Research funding is a complex process of balancing political, economic, and scientific interests to determine whether to provide funding and in what fields. Advances in AI have the potential to transform the nature of scientific inquiry and lead to innovations in science and engineering.

### Setting the Research Agenda
AI could be used to determine research priorities, design funding opportunities, and identify gaps before funding awards could optimally consider R&I trends for predicted high impact.

### Pre-Screening, Eligibility Review, and Pre-Peer Review
AI could streamline the time-consuming administrative tasks that are prone to human error and prevent peer reviewers from making decisions based on unconscious biases rather than scientific merit.

### Peer Review
AI can identify connections among scientists, screen for potential conflicts of interest, and may be better at predicting the impact of proposed proposals than human reviewers.

### Grant and Award Decision Making
AI can manage high volumes of data, process data quickly and accurately, and help to remove inconsistencies throughout the research funding cycle.

### Post-Grant Management
AI and its applications may help in research forward and monitor research programs.

### Artificial Intelligence in the Research Funding System

**Leaps and Boundaries**

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