

Will the Artificial Mind Have No Gender?*

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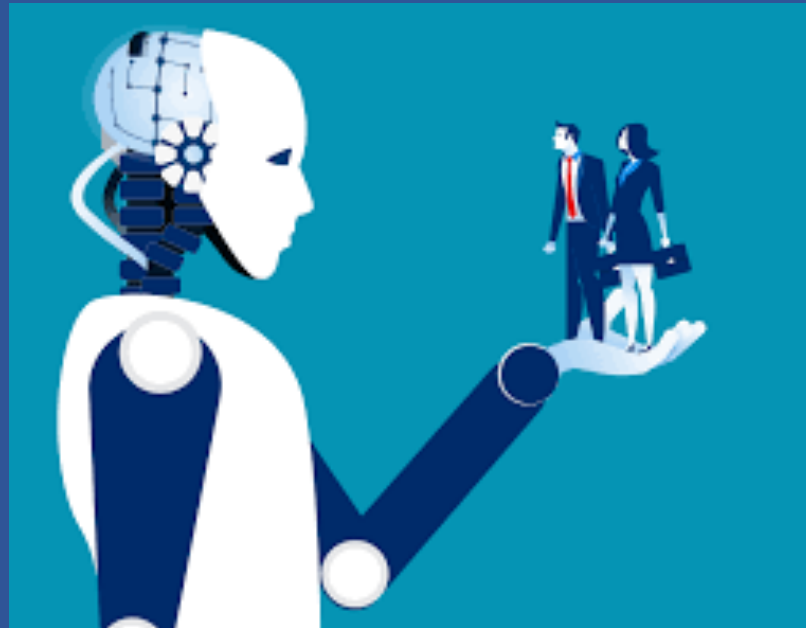


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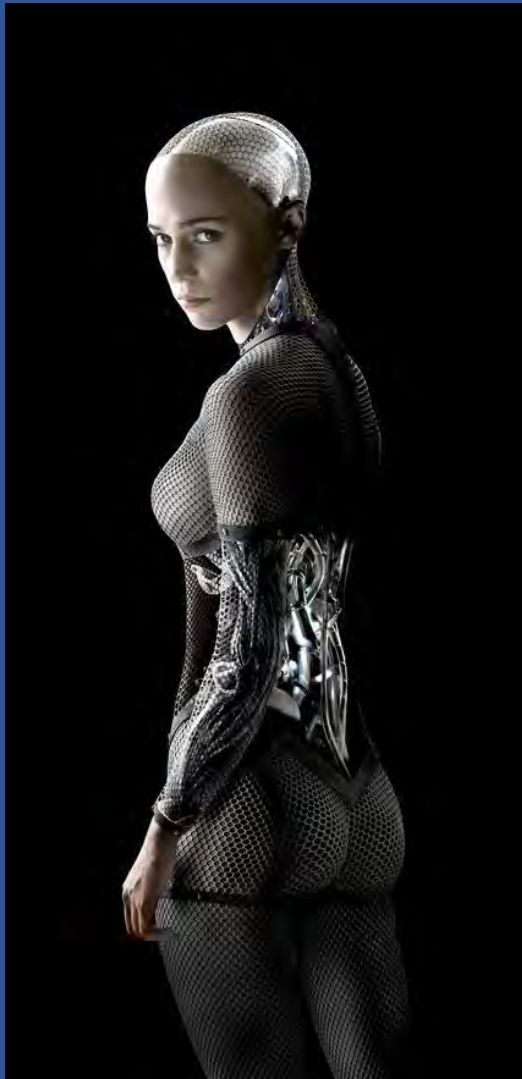
**Based on the author's work to be published in the forthcoming journal AI Humanities in Korea.*

1. Gendered AI on the Market

- Digital assistants, predominantly or by default female
 - (a) voice of 'a helpful, young Caucasian female' (Hardy, 2016)
e.g. Siri, Cortana, Google Assistant→male 'option' added
 - (b) reflect/reproduce gender stereotype of 'secretary'
 - (c) routinely exposed to verbal sexual abuse

2. Gendered AI Imagined

- AI characters in cinema, more females than males after 2000 (Schnoebelen, 2016)
e.g. Samantha in *Her* (2013), Ava in *Ex Machina* (2014)
- *Caleb* 'Why did you give her sexuality? An AI doesn't need a gender. She could have been a grey box.'
Nathan 'Actually I don't think that's true. Can you give an example of consciousness at any level, human or animal, that exists without a sexual dimension?' (*Ex Machina*)



Ex Machina (2014)



I'm Not a Robot
(2018 TV drama, Korea)

3. Misogyny in

(a) Projects fear of a potentially monstrous
onto the (monstrous) female (body)
e.g. *Ava*, *femme fatale*, manipulative & murderous

(b) Pitches female AI on par with boys & puppies
e.g. Pepper & Aibo
→ helpful, harmless vs. subordinate, subhuman



4. Tay, Machine Learning, and AI Bias



Supervised machine learning algorithm

→ Human abuse or inherent problems of machine learning?

- AI screenings in job, college, loan applications
→ Eliminate discrimination by replacing human agents?
- **AI bias**, external or internal to AI technology?
World Economic Forum: 'anything described in text, in image or in voice requires information processing—and this will be influenced by cultural, gender or race biases' (Büchel, 2018)
- AI researchers, push for *unsupervised* machine learning as ultimate means to eliminate human agency
→ **NO AWARENESS about gender discrimination in/of/by AI technology itself**

5. 'Little Boy' or Male Parthenogenesis

- AI male workforce in US: 76% (in CIS degrees)
81% (in C-level jobs)
- Study in AI or robot gender perception among cyberneticists (Ferrando, 2014)

Q. Pronoun for a robot?

A. 'It' 81 / 'he' 10 / 'she' 0 (out of total 100)

→ AI researchers view AI as (a) gender-neutral and/or (b) free from gender discrimination

→ Gender-neutral only like the Vitruvian Man (Braidotti, 2013)

- Modern science's obsession/dream about 'creating symbolic [male] progenies'
 - =Bacon's 'Masculine Birth' of the new philosophy (1603)
 - =Frankenstein's creation of the Monster (1818)
 - =Manhattan Project's 'Little Boy' and 'Fat Man' (1945)

Conclusion

- Gender inheres in human (i.e. embodied) minds/subjectivity and there is no evidence to intuit otherwise for artificial minds.
 - Current AI models are reproducing/reinforcing, not reducing, gender stereotypes and discrimination.
 - The collective mind of AI technology and industry is strongly male and unaware of its own gender bias.
 - Machine learning algorithms work with biased data and are already causing human consequences.
- Real issues that demand prior attention and action *now*, over the Singularity or emergence of artificial superintelligence!

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