

here are sound reasons for this gap. A wide range of advanced technologies has burrowed deeply into organizational processes during the past decade, and most of these advancements pose unique risks and ethical dilemmas. Big data, analytics and the proliferation of IOT sensors, can pose serious threats to consumer privacy and financial security, as the Experian hack and similar incidents have demonstrated. Industrial robotics on the shop floor and robotic process automation (RPA) in the back office can put human workers out of jobs, raising questions about organizations' responsibilities to retrain displaced employees.

The above risks largely stem from the mismanagement of those technologies. AI and machine learning pose different risks and ethical quandaries because these technologies turn over varying amounts of human decision-making to software programs. This exciting but daunting capability has some business and academic leaders sounding warnings. Last summer, thousands of global AI academics and business leaders, including Elon Musk and Steve Wozniak, signed an open letter regarding AI military applications that called for a ban on "offensive autonomous weapons" that operated "beyond meaningful human control."

In the business realm, there exists substantial wiggle room between what current laws and regulations prohibit regarding technology usage and what companies can do with that technology. That's why the Data & Marketing Association sends a crystal clear directive to its members: "Do not do just what is legal, but do what is right."





espite these hurdles,

technology ethics awareness, discussions and frameworks are advancing in business—and within universities grooming future leaders. University of Notre Dame's John J. Reilly Center for Science, Technology and

Values publishes an annual list of emerging ethical dilemmas and policy issues in science and technology. The annual Baylor University Dale P. Jones Business Ethics Forum has examined a wide range of ethical issues, including technology, for the past dozen years.

The IEEE (Institute of Electrical and Electronics Engineers), the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity, is undertaking a massive effort to establish a framework for ethical considerations for technology developers and product designers. More of these efforts, and progress, is needed if real ethical guidelines are to be consistently applied to the science fiction-esque technologies most companies are implementing.

In a column published in a 1981 issue of Compute! magazine, Asimov acknowledged that his fictional "Three Laws of Robotics" were routinely cited, "quite seriously," in non-fiction publications as a model of conduct that technology developers should follow. Although he protested that his three laws were obvious, Asimov confirmed they were highly applicable to real-life technology activities. He emphasized that his laws were "the only way in which rational human beings can deal with robots." He concluded with a sober warning that also remains valid today: "...I always remember (sadly) that human beings are not always rational."

Happily, business leaders and other human beings are more apt to behave rationally and ethically when the right guidelines are in place. Getting them there does not require technological wizardry but good, old-fashioned character, commitment and collaboration.

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