

UNITED STATES
PATENT AND TRADEMARK OFFICE



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Artificial intelligence (AI) tools for patents at the USPTO

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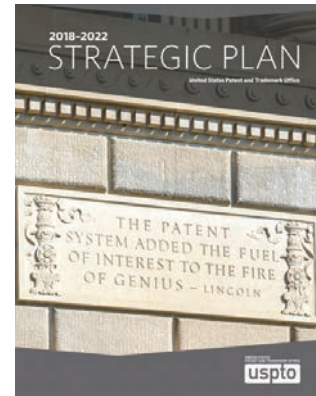
March 24, 2021



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Artificial intelligence strategy

- 2018-2022 USPTO Strategic Plan:
 - Optimize development and delivery of information technology tools, including artificial intelligence and machine learning, for internal users of patent systems to ensure that they have the tools they need for a thorough search and examination.*



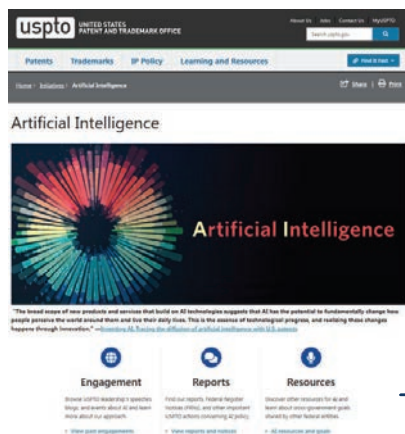
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* Goal 1: Optimize patent quality and timeliness; Objective 3: Foster innovation through business effectiveness

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USPTO AI landing page



www.uspto.gov/initiatives/artificial-intelligence

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Artificial intelligence resources



Find a collection of resources devoted to shaping the Administration's and federal government's approach to artificial intelligence (AI).

USPTO directly engages with the following

- **Administrative Conference of the United States (ACUS) CP**
 - Charged with convening expert representatives from the public and private sectors to recommend improvements to administrative process and procedure. The Office of the Chairman of the Administrative Conference is exploring the growing role that AI such as machine learning and related techniques is playing in federal agency adjudication, rulemaking, and other regulatory activities.
- **IPS New Emerging Technologies and Artificial Intelligence Task Force (IPS-NEAT-ITF) CP**
 - Coordinates IPS initiatives and is developing a roadmap for possible joint projects in these areas among the IPS member offices.
- **National Science and Technology Council (NSTC) Machine Learning and Artificial Intelligence Subcommittee (MLAI) CP**
 - The interagency group oversees AI coordination among federal agencies. The USPTO actively participates in the MLAI to ensure intellectual property equities are accounted for during interagency discussions.
- **Networking and Information and Technology Research and Development (NETRI) Program: Artificial Intelligence Research and Development Interagency Working Group (AI R&D IWG) CP**
 - Coordinates federal AI R&D across 32 participating agencies and to support activities tasked by both the NSTC Select Committee on AI and the Subcommittee on Machine Learning and Artificial Intelligence (MLAI). AI R&D IWG gathers information from AI experts to ensure that government investment in AI R&D results in innovative applications to address the nation's challenges, advance its opportunities, and promote U.S. leadership and global competitiveness.
- **National Security Commission on AI (NSC-AI) CP**
 - An independent commission stood up by Congress to "consider the methods and means necessary to advance the development of artificial intelligence, machine learning, and associated technologies by the United States to comprehensively address the national security and defense needs of the United States."
- **US-UK Artificial Intelligence R&D Collaboration CP**
 - A working group comprised of representatives from agencies within the United States and the United Kingdom. The goal of this group is to oversee the initial implementation of the signed agreement between the US and the UK, including identifying and defining specific topic areas for R&D collaboration.

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Recent AI policy developments

- Administrative Conference of the United States (ACUS) published a [statement on government agency use of AI](#)
 - Identifies issues agencies should consider when adopting or modifying AI systems



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AI priorities for patents

- Patent search
 - AI search prototype tool
 - Exploring image search
- Patent classification
 - Cooperative Patent Classification (CPC) symbols
 - Indicators for claimed subject matter



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Title search: Artificial Intelligence (AI) Tools for Patents at the USPTO

First appeared as part of the conference materials for the
16th Annual Advanced Patent Law Institute session
"AI Tools for Patents at the USPTO"