries, Reviews and Reports:***

- (47) Subbarao Kambhampati, Craig A. Knoblock: Guest Editors' Introduction: Information Integration on the Web. *IEEE Intelligent Systems* 18(5): 14-15 (2003)
- (48) A. Naryek and S. Kambhampati. Research Issues at the Intersection of Planning and Constraint Programming. *Constraints Journal*. Special Issue on Planning. Vol 8. No. 4. pp. 335-338. October 2003.
- (49) S. Kambhampati and C. Knoblock. Information Integration on the Web: A view from AI and Databases (Report on IIWeb-03). *SIGMOD Record*. December 2003.
- (50) B.Srivastava, X. Long, M. Do, U. Nambiar, X. Nie, R. Nigenda, T. Zimmerman and S. Kambhampati. AltAlt: Combining Graphplan and Heuristic State Search B. Srivastava, X. Long, Minh B. Do, U. Nambiar, X. Nie, R. Nigenda, T. Zimmerman and S. Kambhampati *AI Magazine*, 2001.
- (51) S. Kambhampati. "Theoretical Contributions of Artificial Intelligence." Side bar. *IEEE Computer Magazine*. 50th anniversary issue. Fall 1996.
- (52) S. Kambhampati. "Refinement planning: Status and Prospectus" *In Proc. National Conference on AI*, 1996. (Invited)
- (53) S. Kambhampati. "AI Planning: A prospectus on theory and applications" Position Statement. **ACM Computing Surveys**, Symposium on Artificial Intelligence, September 1995.
- (54) G. Olsen, M.R. Cutkosky and S. Kambhampati, "Real Physics for Real Engineers: A Response to "Prolegomena to Any Future Qualitative Physics,"" **Computational Intelligence**, Vol. 8, No. 2, pp. 286-288. September, 1992.
- (55) S. Kambhampati, "Report on the AAAI 1992 Spring Symposium on Computational Considerations in Supporting Incremental Modification and Reuse," **AI Magazine**, Vol. 13, No. 3, pp. 24-25.
- (56) A. Lansky, M. Drummond, S. Kambhampati, E. Pednault and Q. Yang. "Report on the AAAI 1993 Spring Symposium on Foundations of Automatic Planning, the classical approach and beyond," **AI Magazine**, Vol 14, No. 3. pp. 34-35.

***Book Publishing (Edited Proceedings, Book chapters):***

- (57) Subbarao Kambhampati (ed). *Proceedings of the 25th International Joint Conference on Artificial Intelligence*, 2016. (IJCAI 2016)
- (58) Daniel Borrajo, Subbarao Kambhampati, Angelo Oddi, Simone Fratini (Eds.): *Proceedings of the Twenty-Third International Conference on Automated Planning and*



Scheduling, ICAPS 2013, Rome, Italy, June 10-14, 2013. AAAI 2013, ISBN 978-1-57735-609-7

- (59) Subbarao Kambhampati and Sungwook Yoon. Explanation-Based Learning for Planning. Encyclopedia of Machine Learning. Springer-Verlag, New York, NY (Claude Sammut, ed.)
- (60) M. Veloso and S. Kambhampati (eds). Proceedings of National Conference on Artificial Intelligence, 2005. (AAAI 2005).
- (61) S. Kambhampati and C. Knoblock. (eds). Proceedings of IJCAI 2003 Workshop on Intelligent Information Integration. 2003.
- (62) S. Kambhampati, C. Knoblock and S. Chien. (eds) Proceedings of AIPS 2002 (International Conference on AI Planning Systems). 2000.
- (63) T. Dean and S. Kambhampati, "Planning and Scheduling," in "*The CRC Handbook of Computer Science and Engineering*," CRC Press. 1997.
- (64) S. Kambhampati, "Supporting Flexible Reuse of Plans, in "*Machine Learning Methods for Planning*," chapter 12, Editor: S. Minton, Morgan Kaufmann, Palo Alto, 1992 (ISBN 1-55860-248-8). pp. 397-434.
- (65) S. Kambhampati (ed), Working Notes of AAAI 1992 Spring Symposium on "Computational Considerations in Supporting Incremental Modification and Reuse," March 25-27, 1992, Stanford University.

***Formally Refereed Conference Publications:***

***Conferences with very rigorous review criteria***

**Note: In Computer Science, unlike many other fields, conference papers are rigorously reviewed, with top conferences having low acceptance rates; publications in these conferences are considered archival and comparable to journal papers.**

- (66) Lydia Manikonda & Subbarao Kambhampati Tweeting AI: Perceptions of Lay vs. Expert Twitterati. ICWSM 2018.
- (67) Sarath Sreedharan, Tathagata Chakraborti & Subbarao Kambhampati. Handling Model Uncertainty and Multiplicity in Explanations via Model Reconciliation ICAPS 2018.
- (68) Tathagata Chakraborti\*, Sarath Sreedharan\* & Subbarao Kambhampati. Balancing Explicability and Explanations: Emergent Behaviors in Human-Aware Planning AAMAS 2018 (Extended Abstract).
- (69) Yantian Zha, Yikang Li, Sriram Gopalakrishnan, Baoxin Li, & Subbarao Kambhampati Recognizing Plans by Learning Embeddings from Observed Action Distributions AAMAS 2018 (Extended Abstract).
- (70) Lydia Manikonda, Aditya Deotale, Subbarao Kambhampati. What's up with Privacy?: User Preferences and Privacy Concerns in Intelligent Personal Assistants AAAI/ACM Conference on Artificial Intelligence, Ethics and Society (AIES) 2018 (To appear)
- (71) Tathagata Chakraborti\*, Sarath Sreedharan\*, Yu Zhang and Subbarao Kambhampati. Plan Explanations as Model Reconciliation: Moving Beyond Explanation as Soliloquy IJCAI, 2017.
- (72) Yu Zhang, Sarath Sreedharan, Anagha Kulkarni, Tathagata Chakraborti, Hankz Hankui Zhuo, Subbarao Kambhampati. Plan Explicability and Predictability for Robot Task Planning. ICRA 2017.
- (73) Sailik Sengupta, Satya Gautam Vadlamudi, Subbarao Kambhampati, Adam Doupe, Marthony Taguinod, Ziming Zhao and Gail-Joon Ahn A Game Theoretic Approach in Strategy Generation for Moving Target Defense in Web Applications AAMAS 2017.
- (74) Tathagata Chakraborti, Kartik Talamadupula, Kshitij P. Fadnis, Murray Campbell, Subbarao Kambhampati UbuntuWorld 1.0 LTS - A Platform for Automated Problem Solving & Troubleshooting in the Ubuntu OS AAAI/IAAI, 2017
- (75) Xin Tian, Hankz Hankui Zhuo and Subbarao Kambhampati. Discovering Underlying Plans Based on Distributed Representations of Actions. AAMAS 2016 (**Nominated for AAMAS 2016 Best Student Paper Award**)
- (76) Tweeting the Mind and Instagramming the Heart: Exploring Differentiated Content Sharing on Social Media. Lydia Manikonda, Vamsi Meduri & Subbarao Kambhampati ICWSM 2016.
- (77) Tathagata Chakraborti, Sarath Sreedharan, Sailik Sengupta, T. K. Satish Kumar, and Subbarao Kambhampati. Compliant Conditions for Polynomial Time Approximation of Operator Counts Symposium on Combinatorial Search (SOCS), 2016.
- (78) Yu Zhang, Sarath Sreedharan & Subbarao Kambhampati A Formal Analysis of Required Cooperation in Multi-agent Planning ICAPS 2016.
- (79) Tathagata Chakraborti, Yu Zhang, Subbarao Kambhampati. Planning with Resource Conflicts in Human-Robot Cohabitation AAMAS 2016.

- (80) Satya Gautam Vadlamudi, Sailik Sengupta, Subbarao Kambhampati, Marthony Taguinod, Ziming Zhao, Adam Doupi, Gail-Joon Ahn Moving Target Defense For Web Applications Using Bayesian Stackelberg Games AAMAS 2016
- (81) Satya Gautam Vadlamudi & Subbarao Kambhampati A Combinatorial Search Perspective on Diverse Solution Generation AAAI 2016
- (82) Tathagata Chakraborti, Gordon Briggs, Kartik Talamadupula, Yu Zhang, Matthias Scheutz, David Smith and Subbarao Kambhampati Planning for Serendipity. IROS 2015
- (83) Yu (Tony) Zhang, Vignesh Narayanan, Tathagata Chakraborty & Subbarao Kambhampati. A Human Factors Analysis of Proactive Assistance in Human-robot Teaming. IROS 2015.
- (84) Manikandan Vijayakumar, Tejas Mallapura Umamaheshwar, Kartik Talamadupula and Subbarao Kambhampati TweetSense: Context Recovery for Orphan Tweets by Exploiting Social Signals in Twitter WebScience 2015.
- (85) Acquiring Planning Knowledge via Crowdsourcing Jie Gao, Hankz Hankui Zhuo, Subbarao Kambhampati and Lei Li. HCOMP 2015
- (86) Vignesh Narayanan, Yu Zhang, Nathaniel Mendoza and Subbarao Kambhampati. Automated Planning for Peer-to-peer Teaming and its Evaluation in Remote Human-Robot Interaction 10th ACM/IEEE Intl. Conf on Human Robot Interaction (HRI), 2015.
- (87) Yilin Wang, Yuheng Hu, Subbarao Kambhampati and Baoxin Li Inferring Sentiment from Web Images with Joint Inference on Visual and Social Cues: A Regulated Matrix Factorization Approach ICWSM 2015
- (88) Yu Zhang, Sarath Sreedharan and Subbarao Kambhampati. Capability Models and their application in Multi-agent planning. AAMAS 2015
- (89) Sushovan De, Yuheng Hu, Yi Chen, and Subbarao Kambhampati. BayesWipe: A Multimodal System for Data Cleaning and Consistent Query Answering on Structured Data IEEE BigData 2014.
- (90) Tuan A. Nguyen, Subbarao Kambhampati: A Heuristic Approach to Planning with Incomplete STRIPS Action Models. ICAPS 2014
- (91) Kartik Talamadupula, Gordon Briggs, Tathagata Chakraborti, Matthias Scheutz, Subbarao Kambhampati: Coordination in human-robot teams using mental modeling and plan recognition. IROS 2014: 2957-2962
- (92) Yu Zhang, Lynne E. Parker, Subbarao Kambhampati: Coalition coordination for tightly coupled multirobot tasks with sensor constraints. ICRA 2014: 1090-1097.
- (93) Yuheng Hu, Lydia Manikonda, Subbarao Kambhampati: What We Instagram: A First Analysis of Instagram Photo Content and User Types. ICWSM 2014
- (94) Lydia Manikonda, Tathagata Chakraborti, Sushovan De, Kartik Talamadupula, Subbarao Kambhampati: AI-MIX: Using Automated Planning to Steer Human Workers Towards Better Crowdsourced Plans. IAAI/AAAI 2014: 3004-3009
- (95) Tuan Nguyen, Subbarao Kambhampati & Minh B. Do. Synthesizing Robust Plans Under Incomplete Domain Models. NIPS 2013.
- (96) Kartik Talamadupula, Gordon Briggs, Matthias Scheutz & Subbarao Kambhampati. Architectural Mechanisms for Handling Human Instructions in Open-World Mixed-

Initiative Team Tasks Advances in Cognitive Systems, ACS, 2013.

- (97) Srijith Ravikumar, Kartik Talamadupula, Raju Balakrishnan, Subbarao Kambhampati: RARProp: ranking tweets by exploiting the tweet/user/web ecosystem and inter-tweet agreement. CIKM 2013: 2345-2350
- (98) Hankz Hankui Zhuo, Tuan Nguyen and Subbarao Kambhampati. Refining Incomplete Domain Models through Plan Traces. IJCAI 2013.
- (99) Yuheng Hu, Fei Wang & Subbarao Kambhampati. Listening to the Crowd: Automated Analysis of Live Events via Aggregated Twitter Sentiment. IJCAI 2013.
- (100) Yuheng Hu, Kartik Talamadupula and Subbarao Kambhampati. Dude, srsly?: The Surprisingly Formal Nature of Twitter ICWSM, 2013.
- (101) Hankz Hankui Zhuo, Subbarao Kambhampati. Action Model Acquisition from Noisy Plan Traces. IJCAI 2013.
- (102) Hankz Hankui Zhuo, Subbarao Kambhampati, Tuan Nguyen. Model-Lite Case-Based Planning AAAI 2013.
- (103) Hankz Hankui Zhuo, Qiang Yang & Subbarao Kambhampati. Action-Model Based Multi-agent Plan Recognition NIPS 2012.
- (104) Yuheng Hu, Ajita John, Fei Wang & Subbarao Kambhampati. ET-LDA: Joint Topic Modeling for Aligning Events and their Twitter Feedback AAAI 2012.
- (105) Rehj Cantrell, Kartik Talamadupula, Paul Schermerhorn, J. Benton, Subbarao Kambhampati & Matthias Scheutz. Tell me when and why to do it!: Run-time planner model updates via natural language instruction ACM/IEEE Intl. Conf. on Human Robot Interaction. 2012.
- (106) Manish Kumar Jha, Raju Balakrishnan and Subbarao Kambhampati. Agreement Based Source Selection for the Multi-Domain Deep Web Integration. COMAD 2011.
- (107) Raju Balakrishnan, Subbarao Kambhampati SourceRank: Relevance and Trust Assessment for Deep Web Sources Based on Inter-Source Agreement. Proceedings of WWW 2011, Hyderabad.
- (108) Ravi Gummadi, Anupam Khulbe, Aravind Kalavagattu, Sanil Salvi, Subbarao Kambhampati. SmartInt: Using Mined Attribute Dependencies to Integrate Fragmented Web Databases Proceedings of WWW 2011, Hyderabad. (Poster from regular track; 16% acceptance rate)
- (109) Raju Balakrishnan, Subbarao Kambhampati Factal: Integrating Deep Web Based on Trust and Relevance. Proceedings of WWW 2011, Hyderabad. (Demo paper).
- (110) Kartik Talamadupula, J. Benton, Paul Schermerhorn, Matthias Scheutz and Subbarao Kambhampati. Integrating a closed-world planner with an open-world robot: A case study. AAAI 2010
- (111) William Cushing, J. Benton, Subbarao Kambhampati. Cost-based search considered harmful. Symposium on Combinatorial Search (SOCS) 2010.
- (112) J.Benton, Robert Mattmueller, Patrick Eyerich, S. Kambhampati G-Value Plateaus: A Challenge for Planning. ICAPS 2010. (Challenge Paper).
- (113) Raju Balakrishnan and Subbarao Kambhampati. SourceRank: Relevance and Trust Assessment for deep web sources based on inter-source agreement. WWW 2010. (**Recipient of the "Best Poster" award at WWW-2010.**)

- (114) Ravi Gummadi, Anupam Khulbe, Aravind Kalavagattu, Sanil Salvi, and Subbarao Kambhampati. SMARTINT: A System for Answering Queries over Web Databases Using Attribute Dependencies. ICDE 2010 (Demo).
- (115) Nan Li, Will Cushing, Subbarao Kambhampati & Sungwook Yoon. Learning user plan preferences obfuscated by feasibility constraints. ICAPS 2009.
- (116) Paul Schermerhorn\*, J. Benton, Matthias Scheutz, Kartik Talamadupula, Subbarao Kambhampati. Finding and Exploiting Goal Opportunities in Real-time during Plan Execution. IROS 2009.
- (117) Nan Li, Subbarao Kambhampati & Sungwook Yoon. Learning Probabilistic Hierarchical Task Networks to Capture User Preferences. IJCAI 2009.
- (118) Tuan Nguyen, Minh Do, Biplav Srivastava and Subbarao Kambhampati. Planning with Partial Preference Models. IJCAI 2009.
- (119) Sungwook Yoon and Subbarao Kambhampati (along with many other authors). An Ensemble Learning and Problem Solving Architecture for Airspace management Proc. IAAI 2009.
- (120) Sungwook Yoon, Alan Fern, Robert Givan and Subbarao Kambhampati. Probabilistic Planning via Determinization in Hindsight. AAAI 2008. (Presented orally as well as as a poster. Acceptance Ratio: 5%)
- (121) Sungwook Yoon, J. Benton and S. Kambhampati. An online learning method for improving over-subscription planning. ICAPS 2008 (Acceptance ratio: 30%)
- (122) Garrett Wolf, Hemal Khatri, Bhaumik Chokshi, Jianchun Fan, Yi Chen & Subbarao Kambhampati. Query processing over Incomplete Autonomous Databases. VLDB 2007. (Acceptance ratio: 16%)
- (123) Raju Balakrishnan and Subbarao Kambhampati. Optimal Ad Ranking for Profit Maximization. WebDB 2008.
- (124) Subbarao Kambhampati. Model-lite Planning for the Web Age Masses: The Challenges of Planning with Incomplete and Evolving Domain Theories AAAI 2007.
- (125) Menkes van den Briel, J. Benton, Subbarao Kambhampati and Thomas Vossen. An LP-Based Heuristic for Optimal Planning. Constraint Programming Conference (CP-2007).
- (126) William Cushing, Daniel Weld, Subbarao Kambhampati, Mausam & Kartik Talamadupula. Evaluating Temporal Planning Domains. ICAPS 2007.
- (127) J. Benton, Menkes van den Briel & Subbarao Kambhampati. A Hybrid Linear Programming and Relaxed Plan Heuristic for Partial Satisfaction Planning Problems. ICAPS 2007.
- (128) William Cushing, Subbarao Kambhampati, Mausam, Daniel Weld. IJCAI 2007 When is Temporal Planning Really Temporal? (oral presentation, Acceptance rate < 15%)
- (129) Planning with Goal Utility Dependencies Minh Do, J. Benton, Subbarao Kambhampati, Menkes van den Briel. IJCAI 2007. (oral presentation, Acceptance rate < 15%)
- (130) Domain Independent Approaches for Finding Diverse Plans Biplav Srivastava, Subbarao Kambhampati, Tuan Nguyen, Minh Do, Alfonso Gerevini, Ivan Serina. IJCAI 2007. (oral presentation, Acceptance rate < 15%)

- (131) QUIC: Handling Query Imprecision & Data Incompleteness in Autonomous Databases. Subbarao Kambhampati, Garrett Wolf, Yi Chen, Hemal Khatri, Bhaumik Chokshi, Jianchun Fan, Ullas Nambiar. CIDR 2007.
- (132) Sequential Monte Carlo in Probabilistic Planning Reachability Heuristics Daniel Bryce, Subbarao Kambhampati, and David E. Smith, ICAPS, 2006.
- (133) Supporting Queries with Imprecise Constraints Ullas Nambiar and Subbarao Kambhampati. AAAI 2006 NECTAR program.
- (134) Answering Imprecise Queries over Autonomous Web Databases Ullas Nambiar and Subbarao Kambhampati. To appear in Proc. ICDE 2006.
- (135) Oversubscription planning with metric goals. J. Benton, Minh B. Do and S. Kambhampati. IJCAI 2005.
- (136) Cost Sensitive Reachability Heuristics for Handling State Uncertainty Daniel Bryce and Subbarao Kambhampati. Proc. UAI 2005.
- (137) Romeo Sanchez and Subbarao Kambhampati. Planning Graph Heuristics for Selecting Objectives in Over-subscription Planning Problems. ICAPS 2005.
- (138) Menkes van den Briel, Thomas Vossen and Subbarao Kambhampati. Reviving Integer Programming Approaches for AI Planning: A Branch-and-Cut Framework ICAPS 2005.
- (139) Effective approaches for Partial Satisfaction (over-subscription) Planning. Menkes van den Briel, Romeo Sanchez Nigenda, Minh B. Do and Subbarao Kambhampati. AAAI 2004 (Acceptance Ratio: 25%).
- (140) Mining Approximate Functional Dependencies and Concept Similarities to Answer Imprecise Queries Ullas Nambiar and Subbarao Kambhampati. WebDB 2004. (Acceptance Ratio: 20%)
- (141) A frequency-based approach for mining coverage statistics in Data Integration. Zaiqing Nie and Subbarao Kambhampati. International Conference on Data Engineering (ICDE). 2004 (To appear). (Acceptance ratio: 14%)
- (142) Daniel Bryce, Subbarao Kambhampati. Heuristic Guidance Measures for Conformant Planning. Proc. ICAPS. 2004. (Acceptance ratio: 30%).
- (143) Bibfinder/Statminer: Effectively mining and using Coverage and Overlap Statistics in Data Integration Zaiqing Nie, Subbarao Kambhampati and Thomas Hernandez. Proc. Very Large Databases (VLDB) 2003. (Demonstration Paper) (Acceptance ratio: 25%)
- (144) Minh B. Do and Subbarao Kambhampati. Improving the Temporal Flexibility of Position Constrained Metric Temporal Plans. In Proc. ICAPS. (Acceptance ratio: 30%). 2003.
- (145) Minh B. Do and Subbarao Kambhampati. Planning Graph-based heuristics for Cost-sensitive Temporal Planning AIPS 2002. (Acceptance ratio: 30%).
- (146) Z.Nie, U. Nambiar, S. Lakshmi and S. Kambhampati. Mining Coverage Statistics for Webservice Selection in a Mediator Proc. CIKM 2002.
- (147) Zaiqing Nie and Subbarao Kambhampati Joint Optimization of Cost and Coverage of Information Gathering Plans. In Proc. of ACM CIKM 2001. CIKM 2001: 223-230 (Acceptance ratio: 25%).

- (148) Minh B. Do and Subbarao Kambhampati. Sapa: A domain-independent heuristic metric temporal planner. In Proc. ECP 2001. Toledo, Spain. (Acceptance ratio: 30%).
- (149) XuanLong Nguyen, Subbarao Kambhampati. Reviving Partial Order Planning In Proc. IJCAI-2001. IJCAI 2001: 459-466. (Acceptance ratio: 24.7%).
- (150) Extracting effective and admissible heuristics from the planning graph. X. Nguyen and S. Kambhampati. AAAI/IAAI 2000: 798-805. (Acceptance ratio: 30%).
- (151) M. Do and S. Kambhampati. Solving Planning Graph by Compiling it into a CSP. Proc. 5th AIPS. AIPS 2000: 82-91. (Acceptance ratio: 30%) **(10 Year Influential Paper Award, Runner-up; 2010)**.
- (152) S. Kambhampati and R. Nigenda. Distance-based goal ordering heuristics for Graphplan. Proc. 5th AIPS 2000. AIPS 2000: 315-322. (Poster. Acceptance ratio: 40%)
- (153) M. Do, B. Srivastava and S. Kambhampati. Investigating the effect of Relevance and Reachability Constraints on SAT encodings of Planning. Proc. 5th AIPS 2000. AIPS 2000: 308-314. (Poster. Acceptance ratio: 40%)
- (154) S. Kambhampati. Improving Graphplan's search with EBL and DDB Techniques. Proc. Intl. Joint Conf. on Artificial Intelligence (IJCAI-99). Stockholm. 1999. IJCAI 1999: 982-987. (Acceptance ratio: 26%).
- (155) E. Lambrecht, S. Kambhampati and S. Gnanaprakasam. Optimizing recursive information gathering plans. Proc. Intl. Joint Conf on Artificial Intelligence. (IJCAI-99). Stockholm. 1999. IJCAI 1999: 1204-1211. (Acceptance ratio: 26%).
- (156) T. Zimmerman and S. Kambhampati. Exploiting symmetry in the planning graph via explanation-guided search. Proc. National Conference on AI (AAAI-99). 1999. AAAI/IAAI 1999: 605-611. (Acceptance ratio: 25%).
- (157) A. Mali and S. Kambhampati. On the utility of Plan-space (causal) encodings. In Proc. National Conference on AI (AAAI-99). 1999. AAAI/IAAI 1999: 557-563. (Acceptance ratio: 25%).
- (158) S. Kambhampati, A. Mali and B. Srivastava. Hybrid planning for partially hierarchical domains. Proc. National Conf. on AI (AAAI-98), 1998. (Acceptance ratio: 28%)
- (159) A. Mali and S. Kambhampati. HTN planning as propositional satisfiability. Proc. 4th AI Planning Systems Conference. 1998 AIPS 1998: 190-198. (Acceptance ratio: 30%)
- (160) B. Srivastava, A. Mali and S. Kambhampati. A structured approach for synthesizing planners from specifications. Proc. 12th IEEE Intl. conf. on Automated Software Engineering Conference, Lake Tahoe. 1997. pp. 18-26. (Acceptance ratio: 30%)
- (161) S. Kambhampati, E. Parker and E. Lambrecht. Understanding and Extending Graphplan. 4th European Conference on Planning. September, 1997. (Acceptance ratio: 30%). pp. 262-274. (Also appears as a poster at IJCAI-97)
- (162) S. Kambhampati. Challenges in bridging plan synthesis paradigms. Intl. Joint Conf. on Artificial Intelligence. IJCAI-97. 1997. pp. 44-49. (Acceptance ratio: 25%)
- (163) S. Kambhampati and X. Yang. "On the role of Disjunctive representations and Constraint Propagation in Refinement Planning" *Proc. of Knowledge Representation and Reasoning*, 1996. KR 1996: 135-146. (Acceptance ratio: 31%)
- (164) S. Kambhampati, Formalizing Dependency Directed Backtracking and Explanation-based Learning in Refinement Search. *Proc. National Conference on Artificial*

*Intelligence (AAAI-96)*, 1996. (Acceptance ratio: 30%)

- (165) L. Ihrig and S. Kambhampati. "Design and Implementation of a Replay Framework based on a Partial order Planner." *Proc. National Conference on Artificial Intelligence (AAAI-96)*, 1996. (Acceptance ratio: 30%)
- (166) S. Kambhampati, L. Ihrig and B. Srivastava. "A Candidate Set based analysis of sub-goal interactions in conjunctive goal planning." In *Proceedings of 3rd Intl. Conf. on AI Planning Systems*, May 1996. (Acceptance ratio: 30%)
- (167) S. Kambhampati and B. Srivastava. "Universal Classical Planner: An Algorithm for Unifying State-space and Plan-space Planning," *Current trends in AI Planning*, IOS Press, 1995. (based on a paper presented at 3rd European Workshop on Planning, Setemeber 1995. Acceptance Ratio: 39%).
- (168) L. Ihrig and S. Kambhampati. "Integrating Replay with EBL to improve planning performance." *Current trends in AI Planning*, IOS Press, 1995. (based on a paper presented at Proc. 3rd European Workshop on Planning, Setemeber 1995; Acceptance Ratio: 39%).
- (169) Y. Qu and S. Kambhampati. "Learning control rules for expressive plan-space planners: Factors influencing the performance." *Current trends in AI Planning*, IOS Press, 1995. (based on a paper presented at Proc. 3rd European Workshop on Planning, Setemeber 1995; Acceptance Ratio: 39%).
- (170) S. Kambhampati. "Admissible pruning strategies based on plan-minimality for plan-space planning" *Proc. 14th Intl. Joint Confernce on Artificial Intelligence. August 1995. (Acceptance ratio: 23%)*
- (171) S. Kambhampati. "Refinement Search as a unifying framework for analyzing planning algorithms," *Proc. 4th Intl. Conf. on Principles of Knowledge Representation and Reasoning*, May 1994 (Acceptance ratio: 20%)
- (172) S. Kambhampati. "Design Tradeoffs in partial order (plan-space) planning," *Proc. 2nd Intl. Conf. on AI Planning Systems*, June 1994. (Acceptance ratio: 30%)
- (173) S. Kambhampati and D.S. Nau. "On the nature of modal truth criteria in planning," *Proc. 12th Natl. Conf. on Artificial Intelligence (AAAI-94)*, August 1994. (Acceptance ratio: 27%)
- (174) L. Ihrig and S. Kambhampati. "Derivation Replay for Partial-order Planning," *Proc. 12th Natl. Conf. on Artificial Intelligence (AAAI-94)*, August 1994. (Acceptance ratio: 27%)
- (175) S. Katukam and S. Kambhampati. "Learning Explanation-based Search control rules for partial-order planning," *Proc. 12th Natl. Conf. on Artificial Intelligence (AAAI-94)*, August 1994. (Acceptance ratio: 27%).
- (176) S. Kambhampati. "On the Utility of Systematicity: Understanding Tradeoffs between redundancy and commitment in partial-ordering planning," *Proceedings of the 13th Intl. Joint Conf. on Artificial Intelligence*, Chamberry, France. (Acceptance ratio: 25%)
- (177) S. Kambhampati and J. Chen. "Relative utility of EBG-based plan reuse in partial ordering vs. total ordering planning frameworks," *Proceedings of 11th National Conference on Artificial Intelligence*, Washington D.C. (Acceptance ratio: 24%)
- (178) S. Kambhampati, "Characterizing Multi-Contributor Causal Structures for Planning," *Proceedings of the 1st Intl. Conf. on AI Planning Systems (AIPS-92)*, College Park,



MD, June 1992, pp. 116-125. (Acceptance ratio: 27%)

- (179) S. Kambhampati, M.R. Cutkosky, J.M. Tenenbaum and S.H. Lee, "Combining Specialized Reasoners and General Purpose Planners: A Case Study," *Proceedings of the 9th National Conference on Artificial Intelligence (AAAI-91)*, Anaheim, CA, July 1991. (Acceptance ratio: 23%)
- (180) S. Kambhampati and S.T. Kedar, "Explanation Based Generalization of Partially Ordered Plans" *Proceedings of the 9th National Conference on Artificial Intelligence (AAAI-91)*, Anaheim, CA, July 1991. (Acceptance ratio: 23%)
- (181) S. Kambhampati, "A Theory of Plan Modification," *Proceedings of the 8th National Conference on Artificial Intelligence (AAAI-90)*, Boston, MA, August 1990, pp. 176-182. (Acceptance ratio: 17%)
- (182) S. Kambhampati, "Mapping and Retrieval during Plan Reuse: A Validation Structure Based Approach," *Proceedings of the 8th National Conference on Artificial Intelligence (AAAI-90)*, Boston, MA, August 1990, pp. 170-175. (Acceptance ratio: 17%)
- (183) S. Kambhampati and J.A. Hendler, "Control of Refitting during Plan Reuse," *Proceedings of the 11th International Joint Conference on Artificial Intelligence (IJCAI-89)*, Detroit, MI, August 1989, pp. 943-948. (Acceptance ratio: 20%)
- (184) S. Kambhampati and J.A. Hendler, "Flexible Reuse of Plans via Annotation and Verification," *Proceedings of the 5th IEEE Conf. on Applications of Artificial Intelligence (CAIA-89)*, Miami, FL, March 1989, pp. 37-43. (Acceptance ratio: 22%)

#### ***National/International Conference Proceedings/Reviewed papers***

- (185) AltAlt: Combining the advantages of Graphplan and Heuristic State Search. Romeo Sanchez Nigenda, XuanLong Nguyen and Subbarao Kambhampati. Proc. Intl. Conference on Knowledge-based Computer Systems (KBCS-2000). Mumbai. India.
- (186) X. Li, S. Kambhampati and J. Shah. "ASUPPA: A Framework for Interactive and Iterative Synthesis and Improvement of Process Plans." DETC2000/CIE-14628. Proc. of DETC'00, ASME 2000 Design Engineering Technical Conferences and Computer and Information Engineering Conference. September, 2000.
- (187) X. Li, S. Kambhampati, K. Hirode and J. Shah. "Process Planner's Assistant: An incremental and interactive approach to automating process planning." ASME Design Engineering Technical Conference, 1997
- (188) S.H. Lee, M.R. Cutkosky and S. Kambhampati, "Incremental and Interactive Geometric Reasoning for Fixture and Process Planning," *Proceedings of 1992 ASME Winter Annual Meeting on Computer based Approaches to Concurrent Engineering*, November 1991.
- (189) S. Kambhampati and J.M. Tenenbaum, "Planning in Concurrent Domains," *Proceedings of the 1990 DARPA Workshop on Innovative Approaches to Planning, Scheduling and Control*, San Diego, CA, November 1990, pp. 93-99.
- (190) S. Kambhampati and M.R. Cutkosky, "An Approach Toward Incremental and Interactive Planning for Concurrent Product and Process Design," *Proceedings of 1990 ASME Winter Annual Meeting on Computer based Approaches to Concurrent Engineering*, Dallas, TX, November 1990.

- (191) S. Kambhampati and J.A. Hendler, "Adaptation of Plans via Annotation and Verification," *Proceedings of the 1st International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems*, Tullahoma TN, June 1988 pp. 164-170.
- (192) S. Kambhampati and L.S. Davis, "Multi Resolution Path Planning for Mobile Robots," *Proceedings of the DARPA Image Understanding Workshop*, pp. 421-432, Miami Beach, FL, December 1985, pp. 421-432.
- (193) F.P. Andresen, L.S. Davis and S. Kambhampati, "Visual Algorithms for Autonomous Navigation," *Proceedings of the IEEE International Conference on Robotics and Automation*, St. Louis, MO, March 1985, pp. 856-861.

***Symposia and Workshop Publications (reviewed proceedings):***

- (194) Sailik Sengupta, Andrew Dudley, Tathagata Chakraborti and Subbarao Kambhampati. Investigation of Bounded Misclassification for Operational Security of Deep Neural Networks AAAI'18 Workshop on Engineering Dependable and Secure Machine Learning Systems
- (195) Sailik Sengupta, Tathagata Chakraborti and Subbarao Kambhampati. MTDeep - Boosting the Security of Deep Neural Nets Against Adversarial Attacks with Moving Target Defense AAAI'18 Workshop on Engineering Dependable and Secure Machine Learning Systems
- (196) Sailik Sengupta, Tathagata Chakraborti, Sarath Sreedharan, Satya Gautam Vadlamudi and Subbarao Kambhampati RADAR - A Proactive Decision Support System for Human-in-the-Loop Planning AAAI 2017 Fall Symposium on Human-Agent Groups: Studies, Algorithms and Challenges. (Also presented at the ICAPS Workshop on User Interfaces for Scheduling and Planning (UISP) 2017).
- (197) Sarath Sreedharan\*, Tathagata Chakraborti\* and Subbarao Kambhampati Explanations as Model Reconciliation - A Mutli-Agent Perspective AAAI 2017 Fall Symposium on Human-Agent Groups: Studies, Algorithms and Challenges.
- (198) Sarath Sreedharan\*, Tathagata Chakraborti\* and Subbarao Kambhampati Balancing Explicability and Explanation in Human-Aware Planning AAAI 2017 Fall Symposium on Artificial Intelligence for Human-Robot Interaction (AI-for-HRI).
- (199) Yu Zhang, Sarath Sreedharan, Anagha Kulkarni, Tathagata Chakraborti, Hankz Hankui Zhuo and Subbarao Kambhampati. Plan explicability for robot task planning. RSS Workshop on Planning for Human-Robot Interaction, 2016
- (200) Tathagata Chakraborti, Kartik Talamadupula, Yu Zhang & Subbarao Kambhampati A Formal Framework for Studying Interaction in Human-Robot Societies AAAI 2016 Workshop on Symbiotic Cognitive Systems.
- (201) A Game Theoretic Approach to Ad-hoc Coalitions in Human-Robot Societies Tathagata Chakraborti, Venkata Vamsikrishna Meduri, Vivek Dondeti & Subbarao Kambhampati AAAI 2016 Workshop on Multiagent Interaction without Prior Coordination.
- (202) Lydia Manikonda, Heather Pon-Barry, Subbarao Kambhampati<sup>1</sup>, Eric Hekler & David W. McDonald Venting Weight: Analyzing the Discourse of an Online Weight Loss Forum AAAI 2016 Workshop on World Wide Web and Population Health Intelligence

- (203) Tathagata Chakraborti; Yu Zhang; David Smith; and Subbarao Kambhampati. Planning with Stochastic Resource Profiles: An Application to Human-Robot Co-habitation. ICAPS Workshop on Planning and Robotics (PlanRob) 2015.
- (204) Tathagata Chakraborti, Gordon Briggs, Kartik Talamadupula, Matthias Scheutz, David Smith and Subbarao Kambhampati. Planning for Serendipity -- Altruism in Human-Robot Cohabitation. ICAPS Workshop on Planning and Robotics (PlanRob) 2015.
- (205) Lydia Manikonda, Tathagata Chakraborti, Sushovan De, Kartik Talamadupula, Subbarao Kambhampati. AI-MIX: Using Automated Planning to Steer Human Workers towards Better Crowdsourced Plans HCOMP 2014. Works in Progress.
- (206) Lydia Manikonda, Heather Pon-Barry, Subbarao Kambhampati, Eric Hekler & David W. McDonald. Discourse Analysis of User Forums in an Online Weight Loss Application ACL 2014 Joint Workshop on Social Dynamics and Personal Attributes.
- (207) Kartik Talamadupula, Subbarao Kambhampati, Yuheng Hu, Tuan Anh Nguyen, Hankz Hankui Zhuo: Herding the Crowd: Automated Planning for Crowdsourced Planning. HCOMP (Works in Progress / Demos) 2013.
- (208) Kartik Talamadupula & Subbarao Kambhampati. Easychair as a Pedagogical Tool Engaging Graduate Students in the Reviewing Process. EAAI 2014 (AAAI).
- (209) A Formal Analysis of Required Cooperation in Multi-agent Planning Yu Zhang & Subbarao Kambhampati ICAPS Workshop on Distributed Multi-Agent Planning (DMAP), 2014.
- (210) Srijith Ravikumar, Kartik Talamadupula, Raju Balakrishnan Subbarao Kambhampati. RARProp: Ranking Tweets by Exploiting the Tweet/User/Web Ecosystem and Inter-Tweet Agreement AAAI 2013 (Late-breaking paper)
- (211) Kartik Talamadupula, Matthias Scheutz, Gordon Briggs, and Subbarao Kambhampati. On the Many Interacting Flavors of Planning for Robotics ICAPS 2013 Workshop on Planning and Robotics. 2013
- (212) Kartik Talamadupula, David Smith, William Cushing and Subbarao Kambhampati. A Theory of Intra-Agent Replanning ICAPS 2013 Workshop on Distributed and Multi-Agent Planning, 2013
- (213) Srijith Ravikumar, Raju Balakrishnan and Subbarao Kambhampati. Ranking Tweets Considering Trust and Relevance. SIGMOD Workshop on Information Integration on the Web (IIWeb), 2012.
- (214) Kartik Talamadupula, Paul Schermerhorn, J. Benton, Subbarao Kambhampati, and Matthias Scheutz. Planning for Agents with Changing Goals ICAPS 2011 System Demonstration. Placed 3rd for the "Best Demo" award
- (215) Kartik Talamadupula, Subbarao Kambhampati, Paul Schermerhorn, J. Benton and Matthias Scheutz. Planning for Human-Robot Teaming. ICAPS 2011 Workshop on Scheduling and Planning Applications, 2011.
- (216) William Cushing, J. Benton, Subbarao Kambhampati. Cost Based Satisficing Search Considered Harmful Technical report arxiv:1103.3687; March 2011. ICAPS 2011 Workshop on Heuristics for Domain Independent Planning.

- (217) J. Benton, Patrick Eyerich and Subbarao Kambhampati Enhancing Search for Satisficing Temporal Planning with Objective-driven Decisions ICAPS 2011 Workshop on Heuristics for Domain Independent Planning.
- (218) Tuan Nguyen, Subbarao Kambhampati, Minh Do. Synthesizing Robust Plans under Incomplete Domain Models Technical report arxiv:1104.5069; April 2011. Presented at AAAI 2011 Workshop on Generalized Planning.
- (219) Tuan A. Nguyen and Subbarao Kambhampati and Minh B. Do. Assessing and Generating Robust Plans with Partial Domain Models ICAPS 2010 Workshop on Planning under Uncertainty. 2010.
- (220) Kartik Talamadupula, J. Benton, Paul Schermerhorn, Subbarao Kambhampati and Matthias Scheutz. Integrating a ClosedWorld Planner with an Open World Robot: A Case Study. ICAPS 2009 workshop on bridging the gap between action and motion planning. 2009
- (221) Fluent Merging: A General Technique to Improve Reachability Heuristics and Factored Planning Menkes van den Briel, Subbarao Kambhampati and Thomas Vossen. ICAPS 2007 Workshop on Heuristics for Domain Independent Planning: Progress, Ideas, Limitations and Challenges.
- (222) Towards Model-lite Planning: A Proposal For Learning & Planning with Incomplete Domain Models Sungwook Yoon and Subbarao Kambhampati ICAPS 2007 Workshop on AI Planning and Learning.
- (223) Hierarchical Strategy Learning with Hybrid Representations Sungwook Yoon and Subbarao Kambhampati AAAI 2007 Workshop on Acquiring Planning Knowledge via Demonstration. 2007.
- (224) Model-Lite Planning: Diverse Multi-option plans & Dynamic Objective Functions. Daniel Bryce, William Cushing & Subbarao Kambhampati ICAPS 2007 Workshop on Planning and Plan Execution for Real World Systems.
- (225) Towards Model-lite Planning: A Proposal For Learning & Planning with Incomplete Domain Models Sungwook Yoon and Subbarao Kambhampati ICAPS 2007 Workshop on AI Planning and Learning.
- (226) Finding Admissible Bounds for Over-subscription Planning Problems J. Benton, Menkes van den Briel & Subbarao Kambhampati ICAPS 2007 Workshop on Heuristics for Domain Independent Planning: Progress, Ideas, Limitations and Challenges.
- (227) QPIAD: Query processing over Incomplete Autonomous Databases Hemal Khatri, Jianchun Fan, Yi Chen & Subbarao Kambhampati. ICDE 2007 (poster).
- (228) Thomas Hernandez and Subbarao Kambhampati. Improving Text Collection Selection with Coverage and Overlap Statistics. Proc. of Word Wide Web Conference, 2005. (poster paper).
- (229) Providing ranked relevant results for Web database queries. Ullas Nambiar and Subbarao Kambhampati. Proc. of Word Wide Web Conference, 2004. (poster paper).
- (230) Over-subscription in Planning: A Partial Satisfaction Problem. Menkes van den Briel, Romeo Sanchez Nigenda and Subbarao Kambhampati. ICAPS 2004 Workshop on Integrating Planning into Scheduling.
- (231) Planning-Scheduling Connections through Exogenous Events. Minh B. Do, Subbarao Kambhampati and Terry Zimmerman. ICAPS 2004 Workshop on Integrating Planning

into Scheduling.

- (232) Planning in Belief Space with a Labelled Uncertainty Graph Daniel Bryce, Subbarao Kambhampati and David E. Smith. AAAI 2004 workshop on Learning and Planning in Markov Decision Processes.
- (233) Romeo Sanchez Nigenda, Subbarao Kambhampati. Parallelizing State Space Plans Online. IJCAI 2003. Poster.
- (234) Terry Zimmerman, Subbarao Kambhampati. Using available memory to transform Graphplan's search. IJCAI 2003. Poster.
- (235) Zaiqing Nie, Subbarao Kambhampati. Frequency-based Coverage Statistics Mining for Data Integration. IJCAI Workshop on Information Integration on the Web. 2003.
- (236) Ullas Nambiar and Subbarao Kambhampati. Answering Imprecise Database Queries. ACM WIDM 2003 (Workshop on Web Information and Data Management).
- (237) Subbarao Kambhampati. A Critique of Knowledge-based planning track at ICP Position paper presented at the ICAPS Workshop on the Competition: Impact, Organization, Evaluation and Benchmarks. 2003.
- (238) Dan Bryce and Subbarao Kambhampati. Heuristic guidance measures for Conformant Planning. ICAPS workshop on Planning under uncertainty and incomplete information. 2003
- (239) S. Kambhampati, Senthil, G. Source-call ordering techniques for information gathering. IJCAI Workshop on Intelligent Information Integration. 1999.
- (240) E. Lambrecht and S. Kambhampati. Minimizing recursive information gathering plans. *In Proc. AAAI Workshop on Integrating Information Sources*. 1998.
- (241) X. Li, S. Kambhampati and J. Shah. An iterative and interactive approach for process planning. *In Proc. AAAI/SIGMAN workshop on AI Approaches in Manufacturing*, 1998.
- (242) E. Parker and S. Kambhampati. Making Graphplan goal-directed. Working notes of AIPS-98 workshop on Planning as combinatorial search. 1998.
- (243) A. Mali and S. Kambhampati. Refinement Planning as Satisfiability. Working notes of AIPS-98 workshop on Planning as combinatorial search. 1998.
- (244) A. Mali and S. Kambhampati. Frugal propositional encodings for planning. Working notes of AIPS-98 workshop on Planning as combinatorial search. 1998.
- (245) L. Ihrig and S. Kambhampati. "Automatic storage and indexing of plan derivations based on replay failures." *In Proc. of IJCAI Workshop on formal methods for reuse of plans, proofs and programs.*, August 1995.
- (246) S. Kambhampati. "No Planner is an Island: Lessons from Nextcut process planning System." In working notes of AAAI Spring Symposium on Integrated planning applications. Stanford, March 1995.
- (247) L. Ihrig and S. Kambhampati. "Evaluating the effectiveness of replay in partial order planning." In working notes of AAAI workshop on Case-based Reasoning, Seattle, 1994.
- (248) S. Kambhampati et. al. "Integrated approaches to improving the effectiveness of plan reuse," Proceedings of ARPA Planning Initiative workshop, Tucson, February 1994.

- (249) J. Hendler et. al. "Massively parallel support for casebased planning," Proceedings of ARPA Planning Initiative workshop, Tucson, February 1994.
- (250) S. Kambhampati, "On the Utility of Systematicity: Understanding Tradeoffs between Redundancy and Commitment in Partial-Ordering Planning," *AAAI Spring Symposium on Foundations of Automatic Planning: The classical approach and beyond*, March 1993
- (251) S. Kambhampati, "Utility Tradeoffs in Incremental Plan Modification," *AAAI Spring Symposium on Computational Considerations in supporting incremental modification and reuse*," Stanford, CA, March 1992.
- (252) S. Kambhampati, J.M. Tenenbaum, S.H. Lee and M.R. Cutkosky, "Towards a Hybrid Planning Architecture," *AAAI Fall Symposium on Principles of Hybrid Reasoning*, Asilomar, CA, November 1991.
- (253) S. Kambhampati, J.M. Tenenbaum, S.H. Lee and M.R. Cutkosky, "Interactive and Incremental Planning for Concurrent Design: A Case Study," Proceedings of the DARPA Workshop on Manufacturing, Salt Lake City, Utah, February 1991.
- (254) S. Kambhampati, "A Framework for Replanning in Hierarchical Nonlinear Planning," *AAAI Spring Symposium on Planning in Uncertain, Unpredictable, or Changing Environments*, Stanford, CA, March 1990.
- (255) S. Kambhampati, "A Classification of Plan Modification Strategies based on Coverage and Information Requirements," *AAAI Spring Symposium on Case-Based Reasoning*, Stanford, CA, March 1990.
- (256) S. Kambhampati and J.M. Tenenbaum, "Towards a Paradigm for Planning in Interactive Domains with Multiple Specialized Domain Modules," *AAAI Workshop on Automated Planning for Complex Domains*, Boston, MA, August 1990.
- (257) S. Kambhampati, J.M.Tenenbaum and M.R. Cutkosky, "Towards an Incremental and Interactive Paradigm for Process Planning in Concurrent Design Environments," *AAAI Workshop on Concurrent Engineering Design*, Boston, MA, August 1990.
- (258) S. Kambhampati, "Integrating Planning and Reuse: A Framework for Flexible Plan Reuse," *Proceedings of the 2nd DARPA Workshop on Case-Based Reasoning*, Pensacola Beach, FL, May 1989.
- (259) S. Kambhampati, "Representational Requirements for Plan Reuse," *Proceedings of the 2nd DARPA Workshop on Case-Based Reasoning*, Pensacola Beach, FL, May 1989.
- (260) J.A. Hendler and S. Kambhampati, "Refitting Plans for Case-Based Reasoning," *Proceedings of the DARPA Workshop on Case-Based Reasoning*, Clearwater Beach, FL, May 1988.

***Unpublished Technical Reports:***

- (261) Thomas Hernandez and Subbarao Kambhampati. Integration of Bioinformatic Sources: Current Approaches and Systems. ASU CSE TR 03-005. July 2003.
- (262) E. Lambrecht and S. Kambhampati. Planning for Information Gathering: A tutorial Survery. ASU CSE TR 97-017, May 1997.
- (263) S. Kambhampati and B. Srivastava. Unifying Classical Planning Approaches. ASU CSE Technical Report 96-006. (59 pages)

- (264) L. Ihrig and S. Kambhampati. "On the Relative Utility of Plan-space vs. State-space planning in a case-based framework." ASU CSE TR 94-006, December 1994
- (265) S. Batchu, S. Kambhampati, H. Kartheek and J. Shah. An Iterative and Interactive approach for process planning. ASU CSE TR 95-023. September 1995.
- (266) S. Kambhampati. "Classical Planning: A Compilation of notes from a seminar course held at ASU in Spring 1993,' ASU-CS-TR 93-003, Arizona State University, 1993.
- (267) S. Ghosh, J.A. Hendler, S. Kambhampati and B. Kettler, "Commonlisp Implementation of a NONLIN-based Hierarchical Planner," Technical Report, Dept. Comp. Sci, University of Maryland, 1991.

***Theses:***

- (268) S. Kambhampati, "Flexible Reuse and Modification in Hierarchical Planning: A Validation Structure Based Approach," **Ph.D. Thesis**, University of Maryland, College Park, MD, 1989.
- (269) S.Kambhampati, "Multi Resolution Path Planning for Mobile Robots," **M.S. Thesis**, University of Maryland, College Park, MD, 1985.
- (270) S. Kambhampati, "Some Experiments on Isolated Word Speech Recognition for Confusable Vocabulary," **B.TECH. Project Report**, Indian Institute of Technology, Madras, India, 1983.

***Invited Presentations (not including the conference presentations):***

- Challenges of Human-Aware AI Systems. AAAI 2018 Presidential Address. New Orleans. February, 2018.
- Our Relationship with AI. Panelist. Computer History Museum. September 2017.
- Explicability and Explanations in Human-Aware AI Agents. Invited talk at IJCAI 2017 Workshop on Explainable Artificial Intelligence (XAI). August 2017.
- Rise of AI: Status, Thresholds, Attack Surfaces. National Academies of Science. August 2017.
- The Rise of AI and The Challenges of Human-Aware AI Systems. Keynote Talk. CCF-GAIR Meeting. Shenzhen. June 2017.
- The Rise of AI and The Challenges of Human-Aware AI Systems. IIIT Hyderabad. June 2017.
- Challenges of Human-Aware AI Systems; Microsoft Faculty Summit. July 2017.
- Societal Impacts of Artificial Intelligence. Talk at Spirit of the Senses Salon. May 2017.
- Machines Take Over the World. Panelist. **Bill Nye Saves the World. Season 1. Episode 3. Netflix.** April 2017.
- Testimony on Impacts of Artificial Intelligence to Canadian Senate Standing Committee on Social Affairs, Science & Technology, Senate of Canada. March 2017.
- Origins Great Debate: Future of Artificial Intelligence: Who is in control?. Panelist. Tempe. February 2017.
- Planning Challenges in Human-Aware AI Systems. Invited talk at AAAI 2017 Workshop on Human-Aware Artificial Intelligence. San Francisco. February 2017.
- Planning Challenges in Human-Machine Collaboration (In Praise of Human-Aware AI). Invited talk at Johnson Controls. Milwaukee. January 2017.
- Innovation Talks: Advancing the Scientific Frontiers of Cognitive Systems. IBM World of Watson. Panelist. Las Vegas. October 2016.
- Planning Challenges in Human-Machine Collaboration (In Praise of Human-Aware AI). Keynote speech at Chinese Conference on Artificial Intelligence. Beijing. August 2016
- Aspen Institute AI Round Table, August 2016. (Invited participant). Aspen.
- The Path to General AI goes through Human-Machine Collaboration. An invited briefing to the DOD JASON Committee. San Diego. June 2016.
- Existential Threat, Moi? Panel presentation at the Governance of Emerging Technologies Conference. Tempe. May 2016,
- Symbols-Neurons, Logic-Probability, Replace-Augment, Disappointment-Doomsday: Where will the AI pendulum swing next? Invited talk at AAAI-2016 Open house. Phoenix. February 2016.
- Future of Artificial Intelligence. Part of a discussion series held by the School of Future of Innovation. ASU. April 2016.
- AI Thresholds. A presentation at Hastings Center workshop on Control and Responsible Innovation in Artificial Intelligence. April 2016.



- Planning challenges in human-machine collaboration. Lockheed Martin Distinguished Colloquium. Cherry Hill, PA. April 2016.
- Planning challenges in human-machine collaboration. AI Seminar. University of Washington. February 2016.
- Human-Aware and Human-in-the-Loop Planning and Decision Support. Invited short "What's Hot" talk at AAAI 2014. July 2014.
- Challenges of Human-in-the-loop Planning & Decision Support. Seminar at University of Connecticut 2014. October 2014.
- Human-in-the-Loop/Human-Aware Planning and Decision Support. Talk at ARL Invitational Workshop. October 2014.
- Wittgenstein's papers and Faraday's talks: Maxims for a Milk-fed Researcher. Invited Mentoring Talk at IJCAI 2013. August 2013.
- "You can't do that, Dave! Collateral Lessons from a Computational Quest to Design HAL", 16th ASU Last Lecture Series, April 2011.
- "Back to the Future of Planning" Invited lectures at ACAI Summer School on Automated Planning, Freiburg, Germany, 2011.
- "Incomplete Domain Models, Uncertain Users, Unending Planning Open Worlds" ONR/IPAM Machine Reasoning Workshops 3 & 4. November 2010.
- "Incomplete domain models, uncertain users and open worlds: Foundations of Model-lite Planning" Invited talk at the CMU Robotics Institute Seminar. April 2010.
- "How to write a good research paper?" Invited talk at the Doctoral Consortium. International Conference and Planning and Scheduling. Sep 2009.
- "Do Robots need a Bill of Rights?" A Science Cafe Discussion at AZ Science Center. 11/2007.
- "Human-Aware AI" Talk given at University of Washington Seminar on Future of AI. 11/2007.
- "Real World Planning: Soft Constraints & Incomplete Models" Colloquium at Dept of CSE, Washington University, St. Louis. 10/2007
- "Real World Planning: Soft Constraints & Incomplete Models" Colloquium at Institute for Human-Machine Cognition. Pensacola, FL. 9/2007.
- "Learning for Planning" A 4-hour Tutorial given at Intl. Conf. on Planning and Scheduling 2007 (joint with Sungwook Yoon).
- "Information Integration on the Web" A 4-hour Tutorial given at the National Conference on Artificial Intelligence, 2007 (joint with Craig Knoblock)
- "Planning & Scheduling with Oversubscribed Resources, Preferences and Soft Constraints" A 4-hour Tutorial given at the National Conference on Artificial Intelligence, 2007 (Joint with Minh Binh Do and Terry Zimmerman).
- "Planning Graph Based Reachability Heuristics" A 4-hour Tutorial given at Intl. Joint Conference on Artificial Intelligence, 2007. (Joint with Daniel Bryce).
- "Planning and Learning" Lectures at the 2006 Machine Learning Summer School. Canberra. Australia.

- "Scalability Revolution in Planning" Lecture at Royal Melbourne Institute of Technology. 2006.
- "Adaptive Information Integration." Invited Seminar at USC/Information Sciences Institute. November, 2004.
- "1001 ways to skin a planning graph for heuristic fun and profit." Invited talk at 13th International Conference on Planning and Scheduling (ICAPS). Subbarao Kambhampati. ICAPS 2003.
- "Information Integration on the Web," a 4-hour tutorial at National Conference on AI, Edmonton, Alberta. Canada. August 2002 (Co-presented with Craig Knoblock). <http://rakaposhi.eas.asu.edu/i3-tut.html>
- "Integrating Planning and Scheduling: Status and Prospects," Invited talk. Intl. Conference on Knowledge Based Computer Systems. Mumbai, India. December, 2000.
- "A Unifying and Brand-name free introduction to Planning," Invited lecture. PLANET Summer School on Planning. Cyprus. September 2000.
- "Recent Advances in AI Planning: A unified view", a 4-hour tutorial at National Conference on AI, Austin, Texas. July 2000. <http://rakaposhi.eas.asu.edu/planning-tutorial.html>
- "Recent Advances in AI Planning: A unified view", a 4-hour tutorial at International Joint Conference on AI, Stockholm, Sweden. July 1999.
- "Refinement Planning: Status and Prospectus", Invited Talk at National Conference on AI. 1996.
- "Winning by being lazy: Ideas of abstraction, hierarchy and least-commitment in Planning", Invited Talk at NIPS-98 workshop on Reinforcement Learning. 1998.
- "Refinement planning". Departmental Colloquium at Indian Institute of Technology, Kharagpur, India. 1998.
- "Refinement planning". Departmental Colloquium at Indian Institute of Science, Bangalore, India. 1998.
- "Disjunctive refinement planning as a unifying framework for scaling up plan synthesis", Invited Talk at ARPA Planning Initiative PI meeting. June 1997. Boston.
- "A Universal Classical planning algorithm based on refinement search", University of Kaiserslautern, Germany, September 1995.
- "Universal classical Planning" Seminar at Naval Research Laboratory, Artificial Intelligence Center, April 1995.
- "Refinement Planning as a unifying framework for classical planning", Seminar at University of Texas, El Paso, March 1995.
- "Planning and Learning," Panelist at the 2nd Intl. Conference on AI Planning Systems. Chicago, June 1994.
- "Refinement Search as a Unifying Framework for Analyzing Planning Algorithms," Colloquium talk at Edinburgh University, Department of Artificial Intelligence. Edinburgh. May 1994.
- "Computational Considerations in Supporting Incremental Modification and Reuse," Fifth Annual Spring Symposium Series Public Forum on *Research Advances of Artificial Intelligence*, American Association for Artificial Intelligence, Stanford University, CA, March 26, 1992.

- “Improving Generality and Efficiency of Classical Planning,” A series of seminar talks at Indian Institutes of Technology (Madras, Delhi, Kanpur, Kharagpur, Bombay), and Indian Institute of Science, Bangalore, India. June 1992.
- “Supporting Flexible Plan Reuse,” Symposium on Learning Methods for Planning and Scheduling, Palo Alto, CA, January 1991.
- “A Theory of Incremental Plan Modification and its applications,” SIGLUNCH, Knowledge Systems Laboratory, Stanford University, February 1991.

## *Graduate Student Dissertations, Theses and Projects supervision*

### *Ph.D. Dissertations*

- (1) **Yuheng Hu**, Ph.D. 2014. Worked on event analytics for social media. Currently on the faculty at University of Illinois, Chicago.
- (2) **Kartik Talamadupula**, Ph.D. 2014. Worked on planning for human-robot teaming. Currently Research Staff Member at IBM Watson Labs.
- (3) **Tuan Nguyen**, Ph.D. 2014. Worked on planning with partial preferences and domain models. Currently at Mathworks.
- (4) **Sushovan De**, Ph.D. 2014. Worked on Data Rectification for Big Data. Currently at Google.
- (5) **William Cushing**, Ph.D. 2012. Worked on the foundations of temporal planning. Currently a post-doctoral fellow at UC Berkeley (with Prof. Stuart Russell).
- (6) **J. Benton**, Ph.D. 2012. Worked on partial satisfaction planning. Currently a research scientist at SIFT LLC.
- (7) **Raju Balakrishnan**, Ph.D. 2012. Worked on deep web source selection. Currently at Groupon.
- (8) **Menkes van den Briel**, Ph.D. 2008. Worked on AI & OR Techniques for scaling up Automated Planning. *Honorable Mention for ICAPS Best Dissertation Award", 2009*. First Employment: Research Faculty Member at University of Colorado (Leeds Business School).
- (9) **Daniel Bryce**, Ph.D. 2007. Worked on scaling up planning under uncertainty. *Winner of ICAPS Best Dissertation Award, 2009*. Currently Assistant Professor at Utah State University (Computer Science Department).
- (10) **Ullas Nambiar**, Ph.D. 2005. Worked on supporting imprecise queries over autonomous databases. Currently research scientist at IBM India Research Labs.
- (11) **Romeo Sanchez**, Ph.D. 2005. Worked on reachability heuristics for planning. Currently research scientist at USC/Information Sciences Institute.
- (12) **Binhminh Do**, Ph.D. August 2004. Worked on metric Temporal Planning--the SAPA project. *Winner of the Department Outstanding Ph.D. Student Award, 2005 (also ASU nominee for ACM Distinguished Dissertation Award)*. *Also received an honorable mention for 2010 ICAPS 10-year Influential Paper Award*. Currently a Research Scientist at PARC (formerly called Xerox Palo Alto Research Labs).
- (13) **Zaiqing Nie**, Ph.D. Spring 2004. Worked on multi-objective query optimization and similarity queries for Havasu Data Integration system. Currently with Microsoft Research Asia.
- (14) **Terry Zimmerman**, Ph.D. 2003. Dissertation on Effective use of memory in Graphplan. Currently Post Doctoral Fellow at CMU Robotics Institute.
- (15) **Biplav Srivastava**, Ph.D. Dissertation: "*Efficient Planning by Effective Resource Reasoning*". March 2000. M.S. Thesis: "*Using refinement search to unify and synthesize classical planners*" (1996). Currently at IBM India Research Labs, New Delhi.

- (16) **Amol D. Mali**, Ph.D. Dissertation: “*Hierarchical task network planning as Satisfiability*,” Ph.D. 1999. Current position: Assistant Professor, University of Wisconsin, Milwaukee.
- (17) **Xiaomin Li**. Ph.D. Dissertation: “*ASUPPA: Interactive and Iterative Framework for Process Planning*” Ph.D. 2001. Quest Communication, Denver.
- (18) **Laurie Ihrig**, Ph.D. Dissertation: “*Improving planning performance through derivational replay*.” (1996). Boeing Corp., Phoenix.

### ***M.S. Theses***

- (1) **Sarath Sridharan**. M.S. 2016. Worked on multi-agent planning. Department Outstanding Masters Student Award, 2017. Continuing Ph.D. ( **Recipient of CIDSE Outstanding M.S. Student Award, 2017**)
- (2) **Vignesh Narayanan**. M.S. 2015. Worked on human-factors analysis of automated planning for human-robot teaming. First Employment: Amazon.
- (3) **Anirudh Acharya**. M.S. 2015. Worked on joint topic modeling for tweet/event alignment. First Employment: Yahoo!
- (4) **Tejas Mallapura Umamaheshwar**. M.S. 2015. Worked on Hashtag Recovery for Twitter Messages. First Employment: Mathworks.
- (5) **Manikandan Vijaykumar**, M.S. 2014. Worked on Hashtag Recovery for Twitter Messages. First Employment: American Express.
- (6) **Preet Inder Singh Rihan**, M.S. 2013. Worked on query processing for probabilistic data. First Employment: Blomberg LP R&D.
- (7) **Srijith Ravikumar**, M.S. 2013. Worked on ranking tweets. First Employment: Amazon.
- (8) **Manish Jha**, M.S. 2011. Worked on topic-sensitive source rank for deep web sources. First Employment: Amazon.
- (9) **Rohit Raghunathan**, M.S. 2011. Worked on principled probabilistic frameworks for query processing over autonomous databases in the presence of incompleteness. First Employment: Amazon.
- (10) **Chris White**, (Integrated) M.S. 2011. Worked on distributed approaches to Taxi World. First Employment: Lockheed Martin. .
- (11) **Sanil Salvi**, M.CS 2009. Worked on integrating databases on the web in the absence missing primary-foreign key relations.
- (12) **Ravi Gummadi**, M.S. 2009. Worked on integrating databases on the web in the absence missing primary-foreign key relations. Currently at Facebook.
- (13) **Anupam Khulbe**, M.S. 2009. Worked on integrating databases on the web in the absence missing primary-foreign key relations. Currently at Amazon.
- (14) **Garrett Wolf**, MCS 2008. Worked on handling incompleteness and imprecision in autonomous databases. Department Outstanding Masters Student Award. 2008.
- (15) **Aravind Kalavagattu**, M.S. 2008. Worked on learning approximate functional dependencies from data. Currently at Yahoo.

- (16) **Bhaumik Chokshi**, M.S. 2007. Worked on overlap-aware techniques for collection selection. Currently at MSN Search Live.
- (17) **Hemal Khatri**, M.S. 2006. Worked on handling incompleteness in autonomous databases. Currently at MSN Search Live. **Winner of the Department Outstanding M.S. Student Award, 2007..**
- (18) **Jianchun Fan**, M.S. 2006. Worked on multi-objective query optimization for data aggregation. Currently at Amazon.
- (19) **Thomas Hernandez**, M.S. 2004. Worked on collection selection with overlapping text collections. Currently at Amazon. **Winner of the Department Outstanding M.S. Student Award, 2005.**
- (20) **Sreelakshmi Vaddi**, M.C.S. 2003. Worked on execution issues in data integration.
- (21) **XuanLong Nguyen**, M.S. 2001 Thesis: “*Heuristic Search Control for Plan Synthesis Algorithms and Dynamic Constraint Satisfaction Problems*”
- (22) **Senthil Gnanaprakasam**, M.S 2001. Thesis: “*A System-R style Join Order Optimization for Internet Information Gathering.*” Currently at Intel, Seattle.
- (23) **Eric Lambrecht**, M.S. Student. RA since Fall 1996. M.S. thesis: “*Optimizing Recursive Information Gathering Plans,*” Founded *shareyourworld.com.*, San Francisco.
- (24) **Yong Qu**, M.S. Thesis: “*Extending EBL framework to planning with expressive action representations*” (1996). Currently at Microsoft Corp., Seattle.
- (25) **Suresh Katukam**, M.S. Thesis: “*Explanation based learning for search control rules for partial order planning*” (1995). Currently at Hypercom, Phoenix.
- (26) **Bulusu Gopi Kumar**, M.C.S. Project: “*Systematic and complete dependency directed backtracking* (1994)
- (27) **Eric Cohen**. M.C.S. Project: “*Minimality based pruning techniques for Partial Order Planning*” (1993)
- (28) **Dennis Chen**, M.C.S. Project: “*Comparisons between Opaque and Interleavable macros,*” (1993)
- (29) **Jengchin Chen**, M.C.S. Project: “*Relative utility of EBG based plan reuse in total order vs. partial order planning,*” (1992)

### ***Undergraduate Research Students***

- (1) Daniel D’Souza (Spring 2015-). Honors Thesis. Spring 2017. URAP, FURI.
- (2) Gabriel Saba (Spring 2016-) Honors thesis, Spring 2017.
- (3) Cameron Dudley (Spring 2016-)
- (4) Jake Merdich (Summer 2015; URAP)
- (5) Nathaniel Mendoza (Summer 2014-Spring 2015)(URAP; FURI)
- (6) Sumbhav Sethia (Summer 2013-Fall 2014)(URAP; FURI)
- (7) Wyatt Tyree (Summer 2014-Fall 2014)(URAP)
- (8) Paul Reesman (Summer 2013)(URAP)
- (9) Matthew Mellott (Fall 2012--Spring 2013)(NSF REU, FURI Scholar)

- (10) Nicole Ang (Fall 2012)(NSF REU)
- (11) James Fiacco (Fall 2011) (FURI Scholar)
- (12) Alex Wallace(Summer 2009-Spring 2010) (B.S. honors thesis. Thesis) (Currently at U. Arizona Med school)
- (13) Chris White(Fall 2009-Spring 2010) (B.S. honors thesis)(Continued for Integrated M.S.)
- (14) Alan Hogan (Spring 2008) (Undergraduate FURI Scholar)
- (15) Kartik Talamadupula(Spring 2007-) (Bachelors; Dec 2007)(Continued for PhD)CSE Distinguished Senior award, 2008. CRA Outstanding Undergraduate Student (honorable mention), 2008 ( local press) Receptient of FURI and CS UG Research grants) Science Foundation of Arizona (SFAZ) Fellow (2008).
- (16) Wes Dyer (Spring 2004-) Undergraduate (honors thesis) (Thesis) (Currently at Microsoft).

## *Professional Activities and Service to the Research Community*

- **President, Association for the Advancement of Artificial Intelligence. 2016-18.**
- Trustee, Partnership for Artificial Intelligence. 2017-.
- **Program Chair, Intl. Joint Conference on Artificial Intelligence, 2016. Trustee 2013-18.**
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- **Program Co-Chair; National Conference on Artificial Intelligence, 2005 (Pittsburgh, PA).**
- **Program Co-Chair; International Conference on Planning and Scheduling, 2013 (Rome, Italy)**
- Steering Committee Member, IBM AI X-Prize. 2017-
- **Track Co-Chair; AI and Web Track, National Conference on Artificial Intelligence, 2010.**
- **Program Co-Chair; AI Planning Systems Conference, 2000 (Breckenridge, CO)**
- **Executive Council Member (Elected), American Association for Advancement of Artificial Intelligence, 2009-2012.**
- **Executive Council Member, International Conference on Planning and Scheduling. 2002-2008.**
- **Conference Committee Chair, AAAI. 2012-14.**
- Advisory Board Member, Journal of Artificial Intelligence Research (JAIR), 2008-present.
- Editorial Board Member, AI Magazine. 2007-2014
- **Area Chair**, International Joint Conference on Artificial Intelligence, 2007, 2013, 2015, 2017
- **Senior Program Committee Member**, National Conference on Artificial Intelligence, 2007, 2008, 2011, 2012, 2014.
- Senior Program Committee Member, International Joint Conference on Artificial Intelligence, 2009,2014.
- Program Committee Member, Intl. Conference on Planning and Scheduling, 2007, 2008, 2009, 2010, 2011, 2012, 2017.
- Editorial Board Member, IEEE Intelligent Systems. 2003-present
- Editorial Board Member, ACM Trans. on Intelligent Systems and Technology. 2012-present.
- Senior Program Committee Member, National Conference on Artificial Intelligence, 2006.
- Program Committee Member, Intl. Conference on Planning and Scheduling, 2006.
- Program Committee Member, European Semantic Web Conference, 2007.
- Program Committee Member, Intl. Conference on Planning and Scheduling, 2005. (Also organized the first-ever *Festivus*).
- Associate Editor, Journal of Artificial Intelligence Research (JAIR), 2003-2007.
- Executive Council Member, AI Planning and Scheduling Conference. 2000-2002
- Maintainer of Planning List Digest, a mailing list for AI Planning researchers, 1996-.
- Member, Editorial Board, Journal of Artificial Intelligence, 1995-97



- Co-Chair, IJCAI Workshop on Intelligent Information Integration on the Web. 2003.
- Co-Editor, Special Issue on Intelligent Information Integration. IEEE Intelligent Systems. 2003.
- Editor, Special Issue on Planning and Scheduling of the journal Constraints. 2001.
- Program Committee member, National Conference on AI, 2003.
- Program Committee member, AAMAS, 2003.
- Program Committee member, 13th International Conference on Planning and Scheduling. 2003.
- Program Committee member, Intl. Conference on Autonomous and Multi-Agent Systems, 2003.
- Program Committee member, Intl. Conf. on Knowledge Based Computer Systems. 2002.
- Program Committee member. European Conference on Planning. Toledo, Spain. September, 2001.
- Reviewer, IJCAI 2001.
- Program Committee Member and Session Chair, ACM SIGMOD Conference (ACM conference on Databases). Dallas, TX in May 2000.
- Program committee member. National Conference on AI. July 2000.
- Organizing Committee member. AAAI workshop on CSP approaches to planning. July 2000.
- Program committee member, 5th European Conference on Planning, Durham, UK, September 2000.
- Organizing Committee Member, AAAI Spring Symposium on Search in uncertain, incomplete and Dynamic environments. Held at Stanford, CA, March 1999.
- Reviewer, and Challenge paper coordinator, International Joint Conference on Artificial Intelligence, held at Stockholm, Sweden. August 1999.
- Program committee member and session chair, 15th National Conference on AI. Held at Madison, Wisconsin, July 1998.
- Program committee member and session chair, 4th AI Planning Systems Conference. Held at Pittsburgh, PA, May, 1998.
- Co-organizer, Workshop on planning as combinatorial search, 4th AI Planning Systems Conference, 1998.
- Program committee member, ASME Conference on Design for Manufacturing, 1998.
- Program committee member, 13th National Conference on AI, 1996.
- Workshop Chair, 13th National Conference on Artificial Intelligence, 1996
- Program Committee Member, 3rd European Planning Workshop, Assisi, Italy, 1995.
- Program Committee Member, 2nd International Conf. on AI Planning Systems, Chicago, 1994.
- Organizing Committee Member, AAAI Fall Symposium on “Adaptation of Knowledge for Reuse,” 1995.
- *Chair*, 1992 AAAI Spring Symposium on Computational Considerations in Supporting Modification and Reuse (March 1992)

- *Program Committee Member and Session Chair*, 10th National Conference on Artificial Intelligence (AAAI-92)
- *Program Committee Member and Session Chair*, 1st International Conferences on AI Planning Systems, College Park, MD, 1992.
- Organizing Committee Member, AAAI 1993 Spring Symposium on Foundations of Automatic Planning: The Classical Approach and Beyond
- Proposal Reviewer, National Science Foundation (1992)
- *Member*, American Association for Artificial Intelligence
- *Panel Member*, NSF KMCS proposal review panel, 1993; 1995; 1997; 1999; 2002.
- **Referee:**  
Journal of ACM, Artificial Intelligence Journal, Machine Learning, Journal of AI Research, Journal of Logic and Computation, IEE Expert, IEEE Trans. on Systems, Man and Cybernetics, ASME Transactions on Computer-aided Manufacturing, IEEE Intl. Conference on Robotics and Automation, IEEE Intl. Conference on Applications of Artificial Intelligence.

## *Selected Media Coverage*

- Uber Self-Driving Car Fatality Reveals the Technology's Blind Spots. Scientific American. March 2018. (Quoted).
- What Uber's fatal accident could mean for the autonomous-car industry
- Business leaders discuss the future of a digital workforce at ASU event. ASU Now. March 2018. (Coverage)
- The pros and cons of AI ASU Now. March 2018. (Interview)
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