

RAIR Lab Publication List

2023

- [1] Vivek Nallur, Louise A. Dennis, Selmer Bringsjord, and Naveen Sundar Govindarajulu. “A Partially Synthesized Position on the Automation of Machine Ethics”. In: *Digit. Soc.* 2.2 (2023). DOI: [10.1007/s44206-023-00040-8](https://doi.org/10.1007/s44206-023-00040-8). URL: <https://doi.org/10.1007/s44206-023-00040-8>.
- [2] Selmer Bringsjord, Michael Giancola, Naveen Sundar Govindarajulu, John Slowik, James T. Oswald, Paul Bello, and Micah Clark. “Argument-based inductive logics, with coverage of compromised perception”. In: *Frontiers Artif. Intell.* 6 (2023). DOI: [10.3389/frai.2023.1144569](https://doi.org/10.3389/frai.2023.1144569). URL: <https://doi.org/10.3389/frai.2023.1144569>.
- [3] Selmer Bringsjord, John Slowik, Naveen Sundar Govindarajulu, Michael Giancola, James T. Oswald, and Rikhiya Ghosh. “Affect-based Planning for a Meta-Cognitive Robot Sculptor: First Steps”. In: *11th International Conference on Affective Computing and Intelligent Interaction, ACII 2023 - Workshops and Demos, Cambridge, MA, USA, September 10-13, 2023*. IEEE, 2023, pp. 1–8. DOI: [10.1109/ACIIW59127.2023.10388202](https://doi.org/10.1109/ACIIW59127.2023.10388202). URL: <https://doi.org/10.1109/ACIIW59127.2023.10388202>.
- [4] Selmer Bringsjord, James T. Oswald, Michael Giancola, Brandon Rozek, and Naveen Sundar Govindarajulu. “The M Cognitive Meta-architecture as Touchstone for Standard Modeling of AGI-Level Minds”. In: *Artificial General Intelligence - 16th International Conference, AGI 2023, Stockholm, Sweden, June 16-19, 2023, Proceedings*. Ed. by Patrick Hammer, Marjan Alirezaie, and Claes Strannegård. Vol. 13921. Lecture Notes in Computer Science. Springer, 2023, pp. 62–73. DOI: [10.1007/978-3-031-33469-6_7](https://doi.org/10.1007/978-3-031-33469-6_7). URL: https://doi.org/10.1007/978-3-031-33469-6_7.
- [5] James T. Oswald and Brandon Rozek. “Parallel Verification of Natural Deduction Proof Graphs”. In: *Proceedings of the 18th International Workshop on Logical Frameworks and Meta-Languages: Theory and Practice, LFMTP@FSCD 2023, Rome, Italy, 2nd July 2023*. Ed. by Alberto Ciaffaglione and Carlos Olarte. Vol. 396. EPTCS. 2023, pp. 36–51. DOI: [10.4204/EPTCS.396.4](https://doi.org/10.4204/EPTCS.396.4). URL: <https://doi.org/10.4204/EPTCS.396.4>.

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- [1] Selmer Bringsjord, Naveen Sundar Govindarajulu, John Slowik, James T. Oswald, Michael Giancola, John Angel, Shreya Banerjee, and Aidan Flaherty. “PERI.2 Goes to PreSchool and Beyond, in Search of AGI”. In: *Artificial General Intelligence - 15th International Conference, AGI 2022, Seattle, WA, USA, August 19-22, 2022, Proceedings*. Ed. by Ben Goertzel, Matt Iklé, Alexey Potapov, and Denis K. Ponomaryov. Vol. 13539. Lecture Notes in Computer Science. Springer, 2022, pp. 178–187. DOI: [10.1007/978-3-031-19907-3_17](https://doi.org/10.1007/978-3-031-19907-3_17). URL: https://doi.org/10.1007/978-3-031-19907-3_17.
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- [3] Shreya Banerjee, Selmer Bringsjord, Michael Giancola, and Naveen Sundar Govindarajulu. “Qualitative Mechanical Problem-Solving by Artificial Agents: Further Progress, Under Psychometric AI”. In: *Proceedings of the Thirty-Fifth International Florida Artificial Intelligence Research Society Conference, FLAIRS 2022, Hutchinson Island, Jensen Beach, Florida, USA, May 15-18, 2022*. Ed. by Roman Barták, Fazel Keshtkar, and Michael Franklin. 2022. DOI: [10.32473/FLAIRS.V35I.130630](https://doi.org/10.32473/FLAIRS.V35I.130630). URL: <https://doi.org/10.32473/flairs.v35i.130630>.
- [4] Michael Giancola, Selmer Bringsjord, and Naveen Sundar Govindarajulu. “Novel Intensional Defeasible Reasoning for AI: Is it Cognitively Adequate? (poster)”. In: *Proceedings of the Workshop on Cognitive Aspects of Knowledge Representation co-located with the 31st international joint conference on artificial intelligence (IJCAI-ECAI 2022), Vienna, Austria, July 23, 2022*. Ed. by Jesse Heyninck, Thomas Meyer, Marco Ragni, Matthias Thimm, and Gabriele Kern-Isberner. Vol. 3251. CEUR Workshop Proceedings. CEUR-WS.org, 2022. URL: <https://ceur-ws.org/Vol-3251/paper9.pdf>.

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- [1] Selmer Bringsjord, Naveen Sundar Govindarajulu, and Michael Giancola. “Automated argument adjudication to solve ethical problems in multi-agent environments”. In: *Paladyn J. Behav. Robotics* 12.1 (2021), pp. 310–335. DOI: [10.1515/PJBR-2021-0009](https://doi.org/10.1515/PJBR-2021-0009). URL: <https://doi.org/10.1515/pjbr-2021-0009>.
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- [1] Selmer Bringsjord and Naveen Sundar Govindarajulu. “Rectifying the Mischaracterization of Logic by Mental Model Theorists”. In: *Cogn. Sci.* 44.12 (2020). DOI: [10.1111/COGS.12898](https://doi.org/10.1111/COGS.12898). URL: <https://doi.org/10.1111/cogs.12898>.
- [2] Selmer Bringsjord and Naveen Sundar G. “The Theory of Cognitive Consciousness, and Λ (Lambda)”. In: *J. Artif. Intell. Conscious.* 7.2 (2020), pp. 155–181. DOI: [10.1142/S2705078520500095](https://doi.org/10.1142/S2705078520500095). URL: <https://doi.org/10.1142/s2705078520500095>.
- [3] Selmer Bringsjord, Naveen Sundar Govindarajulu, John Licato, and Michael Giancola. “Learning Ex Nihilo”. In: *6th Global Conference on Artificial Intelligence, GCAI 2020, Hangzhou, China, April 6-9, 2020*. Ed. by Grégoire Danoy, Jun Pang, and Geoff Sutcliffe. Vol. 72. EPIc Series in Computing. EasyChair, 2020, pp. 1–27. DOI: [10.29007/GGCF](https://doi.org/10.29007/GGCF). URL: <https://doi.org/10.29007/ggcf>.

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- [4] Michael Giancola, Selmer Bringsjord, Naveen Sundar Govindarajulu, and John Licato. “Adjudication of Symbolic & Connectionist Arguments in Autonomous Driving AI”. In: *6th Global Conference on Artificial Intelligence, GCAI 2020, Hangzhou, China, April 6-9, 2020*. Ed. by Grégoire Danoy, Jun Pang, and Geoff Sutcliffe. Vol. 72. EPIc Series in Computing. EasyChair, 2020, pp. 28–33. DOI: [10.29007/K647](https://doi.org/10.29007/K647). URL: <https://doi.org/10.29007/k647>.
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- [3] Naveen Sundar Govindarajulu, Jean-Claude Paquin, Shreya Banerjee, Atriya Sen, Paul Mayol, and Selmer Bringsjord. “On Datasets for Evaluating Architectures for Learning to Reason”. In: *Proceedings of the AAAI 2019 Spring Symposium on Combining Machine Learning with Knowledge Engineering (AAAI-MAKE 2019) Stanford University, Palo Alto, California, USA, March 25-27, 2019., Stanford University, Palo Alto, California, USA, March 25-27, 2019*. Ed. by Andreas Martin, Knut Hinkelmann, Aurona Gerber, Doug Lenat, Frank van Harmelen, and Peter Clark. Vol. 2350. CEUR Workshop Proceedings. CEUR-WS.org, 2019. URL: <https://ceur-ws.org/Vol-2350/xposter4.pdf>.
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- [5] Selmer Bringsjord, Naveen Sundar Govindarajulu, and Christina Elmore. “Logician Computational Cognitive Modeling of Infinitary False Belief Tasks”. In: *Proceedings of the 41th Annual Meeting of the Cognitive Science Society, CogSci 2019: Creativity + Cognition + Computation, Montreal, Canada, July 24-27, 2019*. Ed. by Ashok K. Goel, Colleen M. Seifert, and Christian Freksa. cognitivesciencesociety.org, 2019, pp. 43–44. URL: <https://mindmodeling.org/cogsci2019/papers/0022/index.html>.
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- [7] Naveen Sundar Govindarajulu, Selmer Bringsjord, and Matthew Peveler. “On Quantified Modal Theorem Proving for Modeling Ethics”. In: *Proceedings of the Second International Workshop on Automated Reasoning: Challenges, Applications, Directions, Exemplary Achievements, ARCADE@CADE 2019, Natal, Brazil, August 26, 2019*. Ed. by Martin Suda and Sarah Winkler. Vol. 311. EPTCS. 2019, pp. 43–49. DOI: [10.4204/EPTCS.311.7](https://doi.org/10.4204/EPTCS.311.7). URL: <https://doi.org/10.4204/EPTCS.311.7>.
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- [1] Atriya Sen, Selmer Bringsjord, Naveen Sundar Govindarajulu, Paul Mayol, Rikhiya Ghosh, Biplav Srivastava, and Kartik Talamadupula. “Toward a Smart City Using Tentacular AI”. In: *Ambient Intelligence - 14th European Conference, Aml 2018, Larnaca, Cyprus, November 12-14, 2018, Proceedings*. Ed. by Achilles Kameas and Kostas Stathis. Vol. 11249. Lecture Notes in Computer Science. Springer, 2018, pp. 106–112. DOI: [10.1007/978-3-030-03062-9_9](https://doi.org/10.1007/978-3-030-03062-9_9). URL: https://doi.org/10.1007/978-3-030-03062-9_9.
- [2] Selmer Bringsjord, Naveen Sundar G., Bertram F. Malle, and Matthias Scheutz. “Contextual Deontic Cognitive Event Calculi for Ethically Correct Robots”. In: *International Symposium on Artificial Intelligence and Mathematics, ISAIM 2018, Fort Lauderdale, Florida, USA, January 3-5, 2018*. 2018. URL: <https://isaim2018.cs.ou.edu/papers/ISAIM2018%5CEthics%5CBringsjord%5Cetal.pdf>.
- [3] Naveen Sundar Govindarajulu, Rikhiya Ghosh, and Selmer Bringsjord. “Extending Formal Models of the Doctrine of Double Effect with Emotions”. In: *International Symposium on Artificial Intelligence and Mathematics, ISAIM 2018, Fort Lauderdale, Florida, USA, January 3-5, 2018*. 2018. URL: <https://isaim2018.cs.ou.edu/papers/ISAIM2018%5CEthics%5CGovindarajulu%5Cetal.pdf>.
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- [2] Nisar Ahmed, Paul Bello, Selmer Bringsjord, Micah Clark, Bradley Hayes, Christopher Miller, Frans A. Oliehoek, Frank Stein, and Matthijs T. J. Spaan. “The 2015 AAAI Fall Symposium Series Reports”. In: *AI Mag.* 37.2 (2016), pp. 85–90. DOI: [10.1609/aimag.v37i2.2661](https://doi.org/10.1609/aimag.v37i2.2661). URL: <https://doi.org/10.1609/aimag.v37i2.2661>.
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