Call for Papers
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Special Issue: Trust in AI

Special Issue Guest Editors:
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This special issue on Trust in AI is dedicated to exploring the issue of how to improve understanding of the appropriate level of trust in AI-based systems among AI practitioners, users and broader society.

AI-based systems are becoming increasingly pervasive in modern society. Their influence extends from movie recommendations to mine optimisation, from border security to financial securities, from driver assistance to medical assessments. All of these applications bring with them different requirements in relation to, and definitions of, trust.

We welcome high quality submissions on issues of Trust in AI systems including, but not limited to:
* Trust in their level of performance - End to End Real World Performance Testing for AI Systems.
* Trust that they're making decisions for the correct reasons - Explainable AI (XAI).
* Trust in our ability to correct errors - Repairable AI and Lifelong Learning.
* Trust in their integrity - Cyber Security challenges faced by AI systems.
* Trust in our ability to oversee them - Oversight and Anomaly Detection for AI in Complex Tasks and Environments.
* Trust definitions, requirements and capabilities - Semantics and Definitions for Requirements Analysis around Trust in AI.

Applications of interest include, but are not limited to:
* Technologies for assisting human drivers, operators and other controllers.
* Collaborative and autonomous robots.
* Service, entertainment and other robots in broader society.
* Industrial optimisation.
* Medical sensing, smart sensors and diagnosis.
* Applied image and sensor understanding, recognition and analysis.
* Recommendation, diagnosis and decision support systems.
* Safety, security and mission critical systems across cyber, cyberphysical and physical domains.
* Big data analytics.
* AI in finance, trading and assignment of resources.

Formats that we consider include:
* Short and full length technical papers.
* Reports on research projects.
* Discussion pieces.
* Dissertation abstracts.
* Conference/workshop reports and survey papers.
* Industry papers (AI Market).

See Instructions for Authors for the requirements for each of these formats.

For comments, suggestions or requests please send email to Raymond Sheh raymond.sheh@curtin.edu.au.

Important Dates
* 15 June 2018, deadline for submissions
* 15 Jul 2018, notification of acceptance
* 15 Aug 2018, final version due

Contact