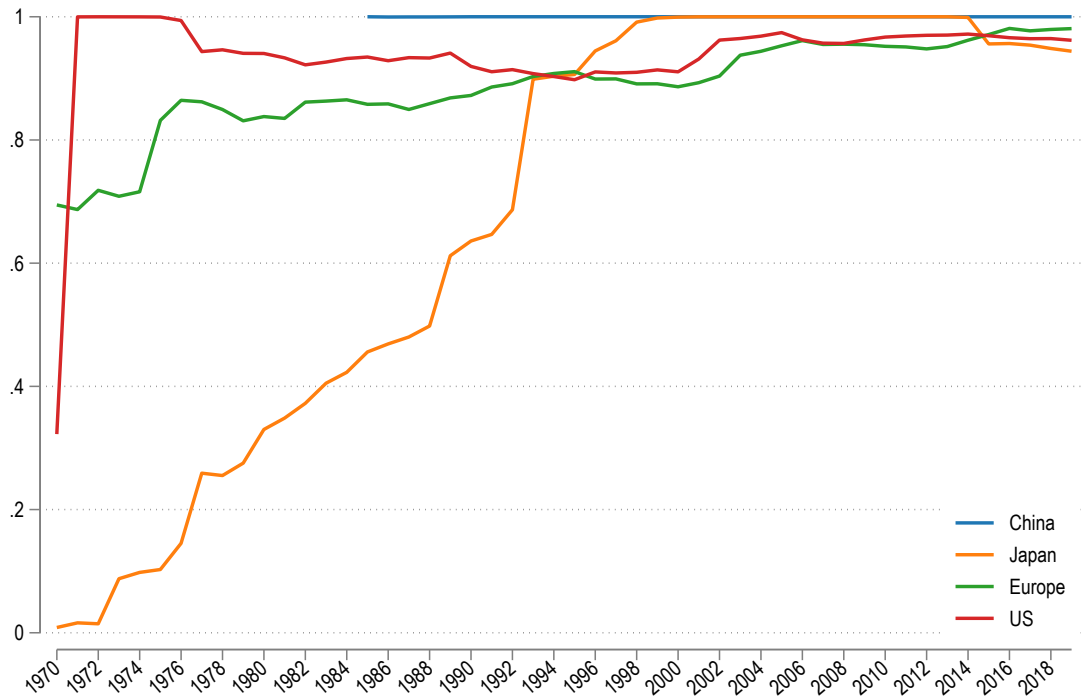


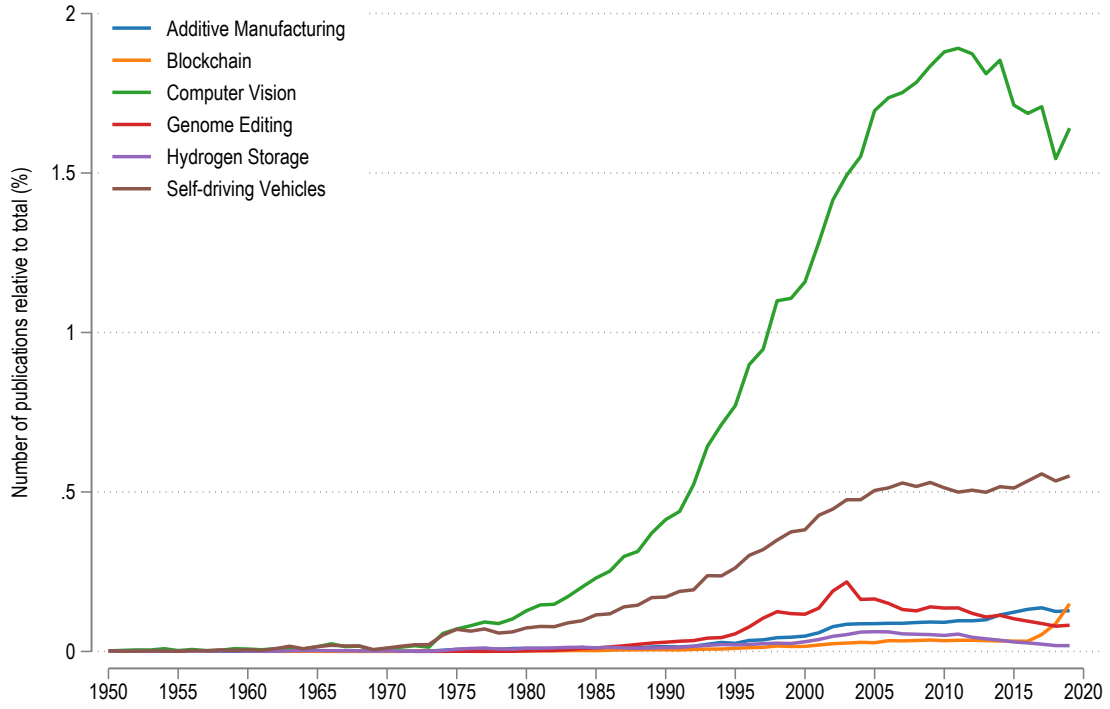
## S3 Additional results

Figure S3-1: Share of patent families with an abstract in English



**Notes:** Share of patents with at least one patent in the same family with an abstract in English in each of the four patent offices: USPTO (US), CNIPA (CN), EPO and European national patent offices (EP) and JPO (JP). The year of publication is reported in x-axis. European patent offices include the European Patent Office, as well as national patent offices of all EU countries, UK, Norway and Switzerland.

Figure S3-2: Number of patent publications by technology



**Notes:** Total number of patents published yearly at the US, Chinese, European and Japanese patent offices in each of the six technologies considered. This number has been standardized by the total number of patents published in these patent offices in any technology. The year of publication is reported in x-axis. European patent offices include the European Patent Office, as well as national patent offices of all EU countries, UK, Norway and Switzerland.

Table S3-1: Precision from simple rule-based classification

	Additive Manufacturing	Blockchain	Computer Vision
<b>CPC</b>	0.34 (224)	0.01 (458)	0.26 (298)
<b>Keywords</b>	0.16 (218)	0.09 (456)	0.20 (254)
<b>Patents</b>	0.02 (42)	0.09 (53)	0.4 (5)
	Genome Editing	Hydrogen Storage	Self driving Vehicle
<b>CPC</b>	0.05 (172)	0.14 (211)	0.12 (222)
<b>Keywords</b>	0.89 (158)	0.24 (221)	0.36 (239)
<b>Patents</b>	0.57 (7)	0.16 (32)	0.42 (24)

**Notes:** Precision computed on the test set - unseen during training using simple rule-based classification (either using only CPC, only keywords or similar patents from the set of manually added patents). Number in parentheses corresponds to the number of patents.

Table S3-2: 10 most cited articles by technology

	Additive manufacturing	Blockchain	Computer vision	Genome editing	Hydrogen storage	Self driving vehicle
1	<a href="#">10.1116/1.1412895</a>	<a href="#">10.1145/121133.121137</a>	<a href="#">10.1109/tcsvt.2003.815165</a>	<a href="#">10.1038/35078107</a>	<a href="#">10.1016/s0378-7753(97)02724-9</a>	<a href="#">10.4271/961010</a>
2	<a href="#">10.1021/ma60060a028</a>	<a href="#">10.1145/37499.37500</a>	<a href="#">10.1109/cvpr.2001.990517</a>	<a href="#">10.1093/emboj/20.23.6877</a>	<a href="#">10.1002/ceat.270100130</a>	<a href="#">10.3189/s0260305500002822</a>
3	<a href="#">10.1007/bfb0053286</a>	<a href="#">10.1145/50202.50214</a>	<a href="#">10.1109/iccv.2001.937709</a>	<a href="#">10.1101/gad.862301</a>	<a href="#">10.1016/s0360-3199(00)00021-5</a>	<a href="#">10.1049/cp.19960454</a>
4	<a href="#">10.1109/vlsit.2007.4339708</a>	<a href="#">10.1109/tcsvt.2003.815173</a>	<a href="#">10.1109/tcsvt.2003.815173</a>	<a href="#">10.1038/35888</a>	<a href="#">10.2172/460349</a>	<a href="#">10.1109/ivs.2000.898318</a>
5	<a href="#">10.1145/237170.237191</a>	<a href="#">10.1109/tcsvt.2003.815165</a>	<a href="#">10.1109/iccv.1999.790410</a>	<a href="#">10.1126/science.2315699</a>	<a href="#">10.1002/cjce.5450690503</a>	<a href="#">10.1109/imtc.2001.929558</a>
6	<a href="#">10.1145/311535.311556</a>	<a href="#">10.1109/2.16</a>	<a href="#">10.1007/bfb0053007</a>	<a href="#">10.1126/science.1231143</a>	<a href="#">10.1002/cjce.5450690504</a>	<a href="#">10.1109/irds.2002.1041378</a>
7	<a href="#">10.1145/37402.37422</a>	<a href="#">10.1109/tcsvt.2003.814963</a>	<a href="#">10.1016/b978-0-08-051581-6.50024-6</a>	<a href="#">10.1126/science.1232033</a>	<a href="#">10.1246/cl.1993.41</a>	<a href="#">10.1109/imtc.1999.776736</a>
8	<a href="#">10.1116/1.591000</a>	<a href="#">10.1109/dec.1998.672152</a>	<a href="#">10.1109/34.888718</a>	<a href="#">10.1038/332323a0</a>	<a href="#">10.1016/0360-3199(95)00131-x</a>	<a href="#">10.1049/cp.19980155</a>
9	<a href="#">10.1117/12.968423</a>	<a href="#">10.1145/989.990</a>	<a href="#">10.1109/tcsvt.2007.905532</a>	<a href="#">10.1038/327070a0</a>	<a href="#">10.1016/s0378-7753(97)02760-2</a>	<a href="#">10.1007/s10967-005-0069-2</a>
10	<a href="#">10.1002/pol.1979.170170410</a>	<a href="#">10.1109/tcsvt.2003.815175</a>	<a href="#">10.1889/1.3256703</a>	<a href="#">10.1038/313810a0</a>	<a href="#">10.1016/s0378-7753(97)02796-1</a>	<a href="#">10.1016/s0034-6667(99)00031-7</a>

Notes: Top 10 academic papers cited in the patents in each six technologies in the frontpage retrieved using PatCit [1].

## References

- [1] Gaétan de Rassenfosse and Cyril Verluise. PatCit: A Comprehensive Dataset of Patent Citations, March 2020. URL <https://doi.org/10.5281/zenodo.3710994>.