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GA Abbo, G Desideri, T Belpaeme... - ... on Human-Robot ..., 2025 - ieeexplore.ieee.org

... a **social robot** deployed in a home, this work aims to understand how everyday users try to exploit a **language model** to violate ethical principles, such as by prompting the **robot** to act ...

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Machine Learning Techniques for Socially Intelligent Robots

T Zhao - Psychomachina, 2024 - journal.scidacplus.com

... These algorithms are trained on **large** datasets of emotional ... Advanced **language models**, such as those based on transformer architectures, enable **robots** to grasp nuances in **language**...

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Conversational agents in human-machine interaction: reinforcement learning and theory of mind in language modeling

N Brandizzi - 2024 - iris.uniroma1.it

... misalignment of modern **Large Language Models**. Initially, we ... In symbolic reasoning, we might set explicit rules for a **robot**, ... a specialized **sub**-field within HMI, termed Human-**Machine** ...

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Leveraging large language models in human-robot interaction: A critical analysis of potential and pitfalls

J Atuhurra - arXiv preprint arXiv:2405.00693, 2024 - arxiv.org

... of **social robots** that are studied in HRI research (RQ1) and also discussed the applications of **social robots** (... in a conversation; **reinforcement learning** which trains **models** to optimize ...

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Generative expressive robot behaviors using large language models

K Mahadevan, J Chien, N Brown, Z Xu... - ... on Human-Robot ..., 2024 - dl.acm.org

... **reinforcement learning** agents [22, 48]. Research has also shown that LLMs can enable ... Jessie: Synthesizing **social robot** behaviors for personalized neurorehabilitation and beyond. In ...

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The potential of Large Language Models for social robots in special education

E Voultsiou, E Vrochidou, L Moussiades... - ... in Artificial Intelligence, 2025 - Springer

... LLMs are **machine learning models** with **large** architectures, ... after being trained with **large language** datasets, namely ... 50s, the first rule-based **language model** was presented by IBM-...

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Social Bots Meet Large Language Model: Political Bias and Social Learning Inspired Mitigation Strategies

J Piao, Z Lu, C Gao, Y Li - Proceedings of the ACM on Web Conference ..., 2025 - dl.acm.org

... **social bots** and LLMs, shifting the focus from traditional **social bots** to emerging LLM-driven **social** agents... This study emphasizes the human-like **social** aspects of LLMs and their agents, ...

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An Empirical Design Justice Approach to Identifying Ethical Considerations in the Intersection of Large Language Models and Social Robotics

A Markelius - arXiv preprint arXiv:2406.06400, 2024 - arxiv.org

... **Large Language Models** (LLMs) in **social robotics** presents a unique set of ethical challenges and **social** ... Using LLMs for **social robotics** may provide benefits, such as enabling natural ...

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Between reality and delusion: challenges of applying large language models to companion robots for open-domain dialogues with older adults

B Irfan, S Kuoppamäki, A Hosseini, G Skantze - Autonomous Robots, 2025 - Springer

... **robots** can alleviate this issue by providing daily **social** support. **Large language models** (LLMs) ...), where a **model** of human raters is used during **reinforcement learning** to optimize the ...

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Signalling and social learning in swarms of robots

L Cazenille, M Toquebiau... - Philosophical ..., 2025 - royalsocietypublishing.org

... **reinforcement learning** and **language models**—to provide an ... as **learning** the action policy, resulting in **robots** developing **sub**-... that is based on a **large language model** (LLM), enabling ...

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