

Researchers investigate ethical side of AI impacts on meaningful work

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Professor Paul Formosa, pictured, says regardless of future AI advancements, humans will still be needed in workplaces for exercising judgement, being creative, communicating well and interacting with stakeholders. Credit: Macquarie University

Artificial intelligence threatens to dramatically change the work we do and how our workplaces operate. Macquarie University researchers examine some vital ethical questions raised by this new technology.

As the use of [artificial intelligence](#) in the workplace accelerates, the future of "meaningful work" comes under the microscope.

Meaningful work is employment that has worth, significance or a higher purpose. Ideally, it should be engaging, varied, require the use of complex skills, benefit others and be freely chosen.

AI is the ability of computers and other artificial entities to do tasks that would, were a human to do them, require intelligence. For example, the ability to reason, plan, problem solve and learn from experience.

The impact of AI on meaningful work is both significant and mixed, say Associate Professor Sarah Bankins and Professor Paul Formosa in their paper, "The Ethical Implications of Artificial Intelligence (AI) For Meaningful Work," published in the *Journal of Business Ethics*.

AI has the potential to make work more meaningful for workers by undertaking less meaningful tasks for us and amplifying our capabilities, say the authors. But it can also make work less meaningful for others by creating new, boring tasks, restricting worker autonomy and unfairly directing the benefits of AI away from the less skilled.

Providing meaningful work is ethically important, state Bankins and Formosa, as it "respects workers' autonomy and their ability to exercise complex skills in helping others, contributes to their well-being and allows them to flourish as complex human beings."

Embedded with the frenemy

The Stanford University [2023 AI Index Report](#) shows that technology and telecom sectors, [financial services](#) and business, legal and professional services are embedding AI in at least one business function.

AI is also making its presence felt in frontline professions such as nursing and teaching.

"We see it helping to manage patient flow and administration in hospitals and to power chatbots for on-demand customer service," says Bankins. "AI also promises many benefits for education, such as enhancing personalized learning and feedback."

Probing the links between AI and meaningful work, she says, "can help organizations more strategically think about their use of AI and what it means for their workers' experience of meaningful work."

Missing from a discussion about the relationship so far has been the question of ethics. So where do ethics sit in the AI world of meaningful work?

"To see your life as meaningful is to see it as rich, valuable and worth living, and that is clearly of ethical significance," says Formosa, a philosopher.

"While we derive a sense of meaning from many things, such as our relationships with other people and our hobbies and interests, an important source of meaningfulness for many people is the work that they do. Work allows us to exercise and hone our skills for the benefit of others, while developing rich relationships with co-workers.

"AI threatens to dramatically change our workplaces and the work that we do, and it therefore raises important ethical questions concerning what we should do about it," he says.

It is not enough to just look at what AI is being used for. Instead, Associate Professor Baskins and Professor Formosa say we need to look at what is left—or what new work there is—for human workers to do in

order to understand the implications for meaningful work.

For example, if a hospital uses machine learning to help manage patient flow and minimize patient wait times this should free up staff to do other things.

"But what other things? This is where thinking about job design is important," says Baskins. "Can those staff now do work that is more interesting, better uses their skills or gives them more interaction time with patients? Or will they be given other similar work which does not change their job a great deal, or will they be given more boring and menial work which changes their job for the worse?"

Accepting AI in the workplace takes time, she says. There is a lot of fear around what new technologies mean for humans.

"For me, helping staff transition to more AI-enabled workplaces means educating and informing workers, designing AI-augmented jobs well and being clear about what working with AI will mean for people's jobs—and having a supportive organizational culture."

Banking on human bias

While many companies mention or claim to endorse ethical AI guidelines, says Formosa, it is one thing to make claims about wanting to be ethical and another to follow through when there are large financial interests at stake.

For example, several AI firms have played up the potential apocalyptic dangers of rogue AI, but this can sideline the more "mundane" dangers of misinformation and bias, appropriation of training data or privacy violations which may impact their bottom lines.

Arriving at an optimum ethical deployment of AI requires weighing up costs and benefits. There are some things workplaces will always need humans for, however.

"Even as AI can do more and more impressive things, at least in the foreseeable future I believe humans will retain unique and needed skills in the world of work," says Baskins.

"For example, exercising their judgment, being creative, communicating well and interacting with stakeholders, critiquing and contextualizing the outputs of new technologies, and other tasks and roles that we haven't imagined yet."

Formosa cites evidence that people have a "human bias," preferring to interact with other humans rather than AI.

"AI can tend to be 'brittle' and perform poorly in novel situations outside its training data, which means humans are needed to 'sense check' its outputs in critical contexts," he says. "But researchers are already working on ways to make our interactions with AI more 'human' and improve AI's robustness."

More information: Sarah Bankins et al, The Ethical Implications of Artificial Intelligence (AI) For Meaningful Work, *Journal of Business Ethics* (2023). [DOI: 10.1007/s10551-023-05339-7](https://doi.org/10.1007/s10551-023-05339-7)

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