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Today’s automotive corporations deliver new patented technologies at an ever-increasing pace, based on research that is at the forefront of the industry. Organizations like Toyota, General Motors, Ford, and Honda all cite high proportions of IEEE literature in patents for new technology.

Patent references to IEEE papers have increased 963% 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 publisher.

Patent References from the Top 5 Publishers

<table>
<thead>
<tr>
<th>Publisher</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEEE</td>
<td>20%</td>
</tr>
<tr>
<td>Association for Computing Machinery (ACM)</td>
<td>15%</td>
</tr>
<tr>
<td>RELX Group (Elsevier)</td>
<td>12%</td>
</tr>
<tr>
<td>3GPP General Partnership Project Standards Body</td>
<td>10%</td>
</tr>
<tr>
<td>John Wiley &amp; Sons/Wiley-Verlag/Wiley-Liss</td>
<td>7%</td>
</tr>
</tbody>
</table>

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Essential IEEE Content in Automotive Technology
IEEE content remains crucial to the automotive industry—providing research in a wide variety of topics through the IEEE Xplore digital library.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid-Electric Vehicles</td>
<td>41,000+</td>
</tr>
<tr>
<td>Sensor Networks/Remote Sensing</td>
<td>194,200+</td>
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<tr>
<td>Mechatronics</td>
<td>57,100+</td>
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<tr>
<td>GPS</td>
<td>24,200+</td>
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<tr>
<td>Autonomous Vehicles</td>
<td>449,700+</td>
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<tr>
<td>Embedded Systems</td>
<td>41,400+</td>
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<tr>
<td>Cognitive/Agile/Software Defined Radio</td>
<td>30,700+</td>
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<tr>
<td>MEMS</td>
<td>32,800+</td>
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<tr>
<td>Adaptive Control</td>
<td>48,500+</td>
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<tr>
<td>Collision Avoidance</td>
<td>19,800+</td>
</tr>
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</table>

Counts are accurate as of September 2020

7 of the top 10 automotive companies subscribe to IEEE Xplore.

Source: 2020 Forbes Global 2000 rankings

Manufacturers are using IEEE technology to make vehicles safer, reliable, and more efficient. A number of recent Motor Trend award winners were designed by an organization that uses IEEE information.

IEEE technical societies focusing on automotive engineers include the IEEE Vehicular Technology Society, IEEE Sensors Council, and the IEEE Power Electronics Society.

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Journals
—IEEE Vehicular Technology Magazine—
  #2 in Transportation Science & Technology
—IEEE Transactions on Intelligent Transportation Systems
  #3 in Transportation Science & Technology
—IEEE Transactions on Transportation Electrification—
  #5 in Transportation Science & Technology
—IEEE Transactions on Vehicular Technology
—IEEE Transactions on Control Systems Technology
—IEEE Transactions on Electromagnetic Compatibility
—IEEE Intelligent Transportation Systems Magazine
—IEEE Transactions on Power Electronics
—IEEE Sensors Journal
—IEEE Transactions on Intelligent Vehicles
—IEEE Wireless Communications Letters
—IEEE Wireless Communications Magazine

Source: 2019 Journal Citation Reports, (Clarivate Analytics, 2020)

Conferences
IEEE Forum on Integrated and Sustainable Transportation Systems
IEEE Intelligent Transportation Systems Conference
IEEE Intelligent Vehicles Symposium
IEEE International Conference on Vehicular Electronics and Safety
IEEE International Electric Vehicle Conference
IEEE Vehicle Power and Propulsion Conference
IEEE Vehicular Technology Conference
Workshop on Positioning, Navigation, and Communication

Standards
1653.4 IEEE Standard for DC Traction Power System Field Testing and Acceptance Criteria for System Applications up to 1500 V DC Nominal
1609.12 IEEE Standard for Wireless Access in Vehicular Environments (WAVE)—Identifier Allocations
1512 IEEE Standard for Common Incident Management Message Sets for Use by Emergency Management Centers
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