October, 2026

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Research Interests

- **Planning and Reasoning Capabilities of Generative AI Systems::** Planning, reasoning, verification (in)abilities of LLMs, Understanding long CoT LLMs, Semantics of intermediate tokens, LLM-Modulo approaches, LLMs and VLMS as style critics.
- **Human-Aware AI Systems:** Explainable human-AI Interaction. 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):** Planning & Reasoning capabilities of Large Langauge Models (LLMs). 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, School of Computing & AI, 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)

3/25-6/26: Consulting Researcher, Microsoft Research.

6/25-9/26: Member, Samsung Global AI Advisory Board.

9/19-8/21: Privacy Fellow, Innovators Network Foundation.

9/18 - 8/22: Chief AI Officer, AI Foundation.

1/14 - present: Consultant, (incl. DiDi Research, SIFT LLC, Johnson Controls, Lockheed Martin)

Honors & Significant Service

- AAAI/EAAI Patrick Henry Winston Outstanding Educator Award, 2025.
- President, Association for the Advancement of Artificial Intelligence (AAAI), 2016-18. (President-Elect during 2014-16; Past-President 2018-20).
- Fellow, Association for the Advancement of Artificial Intelligence (AAAI), 2004.
- Fellow, American Association for the Advancement of Science (AAAS), 2017.
- Fellow, Association for Computing Machinery (ACM), 2019.
- Distinguished Alumnus, Indian Institute of Technology, Madras (Chennai). 2022
- Distinguished Alumnus, Dept. of Computer Science, University of Maryland, College Park. 2018.
- Chair, AAAS Section T (Information, Communication & computation), 2022-24.
- Member, Samsung Global AI Advisory Committee. 2025-26.
- Privacy Fellow, Innovators Network Foundation. 2019-20; 2020-21; 2021-22.
- Program Chair, Intl. Joint Conf. on AI (IJCAI), 2016 (Trustee, IJCAI, 2013-18).

- Program Co-Chair, AAAI Conference on Artificial Intelligence, 2005.
- Member, Board of Directors, Partnership for Artificial Intelligence, 2017-2018.
- 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).
- Best Researcher Award (Senior Faculty), ASU CIDSE, 2017
- 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, Intl. Conference on Planning and Scheduling, 2013.
- J.P. Morgan AI Faculty Research Award, 2019; 2021.
- IBM Faculty Award, 2004.
- Google Research Grant. 2016; 2013; 2010; 2008.
- Amazon Research Award. 2024.
- 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.
- AAAI Presidential Address (on Challenges of Human-Aware AI). AAAI 2018. New Orleans. February 2018.
- AAMAS Keynote Talk (on Synthesizing Explainable Behavior for Human-AI Collaboration). AAMAS 2019. Montreal. May 2019.
- Presidential Distingished Lecture (on Challenges of Human-Aware AI). Singapore Management University. April 2019.
- 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

- **IEEE AI 10 to Watch** (2020) recognition for Tathagata Chakraborti (Ph.D. 2018).
- **IEEE AI 10 to Watch** (2024) recognition for Sarath Sreedharan (Ph.D. 2022).
- **ICAPS 2026 Outstanding Dissertation Award for Karthik Valmeekam.**
- **Dean's Dissertation Award** (2026) recognition for Karthik Valmeekam
- **Dean's Dissertation Award** (2025) recognition for Lin Guan
- IBM PhD Fellowship for Karthik Valmeekam (2024-2025). (Ph.D. 2024).
- **Dean's Dissertation Award** (2024) recognition for Zahra Zahedi (Ph.D. 2023).
- **ICAPS Distinguished Dissertation. Runner-up** (2023) for Sarath Sreedharan (Ph.D. 2022).
- **Dean's Dissertation Award** (2022) recognition for Sarath Sreedharan (Ph.D. 2022).
- **ICAPS Distinguished Dissertation. Runner-up,** for Anagha Kulkarni. 20222.
- HRI Pioneer recognition for Zahra Zahedi. 2024.
- Best paper award at Bridging Planing & Reinforcement Learning workshop at ICAPS 2022 (with students Lin Guan and Sarath Sreedharan).
- ASU CIDSE Outstanding M.S. Student Award to Niharika Jain. 2021.
- People's Choice Award for the Best Demonstration, Intl. Conf. on Planning and Scheduling, 2020 (For Sarath Sreedharan and IBM co-authors).
- Outstanding PC Member (1 of 12) for AAAI 2020 for Sarath Sreedharan. 2020.
- **ICAPS Distinguished Dissertation, Runner-up,** for Tathagata Chakraborti. 2019.
- ASU CIDSE Outstanding Ph.D. Student Award to Tathagata Chakraborti. 2019.

- IBM Ph.D. Fellowship for Sailik Sengupta. 2018-19.
- IBM Ph.D. Fellowship for Tathagata Chakraborty. 2017-18.
- ASU CIDSE Outstanding Masters Student Award to Sarath Sridharan. 2017.
- Students reached Microsoft Imagine Cup National Finals with an entry on human-robot teaming. 2017.
- Nominted 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 are available online at *http://rakaposhi.eas.asu.edu/papers.html*. According to Google Scholar (http://scholar.google.com/citations?user=yl3L07sAAAAJ),these papers have received over **25,198** citations to date, with an **h-index** of **75**, and **i-10 index** of **318**.

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

Journal articles:

(1) Karthik Valmeekam, Vardhan Palod, Kaya Stechly, Atharva Gundawar, Subbarao Kambhampati. Beyond Semantics: The Unreasonable Effectiveness of Reasonless Intermediate Tokens. Transactions of Machine Learning Research (TMLR). April 2026. (J2C Certification; also presented at NeurIPS 2026).

(2) Subbarao Kambhampati, Kaya Stechly and Karthik Valmeekam. (How) Do Reasoning Models Reason? The Annals of New York Academy of Sciences. April 2025.

(3) Karthik Valmeekam, Kaya Stechly and Subbarao Kambhampati. A Systematic Evaluation of the Planning and Scheduling Abilities of the Reasoning Model o1 Transactions on Machine Learning Research (TMLR). April 2025.

(4) Siddhant Bhambri, Mudit Verma and Subbarao Kambhampati. Do Think Tags Really Help LLMs Plan? A Critical Evaluation of ReAct-Style Promptinga> Transactions on Machine Learning Research (TMLR). June 2025. (Accepted).

(5) Subbarao Kambhampati. Can Large Language Models Reason and Plan?. The Annals of New York Academy of Sciences. March 2024.

(6) Sarath Sreedharan, Siddharth Srivastava and Subbarao Kambhampati. Explain It As Simple as Possible, but No Simpler â Explanation via Model Simplification for Addressing Inferential Gap. Artificial Intelligence. 2024.

(7) Zahra Zahedi, Sailik Sengupta and Subbarao Kambhampati. A Game-Theoretic Model of Trust in Human Robot Teaming: Guiding Human Observation Strategy for Monitoring Robot Behavior. IEEE Transactions on Human-Machine Systems. 2024.

(8) Sarath Sreedharan, Tathagata Chakraborty, Christian Muise and Subbarao Kambhampati. Planning with mental modelsâBalancing explanations and explicability. Artificial Intelligence. 2024.

(9) Kebing Jin, Hankz Hankui Zhuo, Zhanhao Xiao, Hai Wan and Subbarao Kambhampati. Gradient-Based Mixed Planning with Symbolic and Numeric Action Parameters Artificial Intelligence. 2022. (DOI).

(10) Niharika Jain, Alberto Olmo, Sailik Sengupta, Lydia Manikonda, Subbarao Kambhampati. Imperfect ImaGANation: Implications of GANs Exacerbating Biases on Facial Data Augmentation and Snapchat Face Lenses Artificial Intelligence Journal. 2022. (Accepted 12/21)

(11) Sarath Sreedharan*, Tathagata Chakraborti*, Subbarao Kambhampati Foundations of Explanations as Model Reconciliation Artificial Intelligence Journal. 2021.

(12) Sarath Sreedharan, Siddharth Srivastava, Subbarao Kambhampati. Using State Abstractions to Compute Personalized Contrastive Explanations for AI Agent Behavior. Artificial Intelligence Journal. 2021.

(13) Subbarao Kambhampati. Challenges of Human-Aware AI Systems AI Magazine, Vol. 41 No. 3, Fall 2020.

(14) Sachin Grover, Sailik Sengupta, Tathagata Chakraborti, Aditya Prasad Mishra and Subbarao Kambhampati. RADAR: Automated Task Planning for Proactive Decision Support. HCI Journal (Special Issue on Unifying Human Computer Interaction and Artificial Intelligence), 2020

(15) Sailik Sengupta*, Ankur Chowdhary*, Abdulhakim Sabur, Dijiang Huang, Adel Alshamrani, Subbarao Kambhampati. A Survey of Moving Target Defenses for Network Security IEEE Communications Surveys and Tutorials, March 2020

(16) Hankz Hankui Zhao, Yantian Zha, Subbarao Kambhampati, Xin Tian. Discovering Underlying Plans Based on Shallow Models. ACM TIST, 2019.

(17) Kartik Talamadupula, Grdon 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.

(18) Tuan Nguyen, Subbarao Kambhampati and Sarath Sreedharan. Robust planning with incomplete domain models. **Artificial Intelligence**. 2017.

(19) Hankz Hankui Zhuo and Subbarao Kambhampati. Model-Lite Planning: Case-Based vs. Model-Based Approaches. **Artificial Intelligence** 2017.

(20) Lydia Manikonda, Tathagata Chakraborty, Kartik Talamadupula & Subbarao Kambhampati. Herding the Crowd: Using Automated Planning for Better Crowdsourced Planning. Human Computation Journal. 2017

(21) Sushovan De, Yuheng Hu, Venkata Vamsikrishna Meduri, Yi Chen, Subbarao Kambhampati: BayesWipe: A Scalable Probabilistic Framework for Improving Data Quality. J. Data and Information Quality 8(1): 5:1-5:30 (2016)

(22) Raju Balakrishnan and Subbarao Kambhampati Click Efficiency: A Unified Optimal Ranking for Online Ads and Documents. Journal of Intelligent Information Systems. 2015.

(23) 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)

(24) 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.

(25) 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)

(26) Tuan Nguyen, Minh Do, Alfonso Gerevini, Ivan Serina, Biplav Srivastava and Subbara Kambhampati. Planning with partial preference models Artificial Intelligence. Vol

190. Pages 1-31. Oct 2012.

(27) 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)

(28) Xiaoqin Zhan,g 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.

(29) 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.

(30) 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.**

(31) 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.)

(32) J. Benton, Minh Do and Subbarao Kambhampati. Anytime Heuristic Search for Partial Satisfaction Planning **Artificial Intelligence Journal.** 173(5-6): 562-592 (2009)

(33) 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.

(34) Daniel Bryce, Subbarao Kambhampati and David E. Smith. Sequential Monte Carlo in Reachability Heuristics for Probabilistic Planning **Artificial Intelligence Journal.** Vol. 172. 2008.

(35) 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.

(36) 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.

(37) 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.

(38) 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.

(39) Terry Zimmerman and Subbarao Kambhampati. Using memory to transform search on the planning graph **Journal of Artificial Intelligence Research**. 2005.

(40) Jianchun Fan and Subbarao Kambhampati. A Snapshot of Public Web Services SIGMOD Record, March 2005.

(41) Thomas Hernandez and Subbarao Kambhampati. Integration of Bioinfomratic Sources: Current Approaches and Systems. SIGMOD Record, Vol 33, No 3 September 2004.

(42) 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.

(43) Minh B. Do and Subbarao Kambhampati. Sapa: A Multi-Objective Metric Temporal Planner. **Journal of AI Research**, Volume 20, pages 155-194. December 2003.

(44) Sanchez, R. and Kambhampati, S. (2003) "AltAltp: Online Parallelization of Plans with Heuristic State Search." **Journal of AI Research**, Volume 19, pages 631-657.

(45) Terry Zimmerman and Subbarao Kambhampati. Learning-assisted automated planning: Looking back, taking stock, going forward. **AI Magazine.** 24(2):73-96. Summer 2003

(46) 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)

(47) 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)

(48) 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)**

(49) 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)

(50) 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.

(51) B. Srivastava and S. Kambhampati. Synthesizing customized planners from specifications. **Journal of Artificial Intelligence Research**. Vol 8. pp 93-128. 1998. 1998.

(52) S. Kambhampati. Refinement planning as a unifying framework for plan synthesis. **AI Magazine**. 18(2):67-97. Summer. 1997.

(53) L. Ihrig and S. Kambhampati. Storing and Indexing Plan Derivations through Explanation-based Analysis of Retrieval Failures. **Journal of Aritificial Intelligence**. Vol 7. pp 161-198. 1997.

(54) 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.

(55) 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.

(56) 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.

(57) 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.

(58) S. Kambhampati, ''Multi-Contributor Causal Structures for Planning: A Formalization and Evaluation,'' **Artificial Intelligence** Vol. 69, No. 1-2, pp. 235-278. 1994.

(59) 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.

(60) S. Kambhampati, ''Exploiting Causal Structure to Control Retrieval and Refitting during Plan Reuse,'' **Computational Intelligence**, Vol. 10, No. 2, May 1994, pp 212-244.

(61) 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.**

(62) 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.

(63) 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:

(64) Subabrao Kambhampati. Changing the nature of AI research Communications of the ACM, September 2022. Vol. 65 No. 9. Pages 8-9

(65) Subbarao Kambhampati. Polanyi's Revenge & AI's new romance with tacit knowledge. Communications of the ACM (CACM), February 2021, Vol. 64 No. 2, Pages 31-32.

(66) Subbarao Kambhampati, Craig A. Knoblock: Guest Editors' Introduction: Information Integration on the Web. IEEE Intelligent Systems 18(5): 14-15 (2003)

(67) 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.

(68) S. Kambhampati and C. Knoblock. Information Integration on the Web: A view from AI and Databases (Report on IIWeb-03). SIGMOD Record. December 2003.

(69) 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.

(70) S. Kambhampati. ''Theoretical Contributions of Artificial Intelligence.'' Side bar. IEEE Computer Magazine. 50th anniversary issue. Fall 1996.

(71) S. Kambhampati. ''Refinement planning: Status and Prospectus'' *In Proc. National Conference on AI*, 1996. (Invited)

(72) S. Kambhampati. ''AI Planning: A prospectus on theory and applications'' Position Statement. **ACM Computing Survyes**, Symposium on Artificial Intelligence, September 1995.

(73) 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.

(74) 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.

(75) 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 (Books, Edited Proceedings, Book chapters):

(76) Sarath Sreedharan, Anagha Kulkarni and Subbarao Kambhampati. Explainable Human-AI Interaction: A Planning Perspective. Morgan & Claypool. January 2022. ISBN: 978-1-63639-289-9.

(77) Subbarao Kambhampati (ed). Proceedings of the 25th International Joint Conference on Artificial Intelligence, 2016. (IJCAI 2016)

(78) 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.

(79) Subbarao Kambhampati and Sungwook Yoon. Explanation-Based Learning for Planning. Encyclopedia of Machine Learning. Springer-Verlag, New York, NY (Claude Sammut, ed.)

(80) M. Veloso and S. Kambhampati (eds). Proceedings of National Conference on Artificial Intelligence, 2005. (AAAI 2005).

(81) S. Kambhampati and C. Knoblock. (eds). Proceedings of IJCAI 2003 Workshop on Intelligent Information Integration. 2003.

(82) S. Kambhampati, C. Knoblock and S. Chien. (eds) Proceedings of AIPS 2002 (International Conference on AI Planning Systems). 2000.

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(87) Vishak K Bhat, Prateek Chanda, Vijval Ekbote, Ashmit Khandelwal, Maitreyi Swaroop, Vineeth N. Balasubramanian, Subbarao Kambhampati, Nagarajan Natarajan, Amit Sharma. interwhen: A Generalizable Framework for Verifiable Reasoning with Test-time Monitors. NeurIPS 2026.

(88) Subbarao Kambhampati, Karthik Valmeekam, Siddhant Bhambri, Vardhan Palod, Lucas Saldyt, Kaya Stechly, Soumya Rani Samineni, Durgesh Kalwar, Upasana Biswas. Position: Stop Anthropomorphizing Intermediate Toakens as Reasoning/Thinking Traces! ICML 2026. (Covered in Decoder, Nature, VentureBeat, and Tech Talks)

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(339) 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.

(340) Kartik Talamadupula & Subbarao Kambhampati. Easychair as a Pedagogical Tool Engaging Graduate Students in the Reviewing Process. EAAI 2014 (AAAI).

(341) A Formal Analysis of Required Cooperation in Multi-agent Planning Yu Zhang & Subbarao Kambhampati ICAPS Workshop on Distributed Multi-Agent Planning (DMAP), 2014.

(342) Srijith Ravikumar, Kartik Talamadupula, Raju Balakrishnan Subbarao Kambhampati. RAProp: Ranking Tweets by Exploiting the Tweet/User/Web Ecosystem and Inter-Tweet Agreement AAAI 2013 (Late-breaking paper)

(343) 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

(344) 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

(345) Srijith Ravikumar, Raju Balakrishnan and Subbarao Kambhampati. Ranking Tweets Considering Trust and Relevance. SIGMOD Workshop on Information Integration on the Web (IIWeb), 2012.

(346) 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

(347) 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.

(348) 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.

(349) 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.

(350) 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.

(351) 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.

(352) 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

(353) 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.

(354) 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.

(355) Hierarchical Strategy Learning with Hybrid Representations Sungwook Yoon and Subbarao Kambhampati AAAI 2007 Workshop on Acquiring Planning Knowledge via Demonstration. 2007.

(356) 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.

(357) 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.

(358) 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.

(359) QPIAD: Query processing over Incomplete Autonomous Databases Hemal Khatri, Jianchun Fan, Yi Chen & Subbarao Kambhampati. ICDE 2007 (poster).

(360) Thomas Hernandez and Subbarao Kambhampati. Improving Text Collection Selection with Coverage and Overlap Statistics. Proc. of Word Wide Web Conference, 2005. (poster paper).

(361) Providing ranked relevant results for Web database queries. Ullas Nambiar and Subbarao Kambhampati. Proc. of Word Wide Web Conference, 2004. (poster paper).

(362) 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.

(363) Planning-Scheduling Connections through Exogenous Events. Minh B. Do, Subbarao Kambhampati and Terry Zimmerman. ICAPS 2004 Workshop on Integrating Planning into Scheduling.

(364) 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.

(365) Romeo Sanchez Nigenda, Subbarao Kambhampati. Parallelizing State Space Plans Online. IJCAI 2003. Poster.

(366) Terry Zimmerman, Subbarao Kambhampati. Using available memory to transform Graphplan's search. IJCAI 2003. Poster.

(367) Zaiqing Nie, Subbarao Kambhampati. Frequency-based Coverage Statistics Mining for Data Integration. IJCAI Workshop on Information Integration on the Web. 2003.

(368) Ullas Nambiar and Subbarao Kambhampati. Answering Imprecise Database Queries. ACM WIDM 2003 (Workshop on Web Information and Data Management).

(369) 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.

(370) Dan Bryce and Subbarao Kambhampati. Heuristic guidance measures for Conformant Planning. ICAPS workshop on Planning under uncertainty and incomplete information. 2003

(371) S. Kambhampati, Senthil, G. Source-call ordering techniques for information gathering. IJCAI Workshop on Intelligent Information Integration. 1999.

(372) E. Lambrecht and S. Kambhampati. Minimizing recursive information gathering plans. *In Proc. AAAI Workshop on Integrating Information Sources*. 1998.

(373) 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.

(374) E. Parker and S. Kambhampati. Making Graphplan goal-directed. Working notes of AIPS-98 workshop on Planning as combinatorial search. 1998.

(375) A. Mali and S. Kambhampati. Refinement Planning as Satisfiability. Working notes of AIPS-98 workshop on Planning as combinatorial search. 1998.

(376) A. Mali and S. Kambhampati. Frugal propositional encodings for planning. Working notes of AIPS-98 workshop on Planning as combinatorial search. 1998.

(377) 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.

(378) 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.

(379) 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.

(380) S. Kambhampati et. al. ''Integrated approaches to improving the effectiveness of plan reuse,'' Proceedings of ARPA Planning Initiative workshop, Tucson, February 1994.

(381) J. Hendler et. al. ''Massively parallel support for casebased planning,'' Proceedings of ARPA Planning Initiative workshop, Tucson, February 1994.

(382) 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

(383) S. Kambhampati, ''Utility Tradeoffs in Incremental Plan Modification,'' *AAAI Spring Symposium on Computational Considerations in supporting incremental modification and reuse," Stanford, CA, March 1992.*

(384) 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.

(385) 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.

(386) 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.

(387) 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.

(388) 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.

(389) 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.

(390) 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.

(391) S. Kambhampati, "Representational Requirements for Plan Reuse," *Proceedings of the 2nd DARPA Workshop on Case-Based Reasoning,* Pensacola Beach, FL, May 1989.

(392) 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.

Theses:

(393) S. Kambhampati, "Flexible Reuse and Modification in Hierarchical Planning: A Validation Structure Based Approach," **Ph.D. Thesis**, University of Maryland, College Park, MD, 1989.

(394) S.Kambhampati, "Multi Resolution Path Planning for Mobile Robots,", **M.S. Thesis**, University of Maryland, College Park, MD, 1985.

(395) S. Kambhampati, "Some Experiments on Isolated Word Speech Recognition for Confusable Vocabulary," **B.TECH. Project Report**, Indian Institute of Technology, Madras, India, 1983.

View Points, Op-eds, Public Outreach Pieces on AI

• Can LLMs Really Reason and Plan? Communications of ACM Magazine (Blog). (View Point). Sep 2023.

• AI as (an Ersatz) Natural Science?. Communications of the ACM (Blog). (Viewpoint) June 2022.

• Broad and Shallow AI: The Promise and Perils of Competence without Comprehension. The India Forum. Jan 2022. (Column)

• Language Imitation Games and the Arrival of Broad and Shallow AI Communications of the ACM Blog. October 2021. (Made it to the top-5 articles list at #1).

• Beauty, lies & ChatGPT: Welcome to the post-truth world. The Hill. Feb 2023 (Opinion Column).

• Will Artificial Intel get along with us? Only if we design it that way. The Hill. Feb 2021. (Opinion Column)

• Our Deepfake Future. Virginia Quarterly Review. Spring 2020. (Interview in comic form!).

• Why are Artificial Intelligence systems biased?. The Hill. July 2020. (Opinion Column)

• AI computing will enter the 'land of humans' in the 2020s: The promise and the peril. The Hill. January 2020. (Opinion Column)

• Perception won't be reality, once AI can manipulate what we see. The Hill. November 2019. (Opinion Column)

• What just happened? The rise of interest in Artificial Intelligence. The Hill. August 2019. (Opinion Column)

Invited Presentations (not including the conference presentations):

• **Challenges of Human-Aware AI Systems. AAAI 2018 Presidential Address. New Orleans. February, 2018**

• Can LLMs Reason and Plan? Keynote at 21st Intl. Conf. on Knowledge Representation & Reasoning. Hanoi, Vietnam. November 2024.

• Can LLMs Reason and Plan? Keynote at 62nd Conf. on Association for Computational Linguistics (ACL). Bankgkok. August 2024.

• On the Role of Verifiers and Thinking Traces in Reasoning Models. Keynote at ICML 2026 LLMs for Planning (LM4Plan) Workshop. July 2026.(Keynote@ICML2026 LM4Plan Wkshp)

• (How) Do LLMs Plan/Reason? Keynote at Scandinavian Conference on Artificial Intelligence. June 2026.

• (How) Do LLMs Plan? Invited talk at NASA AMES Research Center. May 2026.

• Practical Agency in Classical AI & LLM Era (Panel Remarks). Conference on Ethics and Agentic AI. Stanford McCoy Center on Ethics. May 2026.

• On the Mythos of LRM "Thinking Tokens". Keynote at Samsung AI Summit. Mountain View. April 2026.

• On the Mythos of LRM "Thinking Tokens". Keynote at UT Dallas AI Day. April 2026.

• Humans & LLMs: Two Great Systems Separated by a Common Language (What does Explainable AI mean in the era of LLMs?). Keynote at ICLR 2026 Workshop on Unifying Concept Representation Learning. March 2026.

• On the Centrality of Verifiers (Simulators/World Models) In the Quest for Robust LLM Reasoning/Planning. Invited speaker at the Foundation of Artificial Intelligence Seminar. Georgia Tech. Atlanta. March 2026.

• Role of LLMs in Human-AI Interaction. Keynote at IEEE CogSIMA Conferences. March 2026.

• Invited panelist at Research Dialog on "The Next Frontiers -- Grand Challenges in AI Research". Flagship Event at AI Impact Summit. Delhi. India. Feb 2026.

• Planning and Reasoning Abilities of LLMs/LRMs. (Two Lectures). Invited Lecturer at Melbourne Machine Learning Summer School. Feb 2026.

• Anthropomorphization Sins in Modern AI (or Perlis of Prematurely Applying Lens of Cognition to LLMs). IVADO Workshop on Cognitive Basis of Reasoning (in Minds and AI). Invited Talk. Feb 2026.

• On the Mythos of LRM "Thinking Tokens." Invited talk at IndoML (India's Machine Learning Symposium). Hyderabad. December 2025.

• On the Mythos of LRM "Thinking Tokens." Talk at Micrsoft Research India. Bangalore. December 2025.

• On the Mythos of LRM "Thinking Tokens." Talk at Yardi School of Artificial Intelligence, IIT Delhi. December 2025.

• (How) Do LLMs Reason. Keynote at PReMI 2025 Conference. IIT Delhi. December 2025.

• Do the "Thinking Traces" of LRMs really offer an interpretable window into their thinking? Keynote at NeurIPS 2025 MAR Workshop. San Diego. Dec 2025.

• The State of AI Research. Invited Keynote given at University Autonoma Nueva Leon, Monterrey, Mexico. Sep 2025.

• (How) Do LLMs Reason. Colloquium at Harvey Mudd College. Pamona, CA. Sep 2025.

• (How) Do LLMs Reason/Plan? Oracle Distinguished Lecture. April 2025.

• (How) Do LLMs Reason/Plan? Invited Talk @ Microsoft Research. April 2025.

• Style vs. Correctness Considerations in Using LLMs/VLMs/LRMs for Task Planning. Invited Keynote at ICRA 2025 Workshop on Safely Leveraging Vision-Language Foundations Models in Robotics: Challenges and Opportunities. May 2025.

• From System 1 LLMs to System 1+2 LRMs? The Quest to Tease Planning and Reasoning out of LLMs. TrAC Distinguished Lecture. Iowa State University. March 2025.

• From System 1 LLMs to System 1+2 LRMs? The Quest to Tease Planning and Reasoning out of LLMs. Distinguished Lecture. Dept of Computer Science and Engg. Texas A&M University. March 2025.

• Can LLMs Reason and Plan? Invited Colloquium at Notre Dame. October 2024.

• LLM-Modulo Frameworks as Compound AI Architectures for Robust Planning (and Reasoning). Keynote @ 3rd Neuro-Symbolic AI Summer School. August 2024.

• Can LLMs Reason and Plan? Invited Speaker. UPenn CLUNCH Computational Linguistics Seminar. September 2024.

• Panelist for IBM Panel on AI Reasoning. September 2024.

• On the Role of Large Language Models in Planning. Tutorial (2hrs) delivered to ˜1000 attendees. ICML 2024. Vienna. July 2024.

• LLMâs are System 1âs for Humanity(..and that ought to be enough..). Keynote @ ICML 2024 Workshop on LLMs & Cognition. Vienna. July 2024. (Also was a panelist).

• Panelist, ICML 2024 workshop on Theoretical Foundations of Foundation Models. Vienna. July 2024.

• Can LLMs Reason and Plan? Ellis Robust LLMs Workshop (Invited Talk). Oxford University. July 2024.

• Can LLMs Reason and Plan? ESSAI/ACAI Summer School (Invited Keynote). July 2024.

• Can LLMs Reason and Plan? IBM Research Distinguished Lecture. Yorktown Heights. June 2024.

• Can LLMs Reason and Plan? Talk at Apple NLU Workshop. Cupertino. June 2024.

• Can LLMs Reason and Plan? Keynote at 4th Tailor Conf on Trustworthy AI from Lab to Market. Lisbon, Portugal. June 2024.

• LLMs Can't Plan, But Can Help Planning in LLM-Modulo Frameworks. Invited talk at ICRA 2024 Workshop on Vision-Language Models for Navigation and Manipulation (VLMNM). May 2024.

• Demystifying LLMs. Webinar for PanIIT Frontiers of AI Forum. May 2024.

• AI, Law and The Courts. Primer on AI for Maricopa County Superior Court. May 2024.

• Can LLMs Reason and Plan? Google/DeepMind LLMs & Reasoning Seminarl. April 2024.

• Can LLMs Reason and Plan? Distinguished Lecture at Megagon Labs. April 2024.

• Can LLMs Reason and Plan? Invited Talk at Qualcomm Research. March 2024.

• Primer on AI for AZ Supreme Court's Steering Committee on AI. Arizona Courts Complex. March 2024.

• Implications of LLMs. AAAI 2024 Plenary Panel. Vancouver. Feb 2024.

• On the role of large language models in Planning. AAAI 2024 half-day Tutorial. Feb 2024.

• Can LLMs Really Reason and Plan? Keynote at SCAI AI Day. Dec 2023. Seminar at IIT Kharagpur Center of Excellence in AI.

• AI, Law and The Courts. Keynote at Arizona Summit on AI, Law and The Courts. December 2023.

• Can LLMs Really Reason and Plan? Keynote at JP Morgan AI Summit. Nov 2023.

• Can LLMs Really Reason and Plan? Keynote at SCAI AI Day. Nov 2023.

• Leveraging Mental Models for Cooperation & Competition in Human-AI Teams. Keynote @ AAAI 2023 Fall Symposium on Agent Teaming in Mixed Motive Situations. October 2023.

• AI for Scientific Discovery. Briefing and Panel Remarks at National Academies workshop on AI for Scientific Discovery. October 2023.

• Avenging Polanyi's Revenge (Exploiting the Approximate Omniscience of LLMs in Planning..). Invited Symposium talk at Naval Research Labs' Naval Center for Applied Reearch in Artificial Intelligence. Sep 2023.

• Generative #AI Revolution: What Happens to our Reality When AI Can Spin Many Synthetic Realities? Invited keynote at the Triservices AI Workshop at INS Valsura. Aug 2023.

• Avenging Polanyi's Revenge (Exploiting the Approximate Omniscience of LLMs in Planning..). Invited keynote at KDD 2023 Finance Day. Aug 2023.

• Avenging Polanyi's Revenge (Exploiting the Approximate Omniscience of LLMs in Planning..). Invited keynote at ICML 2023 workshop on Knowledge, Logic and Reasoning in the era of Data Driven Learning. July 2023.

• On the role of large language models in Planning. ICAPS 2023 half-day Tutorial. July 2023.

• LLMs can't plan (but they can help you in planning). Invited Keynote at ICAPS 2023 workshop on AI in Finance. July 2023.

• Symbols as a Lingua Franca for Supporting Human-AI Interaction For Explainable and Advisable AI Systems. Keynote talk. 21st Intl. Conf. of Italian Association of Artificial Intelligence. Nov 2022.

• Symbolic Mental Models as Lingua Franca for Supporting Explainable and Advisable Human-AI Teaming. Keynote talk. IROS 2022 Workshop on Theory of Mind for Human-Agent Teams. Nov 2022.

• Generative #AI Revolution: What Happens to our Reality When AI Can Spin Many Synthetic Realities?. Public Lecture. Manthan India (Hyderabad). March 2023.

• Beyond Nodding & Pointing: Widening Explainable and Advisable Human-AI Interaction. Keynote Lecture at the Kohli Day. IIIT-Hyderabad. March 2023. (Also given at Neuro Science Dept, Indian Institute of Science, Bangalore, and Google Research India).

• Beauty, Lies & ChatGPT (On the Promise, Perils & Limits of the Generative AI Revolution). Inaugural SCAI Faculty Colloquium. SCAI. ASU. April 2023.

• Symbols as a Lingua Franca for Bridging Human-AI Chasm For Explainable and Advisable AI Systems. Colloquium at IIT Madras (in conjunction with their Distinguished Alumnus Award). September 2022.

• Planning to Advise and Explain Reinforcement Learning. Invited talk. ICAPS 2022 Workshop on Bridging Planning and RL. June 2022.

• Tamig Inscrutable AI Systems with Explicit Knowledge and a Symbolic Lingua Franca. Intel Workshop on Vectors of Cognitive AI. May 2022.

• Getting AI Agents to Interact and Collaborate with us on our terms. Strachey Lecture. Oxford. March 2021.

• Human-Aware AI. Invited Talk. AI/Machine Learning Working Group. Institute for research in sensing. 2022.

• Getting AI Agents to Interact and Collaborate with us on our terms. AI in Automation Lecture Series. IBM Research. May 2021.

• Getting AI Agents to Interact and Collaborate with us on our terms. Keynote Address. PAKDD 2021. May 2021.

• Taming Broad/Shallow AI wit Explicit Knowledge & Bridging Human-AI Chasm with Symbolic Lingua Franca. Keynote at CIKM 2021 Workshop on Knowledge Injection in Neural Networks. November 2021.

• Rise of AI and the Challenges of Human-Aware AI Systems. Talk at IIT Madras Forum Director's Circle Event. October 2021.

• Explainable Plans and Decisions. CRA/Informs/ACM SIGAI workshop on AI & OR. Invited presentation. September 2021.

• Blind Men and an Explanation: Towards a Unifying Perspective on Explainable AI. Invited talk at Explainable AI Conference. Robert Bosch Center on Data Science & AI. IIT Madras. June 2021.

• AI & Ethics. Presentation at TTI/Vanguard Forum on Future of AI. June 2021.

• Conversation on Societal Impacts of AI. Jawaharlal Nehru Center for the Study of Law and Governance. New Delhi. April 2021.

• AI & The courts. Remarks at the National Academies Workshop on Emerging Areas of Science, Engineering and Medicine for the Courts. Feb 2021.

• Helping our Robot Overlords Help Us. Invited talk at AAAI 2021 Plan, Activity and Intent Recognition Workshop. Feb 2021.

• Synthesizing Explainable Behavior for Human-AI Collaboration. Invited Keynote at IEEE Cognitive Machine Intelligence Conferences, December 2020.

• Synthesizing Explainable Behavior for Human-AI Collaboration. Invited Keynote at Samsung AI Forum. November 2020.

• Polanyi vs. Planning (Planning around AI's New Romance with Tacit Knowledge). Invited talk at ICAPS DC, 2020.

• Defending our Realitity in the era of Deep Fakes. Talk at Big Data & AI, Toronto. 2020.

• Has the terminator arrived? AI becomes smarter than humans? India Science Festival. Pune, India. January 2020. (Public lecture)

• Synthesizing Explainable Behavior for Human-AI Collaboration. Invited Keynote at Taiwan Association of AI (TAAI) Conference. Kaohsiung. November 2019.

• Synthesizing Explainable Behavior for Human-AI Collaboration. Invited keynote talk at AAMAS 2019. Montreal. May 2019.

• Rise of AI and Challenges of Human-Aware AI Systems. Presidential Distinguished Lecture. Singapore Management University. April 2019.

• Synthesizing Explainable Behavior for Human-AI Collaboration. Invited Keynote talk at Symposium on Combinatorial Search. SOCS 2019. Napa, CA. July 2019.

• Challenges of Human-Aware AI Systems. Invited Keynote talk at The ACM India Joint Intl. Conf. on Data Science & Management of Data (CODS-COMAD). Kolkata, India. January 2019.

• Explainable Planning for Human-Robot Collaboration. Invited Talk at ICAPS Workshop on Planning and Robotics (PlanRob). Berkeley, CA. July 2019.

• Hopes and Fears In a World with Artificial Intelligence. Public Lecture. Manthan India. Hyderabad. July 2019.

• Rise of AI and Challenges of Human-Aware AI Systems. Distinguished Lecture at Purdue Integrative Data Science Initiative. Purdue University. April 2019.

• Challenges of Human-Aware AI Systens. Jonsson School Distinguished Lecture, University of Texas, Dallas. February 2018.

• AI: Current and Emerging Capabilities and Research. National Academies of Science, Engineering and Medicine. March 2018.

• Rise of AI: Status, Thresholds, Impacts. Invited Presentation at AAAS 2019. Washington D.C.

• Rise of AI: Status, Thresholds, Attack Surfaces. Keynote at FCC Forum on AI & ML. November 2018.

• Challenges of Human-Aware AI Systems. AI Lecture Series. Computer Science Department. Utah University. November 2018.

• The Rise of AI: Status, Thresholds, Attack Surfaces. XIV Seminario Internacional Inteligencial Artificial. Foundacion Copec-UC. Santiago, Chile. November 2018.

• Rise of AI: Status, Challenges, Impacts. ICAPS/CPAIOR 2018 Plenary Public Lecture, TU Delft. June 2018.

• Rise of AI: Status, Prospects and Thresholds. IEEE Aerospace Conference. Big Sky, Montana. Plenary. March 7, 2018.

• Rise of AI: Status, Prospects & Thresholds. Marterials Research Society Spring Meeting. Phoenix. April 4, 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. Shenzen. 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 Committe. 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 Reseach 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, Marth 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) **Siddhant Bhambri**. Ph.D. 2025. Worked on the role of LLMs in Human-AI Interaction. Research Scientist at Samsung AI.

(2) **Karthik Valmeekam.** Ph.D. 2025. Worked on the Planning/Reasoning Abilities of LLMs. Research Scientist at Amazon AGI.

(3) **Lin Guan.** Ph.D. 2024. Worked on sample efficient frameworks for Reinforcement Learning with Human Feedback. Research Scientist at Meta GenAI.

(4) **Mudit Verma.** Ph.D. 2024. Worked on incorporating sample-efficient active and passive human feedback in Reinforcement learning. Research Scientist at Google AI Gemini Group.

(5) **Utkarsh Soni.** Ph.D. 2024. Worked on Explainable Human-AI Interaction in Sequential Decision Making. Data Scientist at ManuLife.

(6) **Zahra Zahedi.** Ph.D. 2023. Worked on trust in human-AI interaction.

(7) **Alberto Olmo Hernandez.** Ph.D. 2022. Worked on investigating failure modes of large learned models. ML Ops Engineer at Vianai.

(8) **Sriram Gopalakrishnan.** Ph.D. 2022. Worked on incorporating human limitations into plans suggested for them. AI Research Scientist at JP Morgan AI Research.

(9) **Sachin Grover**. Ph.D. 2022. Worked on active learning of human mental models. Research Scientist at PARC.

(10) **Sarath Sreedharan**. Ph.D. 2022. Worked on explainable human-AI interaction. Faculty member at Colorado State University.

(11) **Yantian Zha**. Ph.D. 2022. Worked on combining vision and high-level planning. Postdoc at Maryland Robotics. University of Maryland.

(12) **Anagha Kulkarni**, Ph.D. 2021. Worked on Human-Aware AI systems. Research Scientist at Invitae.

(13) **Sailik Sengupta**, Ph.D. 2020. Worked on AI and Cyber Security. Research Scientist at Amazon AI.

(14) **Lydia Manikonda**, Ph.D. 2019. Worked on analysis and decision-making with social media. Faculty member at Rensselaer Polytechnic Institute.

(15) **Tathagata Chakraborti**, Ph.D. 2018. Worked on foundations of human-aware planning. Currently at IBM AI Research. *ICAPS Distinguished Dissertation Awar (Runner-Up). 2019. ASU CIDSE Outstanding Ph.D. Student. 2019. IEEE AI 10 to Watch. 2020*

(16) **Yuheng Hu**, Ph.D. 2014. Worked on event analytics for social media. Currently on the faculty at University of Illinois, Chicago.

(17) **Kartik Talamadupula**, Ph.D. 2014. Worked on planning for human-robot teaming. Currently Research Staff Member at IBM Watson Labs.

(18) **Tuan Nguyen**, Ph.D. 2014. Worked on planning with partial preferences and domain models. Currently at Mathworks.

(19) **Sushovan De**, Ph.D. 2014. Worked on Data Rectification for Big Data. Currently at Google.

(20) **William Cushing**, Ph.D. 2012. Worked on the foundations of temporal planning. Currently a post-doctoral fellow at UC Berkeley (with Prof. Stuart Russell).

(21) **J. Benton**, Ph.D. 2012. Worked on partial satisfaction planning. Currently a research scientist at SIFT LLC.

(22) **Raju Balakrishnan**, Ph.D. 2012. Worked on deep web source selection. Currently at Groupon.

(23) **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).

(24) **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 Sceince Department).

(25) **Ullas Nambiar**, Ph.D. 2005. Worked on supporting imprecise queries over autonomous databases. Currently research scientist at IBM India Research Labs.

(26) **Romeo Sanchez**, Ph.D. 2005. Worked on reachability heuristics for planning. Currently research scientist at USC/Information Sciences Institute.

(27) **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).

(28) **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.

(29) **Terry Zimmerman**, Ph.D. 2003. Dissertation on Effective use of memory in Graphplan. Currently Post Doctoral Fellow at CMU Robtics Institute.

(30) **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). Faculty member at University of South Carolina.

(31) **Amol D. Mali**, Ph.D. Dissertation: ''*Hierarchical task network planning as Satisfiability*,'' Ph.D. 1999. Current position: Faculty member at University of Wisconsin, Milwaukee.

(32) **Xiaomin Li**. Ph.D. Dissertation: ''*ASUPPA: Interactive and Iterative Framework for Process Planning*'' Ph.D. 2001. Quest Communication, Denver.

(33) **Laurie Ihrig**, Ph.D. Dissertation: ''*Improving planning performance through derivational replay*.'' (1996). Boeing Corp., Phoenix.

M.S. Theses

(1) **Atharva Gundawar.** M.S. 2025. Empirical evaluation of LLM-Modulo framework. Founded Markov Robotics.

(2) **Kaya Stechly.** M.A. (Linguistics). 2025. Significant research on the planning/reasoning limitations of LLMs and LRMs. (Her official thesis was with the Linguistics department, but she spent most of her time and research with Yochan).

(3) **Karthik Valmeekam**, M.S. 2021. Worked on RADAR-X decision support system for human-in-the-loop mission planning.

(4) **Niharika Jain**, M.S. 2020. Worked on biases in GAN-based data augmentation. (**Recipient of CIDSE Outstanding M.S. Student Award, 2021; CIDSE oustanding Undergraduate, Computer Science, 2019**)

(5) **Aditya Prasad Mishra**. M.S. 2019. Worked on human-in-the-loop support for mission-planning.

(6) **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**)

(7) **Vignesh Narayanan**. M.S. 2015. Worked on human-factors analysis of automated planning for human-robot teaming. First Employment: Amazon.

(8) **Anirudh Acharya**. M.S. 2015. Worked on joint topic modeling for tweet/event alignment. First Employment: Yahoo!

(9) **Tejas Mallapura Umamaheshwar**. M.S. 2015. Worked on Hashtag Recovery for Twitter Messages. First Employment: Mathworks.

(10) **Manikandan Vijaykumar**, M.S. 2014. Worked on Hashtag Recovery for Twitter Messages. First Employment: American Express.

(11) **Preet Inder Singh Rihan**, M.S. 2013. Worked on query processing for probabilistic data. First Employment: Blomberg LP R&D.

(12) **Srijith Ravikumar**, M.S. 2013. Worked on ranking tweets. First Employment: Amazon.

(13) **Manish Jha**, M.S. 2011. Worked on topic-sensitive source rank for deep web sources. Department Outstanding Masters Student Award. 2012. First Employment: Amazon.

(14) **Rohit Raghunathan**, M.S. 2011. Worked on principled probabilistic frameworks for query processing over autonomous databases in the presence of incompleteness. First Employment: Amazon.

(15) **Chris White**, (Integrated) M.S. 2011. Worked on distributed approaches to Taxi World. First Employment: Lockheed Martin. .

(16) **Sanil Salvi**, M.CS 2009. Worked on integrating databases on the web in the absence missing primary-foreign key relations.

(17) **Ravi Gummadi**, M.S. 2009. Worked on integrating databases on the web in the absence missing primary-foreign key relations. Currently at Facebook.

(18) **Anupam Khulbe**, M.S. 2009. Worked on integrating databases on the web in the absence missing primary-foreign key relations. Currently at Amazon.

(19) **Garrett Wolf**, MCS 2008. Worked on handling incompleteness and imprecision in autonomous databases. Department Outstanding Masters Student Award. 2008.

(20) **Aravind Kalavagattu**, M.S. 2008. Worked on learning approximate functional dependencies from data. Currently at Yahoo.

(21) **Bhaumik Chokshi**, M.S. 2007. Worked on overlap-aware techniques for collection selection. Currently at MSN Search Live.

(22) **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.**.

(23) **Jianchun Fan**, M.S. 2006. Worked on multi-objective query optimization for data aggregation. Currently at Amazon.

(24) **Thomas Hernandez**, M.S. 2004. Worked on collecton selection with overlapping text collections. Currently at Amazon. **Winner of the Department Outstanding M.S. Student Award, 2005**.

(25) **Sreelakshmi Vaddi**, M.C.S. 2003. Worked on execution issues in data integration.

(26) **XuanLong Nguyen**, M.S. 2001 Thesis: ''*Heuristic Search Control for Plan Synthesis Algorithms and Dynamic Constraint Satisfaction Problems*''

(27) **Senthil Gnanaprakasam**, M.S 2001. Thesis: ''*A System-R style Join Order Optimization for Internet Information Gathering.*'' Currently at Intel, Seattle.

(28) **Eric Lambrecht**, M.S. Student. RA since Fall 1996. M.S. thesis: ''Optimizing Recursive Information Gathering Plans,'' Founded *shareyourworld.com.*, San Francisco.

(29) **Yong Qu**, M.S. Thesis: ''*Extending EBL framework to planning with expressive action representations*'' (1996). Currently at Microsoft Corp., Seattle.

(30) **Suresh Katukam**, M.S. Thesis: ''*Explanation based learning for search control rules for partial order planning*'' (1995). Currently at Hypercom, Phoenix.

(31) **Bulusu Gopi Kumar**, M.C.S. Project: ''*Systematic and complete dependency directed backtracking* (1994)

(32) **Eric Cohen**. M.C.S. Project: ''*Minimality based pruning techniques for Partial Order Planning*'' (1993)

(33) **Dennis Chen**, M.C.S. Project: ''*Comparisons beteen Opaque and Interleavable macros,*'' (1993)

(34) **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) Recepient 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.

• Chair, Section T (Infomration, Computation and Communication), American Association for the Advancement of Science (AAAS). 2022-2024.

• Trustee, Partnership for Artificial Intelligence. 2017-2018.

• Program Chair, Intl. Joint Conference on Artificial Intelligence, 2016. Trustee 2013-18.

• Program Co-Chair; National Conference on Artificial Intelligence, 2005 (Pittsburgh, PA).

• Program Co-Chair; International Conference on Planning and Scheduling, 2013 (Rome, Italy)

• High level Government service including

(1) Testimony on Impacts of Artificial Intelligence to Canadian Senate Standing Committee on Social Affairs, Science & Technology, Senate of Canada. March 2017.

(2) Panel on AI Capacity Building in India (Organized by Hon. Sushma Swaraj; External Affairs Minister of India), June 2018.

(3) Keynote at the Federal Communications Commission's forum on AI & ML. 2018

(4) Whitehouse Roosevelt Room discussion on National AI strategy (eventually lead to the National AI research priorities, with human-AI collaboration a top priority). March 2019.

(5) (Multiple briefings at the National Academies of Science and Engineering)

• Founding Steering Committee Member, AAAI/ACM Conference on AI, Ethics and Society, 2018--

• 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

• **Advisor**, Intl. Conf. on Automated Planning and Scheduling. 2021.

Co-Chair, Special track on Human-Aware Planning and Scheduling. ICAPS 2022.

• **Area Chair**, AAAI Conference on Artificial Intelligence, 2020, 2021, 2022, 2024, 2025

• **Area Chair**, NeurIPS (Benchmark track), 2023, 2024.

• **Senior Area Chair**, International Joint Conference on Artificial Intelligence, 2021,2022

• **Area Chair**, International Joint Conference on Artificial Intelligence, 2007, 2013, 2015, 2017, 2019, 2020

• **Area Chair**, Autonomous Agents and Multi-Agent Systems Conference, 2021

• **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, 2019.

•Program Committee Member, AI, Ethics & Society Conference. 2018, 2019.

• 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*). • Associtate 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 Commitee 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 Syposium 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, Assissi, 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.

Media Coverage

(Quoted/profiled/wrote in multiple outlets, including Netflix, The New York Times, Washington Post, National Public Radio, The New Yorker, The Guardian, The Atlantic, Washington Post, Wired, The Hindu, etc. Hyperlinked list available at http://rakaposhi.eas.asu.edu/media.html)

• AIâs âThoughtâ Process Can No Longer Be Trusted, Raising Risks of Rogue Models. Wall Street Journal. October 2026. (Interviewed and quoted multiple times)

• Is this how the world ends? Extinction scenarios are taking over the AI debate. Washington Post. Sep 2026. (Quoted)

• How Existential Fears Are Shaping the Debate Over AI. Bloomberg News. Sep 2026. (Interviewed and Quoted).

• Hugging Face Hack Shows Humans Can Keep AI In Check. Bloomberg News. Sep 2026. (Interviewed and Quoted).

• Critics say AI doom debate is a problematic distraction. LinkedIn News. Sep 2026. (Curates articles quoting my views)

• Is AI Reasoning Right for the Wrong Reasons?. **Quanta Magazine.** Jul 2026. (Work covered, and extensively quoted)

• Podcast: Is AI Reasoning Right for the Wrong Reasons? . Quanta Magazine Podcast. Aug 2026. (Work covered and quoted).

• Where Did All the Computer-Science Professors Go?. The Atlantic. July 2026. (Quoted)

• Teaching LLMs to Give Better Answers. Communications of ACM. Jun 2026. (Interviewed and work covered).

• Does AI Not Actually Think? Scientists Reveal the Secret Behind "Reasoning" Chains. Zamin. Jun 2026. (Work covered).

• Anthropic Fable 5 Offline. Generation AI. Channel 3. (On air interview).

• AI bots ignore evidence. Can we trust them with science?. Science News. May 2026. (Quoted/Interviewed)

• Experts warn about relying on AI for mental health evaluations . Fox 10 News (TV). April 2026. (Interviewed).

• Dissenting voices against AI are getting louder. The Economic Times (India). (Quoted). March 2026.

• Making sexually explicit AI deepfakes is easy to do â and hard to stop. Arizona Republic. March 2026. (Interviewed/Quoted)

• Stolen AI? That's the accusation American tech companies are leveling against their Chinese competitors. But the Chinese are capable of more than just copying.. NZZ (Switzerland). Feb 2026. (Interviewed/Quoted)

• AI Summit: Democratising flawed AI models could amplify risks, warns Subbarao Kambhampati. Money Control (India). Feb 2026. (Interviewed)

• AI summit: Tech CEO misses PM Modiâs gala after 4 hours in Delhi traffic, another invitee says entry email never arrived . Financial Express (India). Feb 2026. (Tweet Quoted).

• An A.I. Pioneer Warns the Tech âHerdâ Is Marching Into a Dead End. New York Times. Jan 2026. (Quoted).

• A look under the hood of DeepSeekâs AI models doesnât provide all the answers. Science News. Dec 2025. (Quoted extensively).

• AI hallucinates because itâs trained to fake answers it doesnât know. Science Magazine. October 2025. (Quoted)

• Will AI ever win its own Nboel?. Nature. October 2025. (Quoted)

• How Elon Musk Is Remaking Grok in His Image. New York Times . August 2025. (Quoted)

• NeurIPS faces a surge in submissions... 36Kr.com. August 2025. (Tweet quoted)

• New study calls AI reasoning a âbrittle mirageâ. San Francisco Examiner. Aug 2025. (Quotes & Covers our work)

• 454 Hints That a Chatbot Wrote Part of a Biomedical Researcherâs Paper. New York Times. . July 2025. (Quoted).

• The AI Industry Is Radicalizing. The Atlantic. July 2025. (Quoted, research covered).

• Large language models lack true reasoning capabilities, researchers argue. PPC Land. July 2025. (Quoted)

• The Illusion of Reasoning in Artificial Intelligence. Hush Vault. August 2025. (Quoted)

• Bombshell Research Finds a Staggering Number of Scientific Papers Were AI-Generated. Futurism. July 2025. (Quoted)

• AI âreasoningâ models might not be doing that at all. San Francisco Examiner. July 2025. (Discusses our research, and quotes me multiple times).

• Meta Is Building a Superintelligence Lab. What Is That?. New York Times. June 2025. (Discusses our research, and quotes me multiple times).

• Apple insists AI can't think, former OpenAI executive says: AGI is here, stop being sour. 36Kr.com. June 2025. (Cites our research).

• When billion-dollar AIs break down over puzzles a child can do, it is time to rething the hype. The Guardian. June 2025. (Discuses our work).

• Is superintelligent AI just around the corner, or just a sci-fi dream?. New Scientist. June 2025. (Discusses our work).

• Start-up FutureHouse debuts powerful AI âreasoning modelâ for science. Nature. June 2025. (Quoted; work cited)

• Googleâs Gemini transparency cut leaves enterprise developers âdebugging blindâ. VentureBeat. June 2025. (Discusses our work on reasoning trace semantics)

• Apple researchers say models like ChatGPT o3 look smart but collapse when faced with real complexity. India Today. June 2025. (Quoted).

• Why we misinterpret LLM 'reasoning'. Tech Talks. June 2025. (Covers our work on reasoning trace semantics).

• A Knockout Blow for LLMs? LLM âreasoningâ is so cooked, they turned my name into a verb. CACM Blog. (Extensive discussion of our work on LRM reasoning capabilities).

• Apple Is Pushing AI Into More of Its Productsâbut Still Lacks a State-of-the-Art Model. Wired. June 2025. (Quoted)

• Apple Says Claude, DeepSeek-R1, and o3-mini Canât Really Reason. Analytics India Magazine. June 2025. (Quoted)

• Appleâs LLM study draws an important distinction about reasoning models. 9TO5Mac. June 2025. (Quoted)

• AI doesn't crash into a wall. But LLMs do. El Grand Continent. June 2025. (Quotes & Research Discussed).

• Wait a minute! Researchers say AI's "chains of thought" are not signs of human-like reasoning. Decoder. May 2025. (Covers our recent paper)

• Why multi-agent AI tackles complexities LLMs canât. Venture Beat. November 2024. (Quoted)

• OpenAI is So Doomed if Inference Time Scaling for o1 Fails. Analytics India Magazine. 2024. (Quoted)

• Apple Proves OpenAI o1 is Actually Good at Reasoning. Analytics India Magazine. October 2024. (Quoted)

• AIM 100: The Most Influential Global Leaders in AI. Analytics India Magazine. October 2024. (Listed as an AI Creator in their AI 100)

• Researchers put OpenAI's o1 through its paces, exposing both breakthroughs and limitations. The Decoder. September 2024. (Coverage of our recent research).

• OpenAI o1 Likely Uses RL over Chains of Thought to Build System 2 LLMs. Analytics India Magazine. September 2024. (Cites my speculations on OpenAI o1 model)

• Why Google Will Make a Better Model Than OpenAIâs o1 . Analytics India Magazine. September 2024. (Quoted)

• After Software Engineers, LLMs Are Coming After AI Researchers. Analytics India Magazine. September 2024. (Quoted)

• OpenAI Thinks ChatGPT Thinks. Analytics India Magazine. September 2024. (Quoted).

• Do you think that ChatGPT can reason?. Machine Learning Street Talk. August 2024. (˜2hr podcast interview) (Over 67K views)

• What is Stopping Devs from Building an LLM? Analytics India Magazine. Aug 2024. (Research Covered)

• Video showing human-like tiger shows dangers in social media posts. Channel 12 News. August 2024. (Interview).

• Waitâ¦ Did OpenAI Just Solve âJagged Intelligenceâ? Analytics India Magazine. August 2024. (Coverage)

• LLMs Have Stalled the Progress of AGI. Analytics India Magazine. August 2024. (Quoted).

• Ray Kurzweil Still Says He Will Merge With A.I. **New York Times**. July 2024.(Quoted)

• The New ChatGPT Offers a Lesson in A.I. Hype. **New York Times**. May 2024. (Covers our research)

• Can Artificial Intelligence Make the PC Cool Again?. **New York Times**. May 2024. (Quoted)

• How AI is Changing Political Landscape. ABC Channel 15. May 2024. (On air TV interview).

• Arizona House votes to regulate deepfakes. Courthouse News. May 2024. (Quoted)

• Donât Be Fooled by A.I. Katy Perry Didnât Attend the Met. **New York Times.** May 2024. (Quoted)

• Even Katy Perry's mom was fooled by what appeared to be AI-generated Met Gala pics. **NBC News (National).** May 2024. (Quoted)

• A Mom Was Convinced Her Daughter Was Kidnapped After Hearing Her Voice. Romper. May 2024. (Quoted)

• AI Chatbots Will Never Stop Hallucinating. **Scientific American.** April 2024. (Multiple quotes)

• Is OpenAIâs Sam Altmanâs future worth 7 trillion? The Hill. April 2024. (Research covered)

• In One Key A.I. Metric, China Pulls Ahead of the U.S.: Talent. **New York Times**. March 2024. (Quoted)

• In Latest A.I. War Escalation, Elon Musk Releases Chatbot Code. **New York Times** March 2024. (Quoted)

• Can an A.I. make plans?. **The New Yorker**. (Annals of AI). March 2024. (Discusses our research)

• DEEPFAKES: EXPERTS SPEAK ON THE FUTURE OF AUTHENTICITY ONLINE. State Press (ASU). March 2024. (Interviewed)

• Arizona lawmakers look to crack down on people abusing AI with new bill. AZ Family (Channel 3). (Interviewed on TV news). Feb 2024.

• Google Rebrands Its AI Chatbot as Gemini to Take On ChatGPT. Wired. Feb 2024. (Quoted).

• âThey honored my faith,â Khan told leaving prison, but it was not his voice and This raises a question: can A.I. circumvent repression?. Expresso (Portugal). Feb 2024. (Quoted on the use of voice deep fakes in elections).

• Preparing for the Age of AI Scams. 1A Show. NPR. Jan 2024. (1hour panel on NPR talk show).

• LLM Search Engine Shamelessly Spins Fluff. Analytics India Magazine. Jan 2024. (Quoted).

• What Annoys Subbarao the Most?. Analytics India Magazine. Jan 2024. (Profile)

• LLMs are just like Tootpaste. Analytics India Magazine. Jan 2024. (Write of my views on LLM approximate retrieval).

• The big model is the "dream machine". 36Kr. Dec 2023. (Coverage of tweets).

• These Clues Hint at the True Nature of OpenAIâs Shadowy Q* Project. Wired. Nov 2023. (Quoted).

• AI in the classroom: does it have a place?. Arizona Public Radio. Nov 2023. (Interview)

• Analyst says 'nothing surprising' about

• Musk's 'Grok'. Reuters. (Interview). Nov 2023.

• AI voice phishing that gave this family a terrible nightmare. JTBC News (South Korea). Oct 2023. (TV Channel Interview). GPT-4 didnât know it was wrong. New flaws in LLM were exposed. The self-correction success rate was only 1%. 36Kr. Oct 2023. (Research coverage).

• LeCun and xAI are at loggerheads, and there is no solution for the major reasoning flaws of GPT-4? . 36Kr. Oct 2023. (Research coverage)

• Emerging Dangers: How AI Allows For the Virtual Kidnapping Threat. Techopedia. Oct 2023. (Quoted)

• The alarming growth of deepfakes and why you should be worried. Doha News. Sep 2023. (Quoted)

• Could AI tools help Arizona K-12 kids get math scores up to grade-level? Good Morning Arizona. AZ Family (Channel 3). (Interviewed on TV). Sep 2023.

• CROW: UNIVERSITIES MUST 'UP THEIR GAME' TO EMBRACE ARTIFICIAL INTELLIGENCE. State Press. September 2023. (Interviewed)

• Exploring AI advancements, and navigating its transoformations.. Carpool Convos. ASU Enterprise Technology. (Interview in a driveless car). September 2023.

• Can LLMs Really Reason and Plan? Communications of ACM Magazine Blog. Sep 2023. (Blog piece)

• Phoenix-area AI expert says legislation on the evolving technology is essential. Good Morning Arizona. AZ Family (Channel 3). (Interviewed on TV). Sep 2023.

• Deepfake scams have arrived: Fake videos spread on Facebook, TikTok and Youtube. NBC News (National). August 2023. Quoted.

• Gannett Pauses AI Written Articles. AZ Family (Channel 3). August 2023. TV Interview.

• Conduct of fifth edition of AI Workshop at INS Valsura (09-11 Aug 23) . Indian Navy. August 2023. Press Release. (Covers my address to Navy AI workshop, with picture).

• Artificial intelligence: the age of the "machine god" (InteligÃªncia artificial: a era do "deus" mÃ¡quina). Diario de Pernambuco Busca. August 2023. (Quoted with photo).

• Valley-based dating app uses AI to enhance user experience. ABC Channel 15. July 2023. (On air TV interview).

• HOW ASU AND ITS FACULTY ARE CRACKING DOWN ON DISHONEST USES OF AI. State Press. July 2023. (Interviewed).

• As Deepfake Fraud Permeates China, Authorities Target Political Challenges Posed by AI. Voice of America. June 2023. (Quoted)

• Scottsdale mom set to testify in congressional hearing about AI voice scams. AZ Family (Channel 3). June 2023. (Quoted).

• Voice-cloning AI scams on the rise: Arizona AG & ASU Professor send warning. FOX 10 News (Phoenix). (Two interview segments in the evening news). June 2023.

• AZ Attorney General releases warning on AI Scams. ABC Channel 15. June 2023. (Quoted)

• Valley man warns of kidnapping scam as crooks use AI to enhance schemes. ABC Channel 15 Arizona. June 2023. (Interviewed on air for a story on AI Voice Scams)

• Adam DâAngeloâs Endless Quest to Answer Everything. The Information. June 2023. (Quoted about Quora's POE service)

• Quotation of the Day: When Chatbots 'Hallucinate.' New York Times. May 8, 2023.

• When A.I. Chatbots Hallucinate. New York Times. May 2023. (Quoted)

• What Exactly Are the Dangers Posed by A.I.?. New York Times. May 2023. (Quoted)

• Why Pope Francis Is the Star of A.I.-Generated Photos. New York Times. April 2023. (Quoted)

• ChatGPT and Societal Implications Good Morning Arizona. Channel 3 (Phoenix). (Live Interview). April 2023.

• Are ASU students using AI to help with school work? Most say no. Here's why. Fox 10 News (Phoenix). (Segment with interview excerpts). April 2023

• 'All technologies disrupt employment': ASU professor on introducing AI to the workplace. KJZZ 91.5 (NPR Phoenix). April 2023.

• ASU professor talks use of AI, ChatGPT in universities and its future. Fox 10 News (Phoenix). Interview (˜20min). April 2023.

• ChatGPT: What you should know about the AI chatbot and its impacts, both good and bad. Fox 10 News (Phoenix). Explainer (quotes me). April 2023

• This is my daughter's voice: AI convinces metro Phoenix moms of fake abductions. Arizona Republic. April 2023. (Quoted)

• Criminals using AI to clone voices in a bid for ransom. Fox News (National Cable). (Expert appearance in the segment). April 2023.

• 'Iâve got your daughterâ: Scottsdale mom warns of close call with AI voice cloning scam. Segment about Voice Cloning Scams. Good Morning Arizona (KPHO/KVTK Channel 3, Phoenix). April 2023. (Interviewed on camera)

• AI Professor Kambhampati Subbarao. Cheppalani Undi (à°à±à°ªà±à°ªà°¾à°²à°¿ à°à°¦à°¿). Eeenadu TV (ETV) Andhra. April 2023. (˜1hr interview in Telugu)

• AI clones teen girlâs voice in million dollar kidnapping scam: âIâve got your daughterâ. New York Post. April 2023.

• A mom thought her daughter had been kidnappedâit was just AI mimicking her voice Popular Science. April 2023. (Quoted)

• ASU research expands artificial intelligence knowledge. ASU News. April 2023. (Research Profiled)

• That panicky call from a relative? It could be a thief using a voice clone, FTC warns. NPR (National Public Radio). March 2023. (Quoted) OpenAI's GPT-4 Is Closed Source and Shrouded in Secrecy. Vice. March 2023. (Quoted)

• Beauty, lies & ChatGPT: Welcome to the post-truth world. The Hill. Feb 2023 (Opinion Column).

• EntÃ£o tÃ¡, vamos falar sobre o ChatGPT (So, let's talk about ChatGPT). Communica.ufu.br (Brazilian News Portal). (Quotes The Hill piece). March 2023.

• The State of Artificial Creativity. ASU News. February 2023. (Interview) ChatGPT Worries Professors, Excites Them For Future of AI. State Press. Jan 2023. (Interviewed).

• IIT Jodhpur concludes NAiBS-2023 âNext-gen AI: Inspiration from Brain Scienceâ international conference. NE India Broadcast. Jan 2023. (News Item)

• Subbarao Kambhampati: Avamanamtho.. Kalla neellu thirigaayi. Eenadu (Telugu). 25th December 2022. (Profile in Sunday Magazine).

• How Is Everyone Making Those A.I. Selfies?. **New York Times.** December 2022. (Quoted and research linked)

• Diver Rahita Kaarlu Ippude Kaadu (Self-driving cars are not here yet). Eenadu (Telugu). December 2022.

• What is Augmented Intelligence?. BuiltIn (Explainer article). October 2022.

• Ready or not, mass video deepfakes are coming. **Washington Post**. August 2022. (Quoted)

• The ethical and privacy concerns over deep fakes and AI and our democracy. Cincinnati Edition (NPR/WVXU). August 2022 (Interview)

• Large language models canât plan, even if they write fancy essays. The Next Web. July 2022. (Coverage of our research). (First appeared in Tech Talks)

• Meet the LA Startup That Lets People Talk to the Dead Dot.LA. August 2022. (Quoted)

• Amazon's Alexa could soon speak in a dead relative's voice, making some feel uneasy. NPR (**National Public Radio**). Quoted. June 2022.

• DALL-E Mini and AI Sentience Good Morning Arizona. Channel 3/Phoenix. (Interview Segment) June 2022.

• Amazonâs Alexa Can Mimic Any Voice. Morning Wave Busan. Special Interview. June 2022.

• Explainability, Human Aware AI & sentience in large language models. Podcast interview with Jay Shah. June 2022.

• AI as (an Ersatz) Natural Science?. Communications of the ACM (Blog). (Viewpoint) June 2022.

• Dall-e 2: What is the AI image generator creating strange artworks out of nothing â and how do you use it?. Independent (UK Newspaper). Quoted. June 2022.

• Meet DALL-E, the A.I. That Draws Anything at Your Command. **New York Times.** April 2022. (Quoted)

• Distinguished career earns Kambhampati Alumnus Award. In the Loop (ASU Fulton). April 2022. (Profile)

• Deepfake, come funzionano e che ruolo hanno nella guerra in Ucraina. . Domani. March 2022. (Quoted)

• Broad and Shallow AI: The Promise and Perils of Competence without Comprehension. The India Forum. Jan 2022. (Column)

• Access for all: the democratisation of AI E&T Engineering and Technology. November 2021. (Quoted).

• Language Imitation Games and the Arrival of Broad and Shallow AI Communications of the ACM Blog. October 2021. (Made it to the top-5 articles list at #1).

• After Covid A.C.10 JTBC TV Channel. South Korea. October 2021. (Interviewed as part of a 3 part documentary on future after Covid--with special attention to AI and--privacy).

• A Stanford Proposal Over AI's 'Foundations' Ignites Debate. Wired. September 2021. (Quoted)

• S2E10: Subbarao Kambhampati with Dhruv Batra on Humans of AI: Stories, Not Stats. Podcast. An hour long interview. September 2021. (Interview)

• Covid-19 May Have Rewired People's Relationships with Artificial Intelligence Forever. Observer. April 2021. (Quoted)

• What's next for iris-recognition systems? ASU Now. March 2021. (Interview)

• Will Artificial Intel get along with us? Only if we design it that way. The Hill. Feb 2021. (Opinion Column)

• Who should stop unethical AI?. **The New Yorker**. Feb 2021. (Quoted)

• Dancing, vacuuming, learning: What's next for robots and their creators?. ASU News. Jan 2021. (Profiles our research)

• Innovators Network Foundation Announces 2020-21 Privacy Fellows. December 2020.

• Samsung AI Forum 2020: Humanity Takes Center Stage in Discussing the Future of AI. Samsung Newsroom. Nov 2020.

• Samsung AI Forum Day 2: Putting People at the Center of AI Development. Samsung Newsroom. Nov 2020. (Covers my talk on Human-Aware AI).

• Why are Artificial Intelligence systems biased?. The Hill. July 2020. (Opinion Column)

• Deepfakes Are Becoming the Hot New Corporate Training Tool. Wired. July 2020. (Quoted)

• Artificial Intelligence Can Predict Our Behavior, But It Had To Adjust To COVID-19. Word. NPR/KJZZ. June 2020. (On Air Interview)

• Enlisting AI in our war on coronavirus: Potential and pitfalls The Hill. March 2020. (Opinion Column)

• Our Deepfake Future. Virginia Quarterly Review. Spring 2020. (Interview in comic form!).

• Trump Proposes a Cut in Research Spending, but a Boost for AI. Wired. February 2020. (Quoted)

• WOULD YOU LIKE TO BE OPERATED [ON] BY ROBOTS? Analytics India Magazine. February 2020 (Tweet quoted).

• AI computing will enter the 'land of humans' in the 2020s: The promise and the peril. The Hill. January 2020. (Opinion Column)

• Facebook says it will ban 'Deepfakes'. **New York Times**. January 2020. (Quoted)

• Is seeing still believing? The deepfake challenge to truth in politics. Brookings Institution. January 2020. (Quoted)

• Fake Trump video? How to spot deepfakes on Facebook and YouTube ahead of the presidential election. USA Today. January 2020. (Quoted)

• Searching for information on Iran's missile strike? Google, YouTube lean on trusted sources; Facebook doesn't. USA Today. January 2020. (Quoted)

• ASU engineering professor elected as ACM Fellow. ASU Now. December 2019. (Profile/News)

• Internet Companies Prepare to Fight the 'Deepfake' Future. **New York Times**. November 2019. (Quoted)

• Perception won't be reality, once AI can manipulate what we see. The Hill. November 2019. (Opinion Column)

• What just happened? The rise of interest in Artificial Intelligence.
The Hill. August 2019. (Opinion Column)

• AI Stats News: Data is eating the world quote of the week
Forbes. August 2019. (Quoted)

• # Wahl19 #Image: How pictures make politicians Der Standard (Austrian). September 2019. (Quotes our ICWSM 2016 paper).

• 'Deepfake face swap' app ZAO is making people afraid of the future. BoingBoing(Blog). Septemeber, 2019. (Tweet-quoted)

• The Age of Artificial Intelligence . Channel News Asia. August 2019. (Interviewed on the news story)

• Data biases can skew outcomes of AI-based systems. **The Hindu** Business Line. July 2019. (Coverage of my lecture in Hyderabad, India)

• When Atta Halilintar, the YouTube Child (is) Rejected on Twitter. Tirto (Indonesian). August 2019. (Quotes our ICWSM 2016 paper).

• When it comes to #MeToo, is Instagram the new Twitter?". Footwear News(!). July 2019. (Quotes our ICWSM 2016 paper).

• Comments on AI-based Wimbledon highlights; Starts 13th min at the link Details with Andrey Derkach. Voice of America Russian Edition. July 2019.

• AI Conference AAMAS: With warm-heartedness and irony, the robot dialogue succeeds. Heise Online, May 2019 (Coverage of my AAMAS invited talk)

• Renowned AI Expert Subbarao Kambhampati Speaks at PDLS. SMU News. (April 2019) (Coverage of my talk)

• The Rise of AI and Its Challenges Interview on Channel News Asia. April, 2019.

• When is it OK for AI to Lie? ASU Now. January 2019. (Coverage of our research)

• Leading experts in Philosophy, Economics, Law and More Convene at AIES 2019 to Assess Impact of AI on Society. ACM News Release. January 2019. (Our paper is one of the 7 highlighted).

• Pai Advises Real Regulatory Humility on Artificial Intelligence B+C November 2018. (My remarks at FCC covered).

• FCC Chair Calls for Regulatory Restraint for Developing AI. Cablefax. November 2018. (Quoted).

• Google Tweaks Email Program That Assumed An Investor Was Male. NPR. November 2018. (Quoted).

• Que le falta mejorar a la inteligencia artificial Las Ultimas Noticias. (Chile). November 2018. (Coverage of a speech).

• Inteligencia Artificial: Las maquinas que sorprendieron en encuentro internacional realizado santiago. Etstrategia. November 2018. (Coverage).

• Das Silicon Valley will Algorithmen Moral beibringen e Konzerne schlieen sich an Handelsblatt (Germany). October 2018. (Quoted)

• Infra to collect data is the tough part: Subbarao Kambhampati, professor, computer science, Arizona State University . The Economic Times (India). Profile/Interview. June 2018.

• Voices in AI: A conversation with Subbarao Kambhampati. Voices in AI Podcast (audio + transcript). Jun 2018.

• How India is carving out a niche for itself in the field of Artificial. Intelligence. The Economic Times (India). Quoted. June 2018.

• The price of panic: ASU experts ground us in what AI really is and can be . ASU State Press Magazine. (Featured). June 2018. Fear and hope in the age of AI. Fountain Ink. (Long form magazine; India). May 2018. The Trump Administration Finally Looks at Artificial

Intelligence Le Temps (French). May 2018.

• Inside the Transformation: Our Relationship with AI (Episode 107H). KQED Television (Bay Area). April 2018.

• Researchers study effects of photo filters on social media The State Press. April 2018. (Coverage of our research)

• 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)

• Global Governance of AI Roundtable: World Government Summit 2018, The Future Society. March, 2018. (Interivew)

• Should AI bots lie? Hard truths about Artificial Intelligence ZDNet.com. (Feb 2018). (Coverage of our research)

• China's AI Imperative Science Magazine. (Feb 2018). (Quoted).

• Questioning AI: What are the key research challenges?" **The Guardian** Science Weekly Podcast. (Jan 2018). (Participant)

• #1: The Landscape of Artificial Intelligence with Rao Kambhampati Vocies of AI. Jan 2017. (Podcast Interview). Sophia: This is downright scam Leiphone. (Jan 2018). (Quoted) [Also on 36KR.com]

• Artificial Intelligence in 2017 still can't understand humans Mashable. December 2017 (Interviewed). Exemplary leadership, significant contributions earn ASU professors AAAS Fellow status ASU Now. December 2017. (Profile about AAAS Fellowship).

• Over a Dozen Outstanding Indian American Scientists Named 2017 AAAS Fellows India West. December 2017. (Mention)

• 19 Indian Americans recognized by American Association for the Advancement of Science News India Times. December 2017. (Mention)

• How Artificial Intelligence is Transforming local business Phonenix Business Journal. (Quoted). November 2017.

• The future of autonomous weapon regulation relies on public awareness
Venture Beat. November, 2017. (Quoted)

• AI taught itself to beat us at our own game--what does it mean? ASU Now. (Q&A) November 2017.

• I'm a pacifist, so why don't I support the Campaign to Stop Killer Robots? **The Guardian**. UK. November, 2017. (Op-Ed)

• Artificial intelligence risks GM-style public backlash, experts warn. **The Guardian**. UK. November, 2017. (Quoted)

• Our Relationship with AI KQED Radio. Radio Special. November, 2017. (Radio broadcast of CHM panel)

• How Closer Are We to Robots Replacing Us? Seeker Media Video Segment. How Close Are We? series. Oct 2017. (Featured)

• Elon Musk predicts that A.I. is 'Most Likly Cause of World War III'. Inverse. September 2017 (Reprinted in Yahoo).

• Solar Reflections: Have Machines Eclipsed Humans? Alley Watch, August 2017. (Quoted).

• AI Scientists to Elon Musk: Stop Saying Robots Will Kill Us All. Inverse (interview), July 2017.

• AI Researchers Disagree With Elon MuskÃ¢ Warnings About Artificial Intelligence Futurism (quoted). July 2017.

• Elon Musk SLAMMED by top researchers for scaremongering over dangers of AI, Daily Express (UK), July 2017.

• Artificial Intelligence Experts Rebut Elon Musk's Warning and Call for Regulation, Christian Post, July 2017.

• Elon Musk Called An Alarmist By AI Experts, Machine Overlords A Far-Fetched Idea EconoTimes, July 2017.

• Elon Musk und KI: Widerspruch aus der Forschung Trends der Zukunft. July 2017. (German)

• Des experts en IA reprochent Elon Elon Musk de se montrer trop alarmiste Numerama. July 2017. (French)

• Yapay zeka arastirmacilari Elon Musk ile ayni fikidre degil Webrazzi, July 2017 (Turkish)

• Le gouvernement americain neglige-t-il l'itelligence artificielle? Le Temps (French). July 2017.

• Voice AI might still have a long way to go TV interview. CGTN Live. TV Segment, Shenzen, China. July 2017.

• Interview with Leifeng Net. July 2017.

• China press coverage of my plenary presentation at CCF-GAIR, 2017, Shenzen. Leiphone, July 2017. (Coverage of the talk and Interview.)

• AI Revolution Reshaping Chinese Society. Today (Singapore). June 2017. (Quoted)

• Dewey Decimal Drama. Every Little Thing (Gimlet Media). Interview about biases in Dewey Decimal System and AI. June 2017.

• Artificial intelligence's potential impacts raise promising possibilities, societal challenges. Phys.Org. June, 2017. (Also on ASU Now).

• Coverage of the inaguration of AAAI India Chapter, and invited lecture at IIIT-Hyderabad. Various Indian news media. June 2017.

• Is China Outsmarting America in A.I.?. **New York Times**. May 2017. (Quoted on the proposed U.S. budget and preparing for the future with A.I.)

• Tech majority disagrees with AI warnings from Hawkings, Musk and Gates. Network World. May 2017. (Coverage of paper)

• ASU Team Taking Concept for Closer Human-Robot Connection to U.S. Imagine Cup Finals. Full Circle, April 2017 (Coverage of Work) (Version in ASU Now)

• Human-Robot Communication. Cronkite News. April 2017. (Coverage of Work)

• Episode 3: Machines Take Over the World. From robots that paint Rembrandts to Twitterbots gone rogue, Bill and his guests explore the potential and pitfalls of artificial intelligence Panelist. Bill Nye Saves the World. **Netflix Original Series**. April 2017.

• Eminent Astrophysicist Issues a Dire Warning on AI and Alien Life (Quoted). Futurism April, 2017.

• How Trump's 'extreme vetting' hurts science and tech ComputerWorld (Quoted). March, 2017.

• Fighting AI with AI Off Air, Science Friday. March 2017. (Quoted)

• Science Friday segment with Ira Flatow about AI & Security. Februrary, 2017.

• Our Bots, Ourselves. **The Atlantic**. March 2017. (Print edition) (Quoted).

• China's Artificial Intelligence Boom. **The Atlantic**. Feb 2017. (Online) (Quoted).

• AAAI and internationalization: An interview Leiphone; Feb 2017. (Interview)

• Asm pretenden Google, Apple y el resto de gigantes educar a la inteligencia artificial; Article on Partnership for AI; El Diario. Feb 2017. (Quoted).

• Coverage about the inaugural board of trustees for the Partnership for AI. (Jan 2017) (TechCrunch, Wallstreet Journal, Quartz, Inverse, MS Power User, The Tech Portal Forbes, Kabir News). Tech Giants Team Up To Tackle The Ethics Of Artificial Intelligence. Quoted in an article on Partnership on AI, NPR All Tech Considered. September, 2016. Why tech giants are forming an AI coalition. Christian Science Monitor. September, 2016. (Quoted) Amazon, Facebook, Google, IBM og Microsoft skal samarbeide om kunstig intelligens, Digi.No (In Norwegian) (Quoted) (September 2016) Gemeinsame Standards ORF.at (Austrian site in German) (quoted) (September 2016)

• How 'human-aware' AI could save us from the robopocalypse A write-up on IJCAI 2016 theme in PC World, ComputerWorld etc. July, 2016 The Difference Between Robot's Artificial Intelligence And Humans An interview on KJZZ Public Radio Station; 3/17/2016.

• Experts explain the biggest obstacles to creating human-like robots. Tech Insider. 3/6/2016

• Artificial Intelligence Just Mastered Go, But One Game Still Gives AI Trouble Discover Magazine (quoted in), 1/27/2016.

• Can AI solve information overload? CIO Magazine. (Quoted). 12/29/2015. Old School Photography Techniques are making a comeback: On Instagram (Phoenix New Times, 12/15)

• 18 AI researchers reveal the most impressive thing they've ever seen (TechInsider, 11/15)

• This phenomenon explains what everyone gets wrong about AI (TechInsider, 10/15)

• The future may be full of intentionally clumsy and apologetic robots (TechInsider, 10/15)

• I binge-watched 7 movies about artificial intelligence and the most accurate one was a cartoon (Business Insider, Australia; 8/15)

• 19 A.I. experts reveal the biggest myths about robots (Tech Insider; 10/15).

• HUMAN BRAINS ARE TOO PUNY and 15 more reasons why top researchers are obsessed with AI (Business Insider, India; 10/15)

• Los mejores filtros para que tus fotos sean un ixito en redes sociales, segzn la ciencia BBC Mundo (in Spanish) 6/15.

• Turns Out There Are a Lot of Academics Studying Photo Filters (Wired.com; 5/15)

• Which Instagram filter should you use? Science has the answer (Sydney Morning Herald; 5/15)

• Instagram Is Vast But Its Favorite Themes Are Surprisingly Few, Study Shows (ABC News Online; 10/14)

• Is Twitter Bad For Language? Statistical Analysis Says No (Huffington Post excerpts from the book Dataclysm which profiles our work on Twitter Language (9/14)

• Twitter Analysis of Public Opinion (PBS Horizon, 10/13). Tapping Twitter data for in-depth analysis of public opinion (ASU News; 9/13)

• Professors using blogs, podcasts as teaching tools (The Arizona Republic and other venues; 2/07)

Research Grants (Reverse Chronological Order; Total $16.3M)

- Unrestricted gift to support research on LLM reasoning capabilities. Apple. $40,000. (Fall 2026)
- Leveraging LLMs for Flexible Open-World Planning. Army Research Office. $449,746 (8/1/2026-7/31/2029)
- Understanding the Role of LLMs in Planning Tasks. Office of Naval Research. $567,520. (5/2025-5/2028).
- Investigating the Capabilities & Limitations of LLMs in Planning (With Applications to Embodied Agents & Cyber Security). DARPA ISO Cooperative Agreement. $492,909 (1/2025-12/2025)
- Unrestricted gift to support research on LLMs and Planning. Qualcomm Research. $250,000. (5/2024)
- Calibrating Trust and Confidence in LLM/LRM Decision-Making Aids. Subcontract through CMU SEI. $149,811. (5/2025-12/2025)
- Understanding and Leveraging Planning, Reasoning & Self-Critiquing Capabilities of Large Language Models. AWS AI Amazaon Research Awards. $70,000 cash and $50,000 AWS credits. (3/2024).
- Engendering & Leveraging Trust in Longitudinal Human-AI Interactions. Office of Naval Research (ONR). PI: Kambhampati. $626,883. (8/2023-7/2026).
- Automated Extraction and Execution Support for Cognitive Workflows in Finance. J.P. Morgan AI Research Faculty Award. (Unrestricted Gift). $90,000 (9/1/2021-8/31/2022).
- ACT-NOW: Autonomous Cognitive Technologies for Novelty in Open Worlds. DARPA SAIL-ON Initiative. $2,349,749 (Co-PI; share 50%) (11/15/2019-6/30/2023)
- Human-Aware AI Assistants for Interactive Decision Support in Finance. J.P. Morgan AI Research Faculty Award. (Unrestricted Gift). $150,000. (3/1/2019-2/29/2020)
- RAISE: C-Accel Pilot - Track B2 (National Talent Ecosystem): Safe Skill-Aligned On-The-Job Training with Autonomous Systems. National Science Foundation (NSF). 9/1/2019-5/31/2020. $998,588 (Co-PI. Share 10%).
- Hardened Orchestrated Response for Uncertain Settings (HORUS); DARPA CHASE Program. $674,000 (10/1/2019-9/30/2022) (Co-PI. Share 50%)
- Human-Aware Planning & Decision Support for Collaborative Complex Decision-Making. Office of Naval Research (ONR). PI: Kambhampati (9/15/2018-9/14/2024). $1,931,087.
- Proactive Decision Support for Human-in-the-Loop Mission Planning. Office of Naval Research (ONR). PI: Kambhampati (7/1/2018--6/30/2023). $1,153,076.
- Plan-recognition-Driven Attention Models for Supporting Active Perception in Decentralized Multi-Agent System. Office of Naval Research (ONR). PI: Kambhampati (with Baoxin Li). (3/25/2019-3/24/2023). $1,193,410. (Share: 40%).
- EAGER: Hierarchical Contrastive Explanations for Robot-Human Communication. National Science Foundation (NSF). PI: Siddharth Srivastava; Co-PI: Subbarao Kambhampati. (9/1/2018--8/30/2020). $274,581. (Share: 40%)

- Improving Situation Awareness in Distributed Human-Robot Teams. Airforce Office of Scientific Research (AFOSR). PI: Nancy Cook. Co-PI: Subbarao Kambhampati. (3/1/2018--1/31/2022) $2,014,294.
- Explicable planning and replanning for human-in-the-loop decision support. (Early stage innovations (ESI)). NASA. PI: Kambhampati. (1/15/2017-1/14/2020). $500,000.
- Planning Challenges in Human-Robot Teaming: An Integrated Exploration of Representations, Algorithms and Human Factors. ONR. PI: Kambhampati Co-PI: Nancy Cooke (8/1/2016-7/31/2019) $774,376 (Kambhampati share: $550,782).
- Instrumentation for Research on Planning for Peer-to-Peer Human-Robot Teaming. ONR. PI: Kambhampati. (8/15/2015--8/14/2016), $282,500.
- Leveraging Automated Planning Technology to Develop Mixed-Initiative Decision Support Tools for the Web. $51,500. Google Research Award (unrestricted gift). 2016.
- RADAR: A Framework for Human-in-the-loop Planning and Data-based decision support. ONR. PI: Kambhampati (1/1/2015--12/31/2017) $596,800.
- Video-based Activity Recognition through Tight Integration of Visual Reasoning and Plan Recognition. ONR. PI: LI (Co-PI: Kambhampati) (5/1/2015--4/30/2018) $753,553.
- Instrumentation for Research on Planning for Human-Robot Teaming. ARO. PI: Kambhampati. (8/1/14-7/31/15) $112,864.
- Exploratory Research on RADAR: Proactive Decision and Data Support. ONR. PI: Kambhampati. (6/1/14-12/31/15) $20,000.
- Listening To the Crowd: Automated Alignment, Aggregation and Analysis of Social Media Responses to Public Events $55,000. Google Research Award (unrestricted gift). 2013.
- Robust Planning in the Presence of Partially Specified Domain Models. ONR. PI: Kambhampati. (1/1/13-12/31/15) $450,000.
- Long-Term Continual Planning for Remote Human-Robot Teaming in Open Worlds. ONR. PI: Kambhampati. (1/1/13-12/31/15). $450,000 (Kambhampati share $349,675).
- Planning for Peer-to-Peer Human Robot Teaming in Open Worlds. ONR. PI: Kambhampati. Co-PI: Nancy Cooke. (5/1/13-4/30/16). $450,000.
- S3: Suggestions for Suitable Scenarios. ASU subcontract on DARPA Oh By the Way program (subcontract through SIFT). $341,270, 12/2010-2/1014.
- Relevance and Trust Aware Ranking for the Deep Web. $50,000. Google Research Award (unrestricted gift). 2011.
- Metaplanning Framework to Evaluate and Select Decision Making Paradigms for UAV Missions. Northrup Grumman Corporation. $174,524. 1/1/2010--12/31/2010. (PI: Sandeep Gupta).
- Solving Stochastic Planning Problems through Principled National Science Foundation. (Robust Intelligence Medium Collaborative Grant with Purdue and Oregon State) $328,821. 7/2009--6/2012.
- Foundations of Model-lite Planning. Office of Naval Research. $342,854. 10/2008--8/2011.
- Source and User Adaptive Information Integration. Office of Naval Research. $472,589. 10/2008--8/2011.

- Google Research Grant. Unrestricted cash gift. $50,000. 1/2008.
- Effective human-robot interaction through natural language dialog and dynamic autonomy. ONR Multi-University Research Initiative Award. ASU Share: $1,000,000. 7/2007-7/2012. (One of three ASU PIs) (Other Institutions: Indiana University, Notre Dame, Stanford).
- Computational Approaches to Creativity Through Goal-Directed Cross-Domain Analogy. National Science Foundation. $200,000. 8/2007--8/2009.
- ASU subcontract of DARPA Integrated learning program. DARPA (subcontract through Lockheed Martin), $420,000. 6/2007-12/2008. (Phase 2 of a 4-phase program)
- ASU subcontract of DARPA Integrated learning program. DARPA (subcontract through Lockheed Martin),
  $420,000. 6/2006-6/2007. (Phase 1 of a 4-phase program)
- AOC: Archaeological Data Integration for the Study of Long-Term Human and Social Dynamics. National Science Foundation.
  $750,000. 1/2007-1/2010. (One of 6 PIs).
- Supporting Partial Satisfaction Planning and Replanning in Expressive and Mixed Initiative Domains. Office of Naval Research.
  $300,000. 10/2005-9/2008
- Enabling the Study of Long-Term Human and Social Dynamics: A Cyberinfrastructure for Archaeology. National Science Foundation. Planning grant. $100,000. (One of 10 PIs). 7/2004-6/2005.
- IBM Faculty Award. Unrestricted cash gift. $40,000. 7/2004.
- "Scalable Multi-Objective Planning for Metric Temporal Domains: Heuristics, Algorithms and Tradeoffs." National Science Foundation. Sole PI. $459,042. (1/7/2003-30/6/2006).
- Enabling Technologies for Intelligent Information Integration. Prop 301 Initiative. State of Arizona. $350,000. (1/1/2003-6/1/2005). (Lead PI; with 4 others).
- ‘‘Heuristic control of Plan Synthesis and Execution.’’ NASA Intelligent Systems Initiative. $162,000. (3/1/2001-2/28/2004).
- Supporting Continual Planning and Replanning in Metric-Temporal Domains’’ NASA Cross-enterprise Technology. $483,000. (1/29/2001-1/28/2004). (Open competition among 1000 proposals; 10% award rate).
- Disjunctive planning as a unifying framework for scaling up plan-synthesis. National Science Foundation. 1998. IRI-9801676 $273,473. (9/1/98-8/31/02).
- Exploring Tradeoffs in Disjunctive Planning as a means to scale-up plan synthesis, Air Force Research Lab, F20602-98-1-0182, $100,000 (4/3/98-4/3/99). Extended to 7/3/00.
- NYI: Improving the generality and efficiency of AI planning Techniques,’’ **NSF Young Investigator Award**, $500,000 ($125,000 base level + Matching funds) IRI-9457634 (8/94-8/2001)
- Exploring the role of constraint propagation in refinement planning. ARPA AASERT Award. DAAH-04096-1-0247. (my share $227,571, 8/96-8/99).
- Automated Synthesis of Planners and Schedulers: Generic synthesis technology for crisis management. ARPA/ROME Laboratory Planning Initiative grant (with Doug Smith, Kestrel Institute), (my share $273,000, 9/95-9/98).

- "Automated Annotation for the Analysis and Modification of Plans," ARPA/ROME Laboratory Planning Initiative grant F30602-93-c-0039 (with J.A. Hendler and A. Agrawala, University of Maryland), (my share $225,000) (3/93-3/96).
- "*Exploring Fundamental Utility Tradeoffs in Plan Reuse*," Research Initiation Award, National Science Foundation, $90,000, IRI-9210997, (7/92-12/95)