

IEEE *Xplore*[®] Digital Library



Improve ROI Through Smarter Research

Based on surveys with more than 1,000 technology professionals



Improve ROI Through Smarter Research

Anything that saves an engineer time saves the company money. The surveys summarized in this document reveal that IEEE *Xplore* does exactly that.

IEEE conducted surveys with more than 1,000 professionals across various technology industries. We found that organizations receive measurable returns on their investment when their researchers use the IEEE *Xplore* digital library.

Company Types Represented in the Survey

Telecom

Semiconductor

**Aerospace
and Defense**

Chemical

**Technology
Conglomerate**

**Power and
Energy**

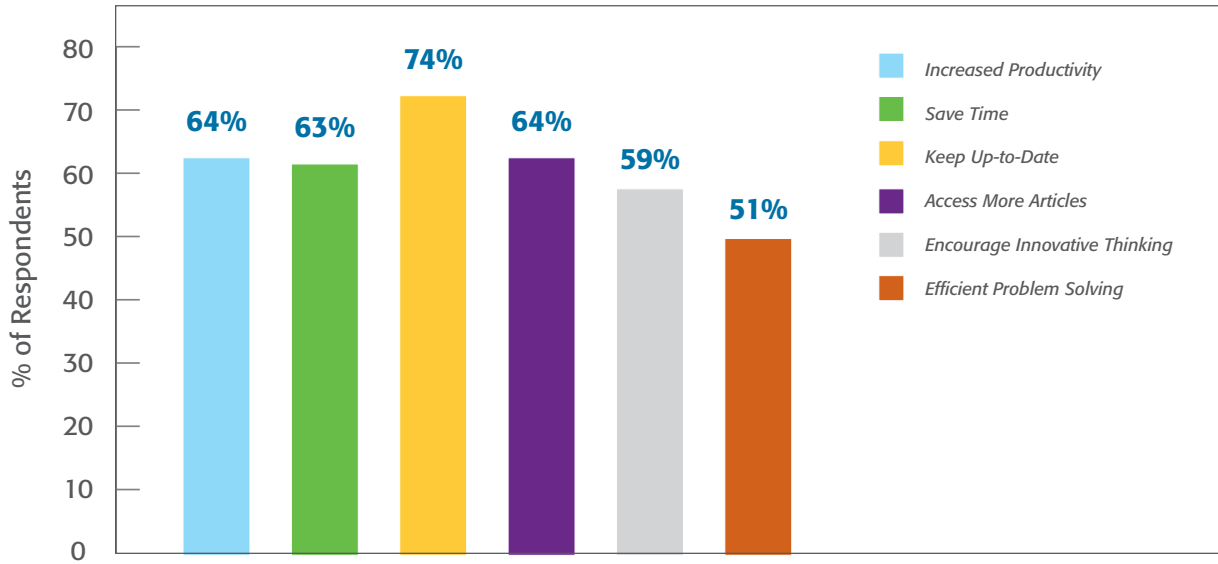
**Technology
Management**

Research

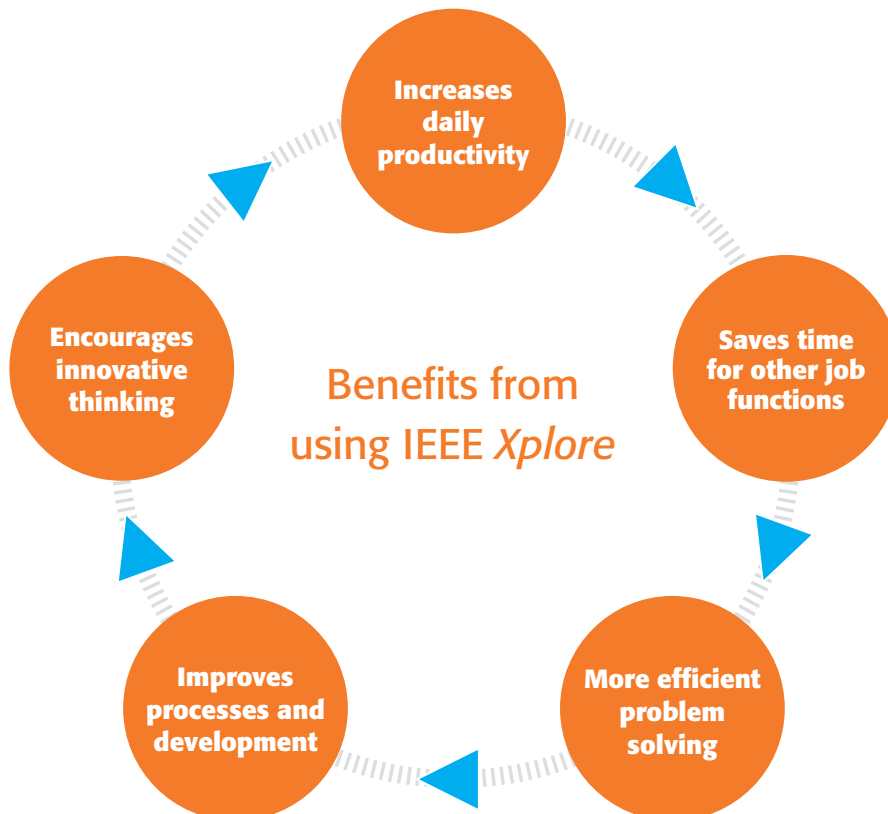
Electronics

**Optics and
Photovoltaics**

We asked: What business advantages did you find from using IEEE Xplore?



Collectively, the results reveal the main business advantage of using IEEE Xplore is that it sets the stage for a cycle of ongoing, interrelated process improvements and product innovations.



Time

What happens to the bottom line each day an engineer has to work through a problem without the right resources?

Time plays a role in productivity. The faster you can complete your research, development, testing, and evaluation—and get your products to market—the higher your ROI will be.

Using a seven-point scale, professionals who agreed to take the survey were asked how much time it would take to find a relevant article with or without IEEE *Xplore*. Below are the results:

75%

found a research article in less than 30 minutes using IEEE Xplore.

73%

responded that it would have taken a day or longer without IEEE Xplore.

59%

responded that they would not find the same quality research anywhere else but in IEEE Xplore.

During critical points in research, development, testing, and evaluation, surveyed engineers state that IEEE *Xplore* quickly provides the kind of content that allows them to move forward with complex projects, enabling them to make decisions faster and with more certainty.

“By saving more time and money for your business, organizations receive measurable returns on investment when their researchers use the IEEE *Xplore* digital library. The availability of high-quality, researched, and reviewed articles reduced the time to complete the business case and the associated costs were reduced significantly.”

– *Telecommunications Professional*

“As a researcher, it is massively advantageous to quickly find and skim numerous articles in a short amount of time in order to find the most relevant ones. IEEE *Xplore* saves me time and helps me narrow down my literature search quickly and efficiently.”

– *Engineer, Aerospace Company*

“My company’s battery products need to comply with various regulations and standards, including standards published by IEEE. I need access to these standards to ensure our products are in compliance.”

– *Electrical Engineer, Telecommunications Company*

Cost

Cost associated with time spent on research purposes is very often underestimated in early project planning. Less time spent spinning your wheels during the research phase means better ROI.

6 hours a week searching the open internet* equals 39 working days per year.

If an engineer's salary is US\$124,000, more than US\$18,600 per year goes toward time spent on inefficient Web searches.**

Reduce that time by half with precise research tools and you would see savings of more than US\$9,300 per year, per employee.

IEEE *Xplore* will streamline your research and save your company time and money.

* Robinson, M.A. (2010). An Empirical Analysis of Engineers' Information Behaviors. *Journal of the American Society for Information Science and Technology*, 61(4), 640-658. <http://dx.doi.org/10.1002/asi.21290>

** IEEE-USA Salary Survey 2013

Saving time leads to saving money. Many respondents indicate that IEEE *Xplore* reduces their research time by a day or more. Calculate the time your engineers spend on research and you start to see the impact that having the right resources can make to your bottom line.

“Subscribing to print journals, scouring old magazines, going to the library, or just winging it and trying a technique that would ultimately not have panned out, are all far too time consuming and costly given the schedule and budget constraints under which we now operate.”

– Engineer, Aerospace and Defense Company

“One hour of searching IEEE *Xplore* means sometimes saving 50 hours in work time and that could probably cost a lot too. It is important to be very well documented before starting a new project or even a new idea.”

– Engineer, Semiconductor Company

“I used IEEE *Xplore* to reference topics for alternate solutions to design issues. The investigation also spawned ideas for other solutions.”

– Engineer, Aerospace and Defense Company

Honesty Reliable Quality Trust

Trust is earned by reliable results. Trust comes from the certainty that you can rely on the engineer, the process, and the up-to-date research content. Technical content found on the open Internet is often not reliable or trustworthy.

The majority of the survey respondents state that they could not find research articles anywhere that equal the quality of the content in IEEE *Xplore*.



96%

will **recommend an IEEE *Xplore* subscription** to their boss or supervisor

agree their job performance will **benefit from continued access** to IEEE *Xplore*

The participants of the surveys reveal that access to the trusted information found in IEEE *Xplore* saves organizations time and money, improves productivity, and stimulates innovation. Researchers, engineers, and everyone involved in development are enticed to explore even further, with fewer risks.

“The IEEE *Xplore* digital library gives us plenty of ways to make sure we aren’t reinventing the wheel. It also fosters a culture of continual learning. Many engineers may be tempted to read more, apply those ideas to their work, and ultimately translate them into features that outstrip the competition, and more importantly, make us more money.”

– Engineer, Optics and Photovoltaics Company

“Having access to the latest in high-quality research papers and tutorial articles is essential to stay on the forefront of technology.

– Engineer, Telecommunications Company

“Books only give you limited knowledge. By reading you can pass an exam, but you can’t do R&D. IEEE papers are the only way to keep you updated.”

– R&D professional, Technology Conglomerate

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