Ethical AI Challenges

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The workshop will be the 1st annual workshop on Ethical AI Challenges and will be a chance for researchers working within the field of Ethical AI to share recent research and discuss contemporary issues.

Contributions will be invited from a diverse range of interdisciplinary fields, included, but not limited to, neural networks, machine learning, machine ethics, philosophy of ethics, developmental psychology and cognitive science.

The workshop will be a half day, and will have the format of invited presentations followed by discussions. The key objectives of the workshop will be the following:
- Introduce different challenges in Ethical AI to a broad audience
- Receive opinion on Ethical AI challenges from an interdisciplinary group
- Combine expertise to solve contemporary challenges
- Propose future direction for research in the field

The workshop relates to the IJCNN because it involves challenges posing many neural network specialists. Ethics is at the forefront of much neural network research, and there is a requirement for future AI to be designed ethically. Neural network techniques have also been applied in attempting to create autonomous ethical AI.

Contributors will be invited, after the workshop, to submit a paper for a special edition journal centred on Ethical AI. The journal issue will be a showcase of contemporary challenges within Ethical AI.

The ethics of artificial intelligence is becoming an increasingly important area within the discipline of computer science and machine learning. As computers become ever so increasingly complex, and algorithms more powerful and sophisticated, there is a requirement for these systems to have greater ethical governance. Ethical AI is a broad discipline that covers data ethics, ethical management of systems and autonomous moral machines. It has become ever more important that experts within neural networks understand this area. As an emerging field, there are opportunities for experts working in this area to share ideas and collaborate.

The target audience will be academics and researchers working in any area related to ethical AI, or with an interest in ethical issues surrounding AI. The estimated number of presenters will be 2, followed by breakout activity and group presentations. Expected number of attendees is 30.

The workshop will last half a day and will involve 3 40 minutes presentations followed by a plenary discussion. The format of the day will be the following:

9.20 – Welcome
9.30 – 10:20 key note presentation followed by questions/answers
10.20 – 11.20 breakout session in groups
11.20 – 11:30 coffee break
11.30 – 12:00 presentations from groups
12:00 – 12:50 key note presentation followed by questions/answers