

As of late 2025, Google AI refers to the specialized division of Google DeepMind that develops and integrates artificial intelligence across Google's global ecosystem. [🔗](#)

Core Consumer AI Tools

- **Gemini (Assistant):** This is the primary AI assistant used for various tasks. These include drafting emails and complex reasoning. As of December 2025, the latest models include **Gemini 3 Pro** and **Gemini 3 Flash**.
- **Google Search AI:** It includes **AI Overviews** for quick summaries and a dedicated **AI Mode** for deep exploration and reasoning directly within Search.
- **Creative Tools:** **Nano Banana** and **Nano Banana Pro** are used for image and video generation. **Pixel Studio** creates custom AI stickers.
- **Specialized Assistants:** **NotebookLM** is used for research and learning. **Jules** is an AI agent that assists developers with coding workflows. [🔗](#)

Subscription Tiers (December 2025)

Google offers advanced AI features through its Google One subscription model: [🔗](#)

- **Google AI Pro (\$19.99/mo):** It provides expanded access to Gemini 3 Pro, Deep Research tools, and 2 TB of cloud storage.
- **Google AI Ultra (\$249.99/mo):** This tier features 30 TB storage and the most advanced model capabilities.
- **Holiday Promotion:** As of December 25, 2025, new users can get annual plans for AI Pro and several Google One tiers at a **50% discount**. [🔗](#)

Developer and Enterprise Platforms

- **Vertex AI:** This is Google Cloud's platform for businesses to build, deploy, and manage machine learning models and AI agents.
- **Google AI Studio:** It is a web-based tool for developers to prototype with the Gemini API and experiment with text, image, and video models.
- **Google AI Edge:** It provides low-code APIs (like MediaPipe) to build AI features into mobile and web apps for vision, audio, and text tasks. [🔗](#)

Research and Ethics

Google's research continues in areas like **Quantum AI**, climate sustainability, and medicine. All developments are governed by the [Google AI Principles](#), which prioritize socially beneficial applications and safety. [🔗](#)

AI can make mistakes, so double-check responses



I want to sort a group of articles into the following framework: Updated Concept Mapping...

The provided text introduces an "Updated Concept Mapping" framework for understanding Human-Robot Interaction (HRI), categorizing research into three main pillars: Anthropomorphic Connection / Kinship, Social Comfort / Trust, and Safety. It lists several research articles as examples within this framework. You can find more information about this framework and the listed articles within the context provided.

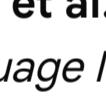
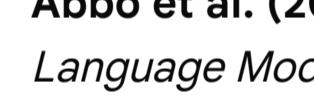


Table 63 Updated Concept Mapping December 25th
Updated Concept Mapping...

Based on your framework, here is the sorting of the requested articles into the relevant conceptual columns.

1. Anthropomorphic Connection / Kinship

Focus: Mental state attribution, empathy, attachment, and humanization.

- **Abbo et al. (2025):** "Can you be my mum?": Manipulating Social Robots in the Large Language Models Era. (Explores **attachment theory** and fictive kinship via LLMs).
- **Ahn (2014):** Designing of a Personality Based Emotional Decision Model... (Directly relates to **mind attribution** by giving robots "emotions" and "personality").
- **Bartneck et al. (2009):** Measurement instruments for anthropomorphism, animacy... (Godspeed Scale). (The foundational tool for measuring **humanization** and animacy).
- **Bagheri et al. (2021):** A reinforcement learning based cognitive empathy framework... (Aligns with the **empathy** category/robot-human emotional mirroring).

2. Social Comfort / Trust

Focus: User acceptance, sociability, warmth, and reliable functioning.

- **Arora et al. (2024):** Managing social-educational robotics for students with ASD... (Relates to **social integration** and the specific **user acceptance** of vulnerable populations).
- **Andriella et al. (2022):** Introducing CARESSER: A framework for in situ learning robot social assistance... (Focuses on **competence** and **reliable functioning** in assistive social contexts).
- **Atuhurra (2024):** Leveraging large language models in HRI: A critical analysis of potential and pitfalls. (Addresses **willingness to cooperate** and the boundaries of trust).
- **Anglim & O'connor (2019):** Measurement and research using the Big Five, HEXACO... (Relevant for measuring **interpersonal warmth** and personality traits in HRI).

3. Safety

Focus: Perceived security, ethical implications, moral value, and vulnerability.

- **Bandura et al. (1996):** Mechanisms of Moral Disengagement... (Already categorized in your framework under **Ethical implications** and safety boundaries).
- **Bardzell (2010):** Feminist HCI: taking stock and outlining an agenda... (Aligns with the **Perceived security** and power structure disentanglement seen in Winkle et al., 2023).
- **Azizian et al. (2025):** Multimodal LLM vs. Human-Measured Features... (Relates to **appropriate trust/over-reliance** and the safety of AI-driven diagnostic predictions).

Psychological Context (Supportive Material)

The following articles provide the psychological basis for the behaviors (like submissiveness or intimidation) that trigger the framework categories:

- **Anikin et al. (2024):** Loudness in vocal intimidation (Impacts **perceived security**).

- **Allan & Gilbert (1994, 1995, 1997):** Studies on submissive behavior and social comparison (Essential for understanding the **dominance/submissiveness** mapping mentioned in Ratajczyk, 2024).

- **Ali (2021):** Towards a Bad Bitches' Pedagogy. (Connects to **social justice/equity** and the deconstruction of traditional HRI hierarchies).

1 2 22 sites

Google AI Plans with Cloud Storage
It seamlessly navigates websites to power through... ▶ 0:09

Google One ·

Google AI powers many of Pixel's helpful features
Built-in AI helps you do more, faster than ever. * play_arrow. Use Gemini t... Google Store

Google's year in review: 8 areas with research breakthroughs in 2025
Dec 22, 2025 — Basic explainer. Google had a super productive year... blog.google

Show all

