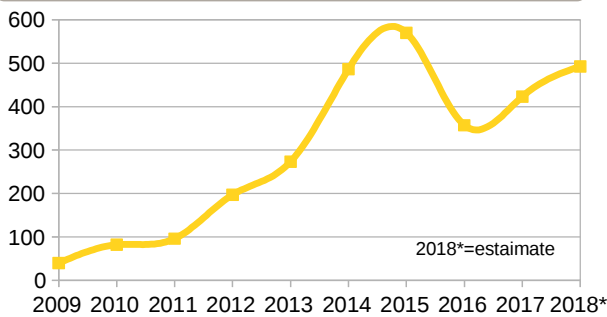
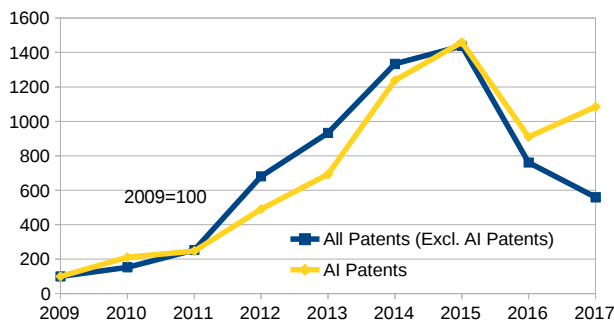


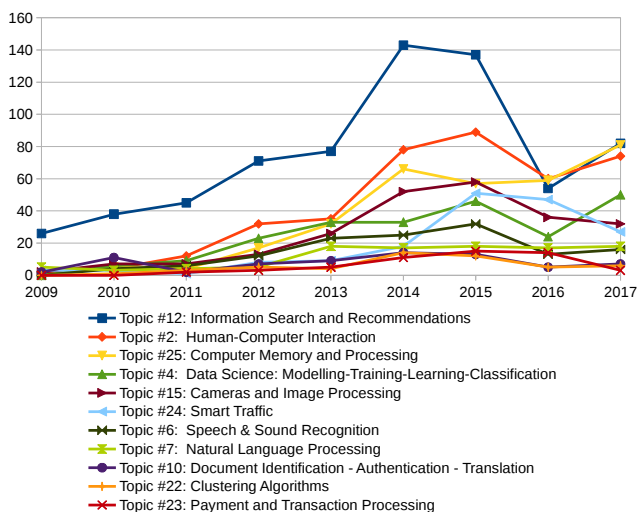
AI PATENTS 2009-2018



AI vs OTHER PATENTS



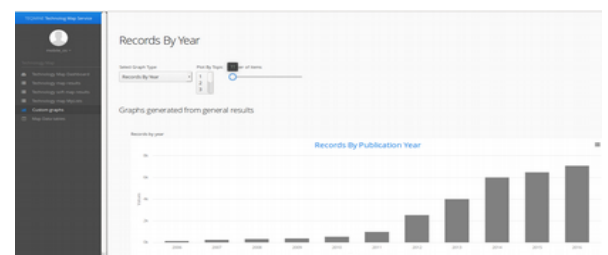
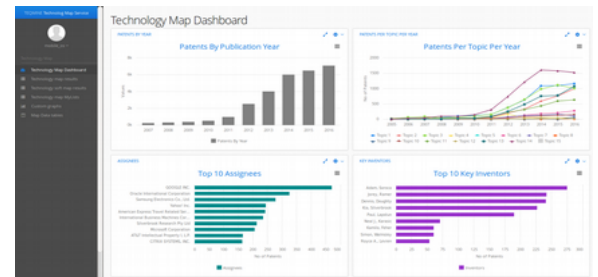
AI PATENT FOCUS



- **Google's AI strategy** is to create **strong capabilities and patent positions in core data science and computer technology** areas.
- If successful, Google's AI technology and patents will have **implications across wide range of technologies and business**.
- Google's **AI patent effort increases currently faster than Google's other patenting**, and the difference is increasing, demonstrating AI's importance for it.
- Google aims to create enabling and platform technologies, and AI directly applicable to specific business domains (e.g. smart traffic or payments) is of secondary importance.
- Google ranks currently among three largest AI patentees (2018 – prediction) with Microsoft and Samsung.
- Google has intensified significantly its AI innovation and patent effort in the last few years.
- AI patent effort is increasing currently, but it did dip significantly 2014-2016.
- AI is currently key innovation and patent area for the company, and its investment in the technology is likely to continue.
- Google's AI innovation ecosystem is heavily concentrated in the Silicon Valley, but includes hubs also in the UK, Switzerland and China.
- Overseas AI hubs are of declining importance for its patent effort.
- Note about data, sources and graphs: All data from TEQMINE's AI Technology Scan (May 2018). Patent data from USPTO/EPO/PCT.

ABOUT ARTIFICIAL INTELLIGENCE TECHNOLOGY SCAN

- **MONITOR AND ANALYZE EASILY** latest developments in *Artificial Intelligence*
- **UNIQUE WAY OF MONITORING** Traditional patent information methods will fail to capture accurately this diffuse innovation area
- **RECOGNIZE TROLLS AND NEW INNOVATIONS** regardless you know the company or not
- **THE AI FOR PATENT AND TECHNOLOGY INTELLIGENCE.** Based on TEQMINE's pioneering machine-learning techniques to read, classify and monitor patent information
- **ALMOST 200,000 AI PATENTS** and counting with monthly updates
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| Publication No. | Pub. Date | Title | Inventor | Invention Type | App. Date | Pub. Date | Assignee | Class. |
|-----------------|-----------|--|----------|----------------|-----------|-----------|---------------|--------|
| US20180202000 | 10/15/18 | Method of and apparatus for processing a GPU task using | ... | ... | ... | ... | United States | ... |
| US20180202000 | 10/15/18 | Technological and public intelligence management | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Mobile network (5G, internet, cellular, games and IoT network) | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Peer and quadtree based video (AV1, VP9, H.265, HEVC, AV1) | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | System for user interface and user interface management | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Method for content delivery optimization and delivery | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Processing pipeline system and method | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Self-organizing system | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | System for user interface and user interface management | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | One and two dimensional representation of mobile systems | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | System for user interface and user interface management | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Frequency based frequency modulation spread spectrum (FMSS) modula | ... | ... | ... | ... | ... | ... |
| US20180202000 | 10/15/18 | Network communication system | ... | ... | ... | ... | ... | ... |

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