Computer Hardware Organizations
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Today’s computer hardware corporations deliver new patented technologies at an ever-increasing pace, based on research that is at the forefront of the industry. Patent references to IEEE papers have increased 842% since 1997 and recent studies of the top patenting companies show that IEEE scientific and technical articles are cited over 3 times more often than any other scholarly or commercial publisher.

IEEE: the Top-Cited Publisher in Computing
IEEE is the top scientific and technical source with patent citations in:

**Computer Hardware**
- IEEE: 34%
- Association for Computing Machinery (ACM): 7%
- Joint IEEE and ACM: 4%
- Other: 55%

**Information Storage**
- IEEE: 44%
- American Institute of Physics (AIP/AVS): 12%
- Association for Computing Machinery (ACM): 3%
- Other: 41%

*Percentage of patent citations 1999–2018
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Essential IEEE Content in Computer Hardware Technology
IEEE content remains crucial to the computer hardware industry—providing research in a wide variety of topics through the IEEE Xplore digital library.

<table>
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<tr>
<th>Topic</th>
<th>Documents</th>
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<tr>
<td>Grid Computing</td>
<td>16,700+</td>
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<td>Computer Vision</td>
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Counts are accurate as of June 2019 and include IEEE/IET and IBM content.
IEEE Leads Computer Hardware Technology

IEEE enables innovation as a leading developer and producer of content across a wide range of industries, from standards to conferences, eBooks, and eLearning courses for aspiring individuals and growing organizations. Below is a sampling of IEEE content.

Journals

—IEEE Transactions on Neural Networks & Learning Systems—#1 in Computer Science, Hardware & Architecture
—IEEE Wireless Communications Magazine—#2 in Computer Science, Hardware & Architecture
—IEEE Network—#3 in Computer Science, Hardware & Architecture
—IEEE Transactions on Dependable and Secure Computing
—IEEE Computer Architecture Letters
—IEEE Computer Graphics and Applications Magazine
—Computer Magazine
—IEEE Transactions on Computers
—IEEE Transactions on Games
—IEEE Design and Test Magazine
—IEEE Intelligent Systems Magazine
—IEEE Transactions on Knowledge and Data Engineering
—IEEE Micro Magazine
—IEEE/ACM Transactions on Networking

Source: 2018 Journal Citation Reports, (Clarivate Analytics, 2019)

IEEE Publishes Top-Cited Computer Content

—The top 4 journals in Computer Science, Hardware & Architecture
—18 of the top 20 journals in Telecommunications
—3 of the top 5 journals in Computer Science, Software Engineering

Source: 2018 Journal Citation Reports, (Clarivate Analytics, 2019)

Conferences

IEEE Annual International Symposium on Field-Programmable Custom Computing Machines
IEEE Conference on Engineering of Complex Computer Systems
IEEE International Conference on Cloud Computing
IEEE International Conference on Computational Intelligence and Computing Research
IEEE Symposium on Security and Privacy
International Conference on Advances in Electronics and Micro-electronics
NASA/ESA Conference on Adaptive Hardware and Systems

Standards

1413-2010  IEEE Standard Framework for Reliability Prediction of Hardware
1667-2009  IEEE Standard for Authentication in Host Attachments of Transient Storage Devices
1364-2005  IEEE Standard for Verilog Hardware Description Language

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