Patent families

1997

1992

Al patents boom

2002

Top 5 applicants

2012

IBM
Microsoft
Toshiba
Samsung
NEC

2017

50,000

Al techniques

Neural networks

(e.g. used in machine translation)

46.1%

average annual growth 2013–2016

Deep learning

(e.g. used in speech recognition systems)

174.6%

average annual growth 2013–2016

Al applications

Patent fillings

Highest growth

Al for robotics

growth in patent filings between 2013 and 2016

Computer Vision

patent filings in 2016

Control methods

262%

growth in patent filings between 2013 and 2016

Al in industrial sectors

Highest orowth rates

in patent filings between 2013 and 2016



Transportation





