

Getting Started User Guide



IEEE
DiscoveryPoint
for Communications™



User Guide Contents

Find general information about IEEE DiscoveryPoint for Communications, plus frequently asked questions (FAQs) on these popular topics:

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Getting Started with IEEE DiscoveryPoint

The IEEE DiscoveryPoint platform has been designed with the needs of communications engineers in mind—but every platform needs an introduction.

Key Questions

- What is IEEE DiscoveryPoint for Communications?
- What content can be found in IEEE DiscoveryPoint?
- How do I create an account?
- How do I log in to IEEE DiscoveryPoint?
- What do the different icons mean?

What is IEEE DiscoveryPoint for Communications?

IEEE DiscoveryPoint is an all-in-one information platform built for engineers in industry to support the design and development of technology solutions, by offering:



Trusted Sources

Find answers to technical questions by referencing relevant content from high-quality sources.



All-in-One Search

Avoid time wasted searching multiple databases and find all the information you need in a single platform.



Focused Communications Content

Easily find project-specific information by searching expertly curated communications-focused content.



Practical Industry Data

Discover solutions for real-world design challenges with resources tailored to support engineers in industry.

What content can be found in IEEE DiscoveryPoint?

The IEEE DiscoveryPoint platform brings communications focused information together from hundreds of high-quality, reliable, and vetted sources:

Research: Full-text of communications-related content from IEEE and SMPTE

Books: Full-text of communications-related eBook titles from leading publishers

Standards: Industry guidelines and standards, including full-text IEEE Standards

White Papers: Direct links to reports and position papers

eLearning: Full access to self-paced educational courses from IEEE and direct links to courses from manufacturers

Parts & Components: Relevant equipment and parts solutions from distributors and manufacturers

Industry & Product News: Direct links to online business and technology news

Blogs & Commentary: Direct links to opinion and idea content related to communications

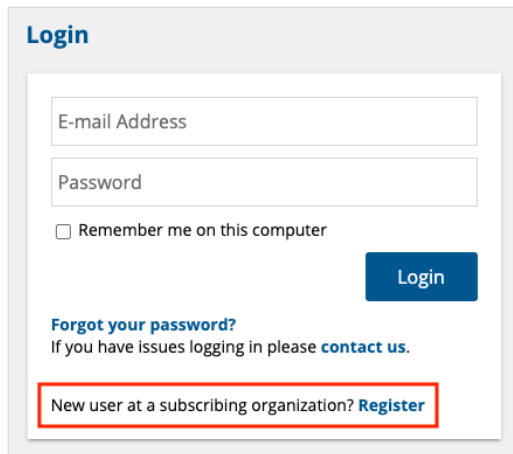
Events: Information on upcoming IEEE conferences, symposiums, and other events

Expert Searches: Collection of ready-made search queries by communications experts, designed to capture the most relevant content

View a more detailed listing of [content sources](#)

How do I create an account?

1. Go to discoverypoint-comms.ieee.org
2. Click **Register** at the bottom of the login window
3. Fill out the **Account Registration** form and click **Continue**



Login

E-mail Address

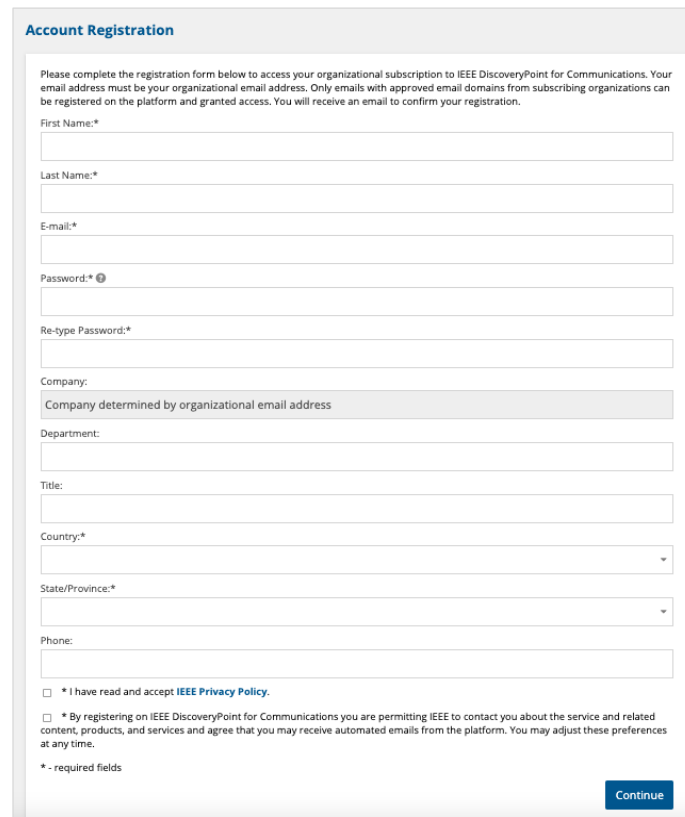
Password

Remember me on this computer

Login

[Forgot your password?](#)
If you have issues logging in please [contact us](#).

New user at a subscribing organization? **Register**



Account Registration

Please complete the registration form below to access your organizational subscription to IEEE DiscoveryPoint for Communications. Your email address must be your organizational email address. Only emails with approved email domains from subscribing organizations can be registered on the platform and granted access. You will receive an email to confirm your registration.

First Name:*

Last Name:*

E-mail:*

Password* @

Re-type Password:*

Company:
Company determined by organizational email address

Department:

Title:

Country:*

State/Province:*

Phone:

* I have read and accept [IEEE Privacy Policy](#).

* By registering on IEEE DiscoveryPoint for Communications you are permitting IEEE to contact you about the service and related content, products, and services and agree that you may receive automated emails from the platform. You may adjust these preferences at any time.

* - required fields

Continue



TIP:

Make sure to register with an active, organizational email address from an approved email domain to be granted access.

How do I log in to IEEE DiscoveryPoint?

Log into IEEE DiscoveryPoint at discoverypoint-comms.ieee.org using your email and password.

Forgot your password? From the second login window, select the [Reset your password](#) link, specify your registered email and select the **Continue** button. Your password will be reset, and notification of follow-up steps will be sent to you by email.

Login

Welcome to IEEE DiscoveryPoint for Communications

Please enter your work email address and click Proceed. If your organization has Single Sign-on authentication enabled, you will be redirected to login via your organization's website.

No Single Sign-on or unsure? Enter your work email address and click Proceed. You will then have the opportunity to enter your password or new users will need to [Register](#).

IEEE DiscoveryPoint for Communications is an all-in-one platform built for engineers in industry to design and develop technology solutions. Put your trust in the platform that brings subject-focused information together from hundreds of vetted sources.

Quickly find the technical information you need and extract insights from results generated by machine learning. With IEEE DiscoveryPoint, spend less time searching and more time discovering solutions to optimize, improve, and innovate high-quality products.

Not a subscriber? Please visit discoverypoint.ieee.org to learn more.

What do the different icons mean?

On the blue navigation bar:



Profile

Access your profile; update settings



Help

Access user help; view full content list



Contact

Send questions; submit feedback

Throughout the platform:



Search for content



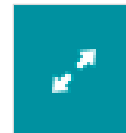
Customize

widget settings



Minimize

content window



Maximize

content window



Access **Actions**



Hide details



Show details



Reset to base settings



Edit



Delete

Search

The IEEE DiscoveryPoint platform allows you to search subject-focused information from hundreds of high-quality and vetted sources using intuitive search features.

Key Questions

- How do I perform a quick search?
- How do I work with the All Results Page?
- How do I sort my Search Results?
- How do I save a Search?
- What additional options do I have with Advanced Search?

How do I perform a quick search?

You can perform a quick search in two places:

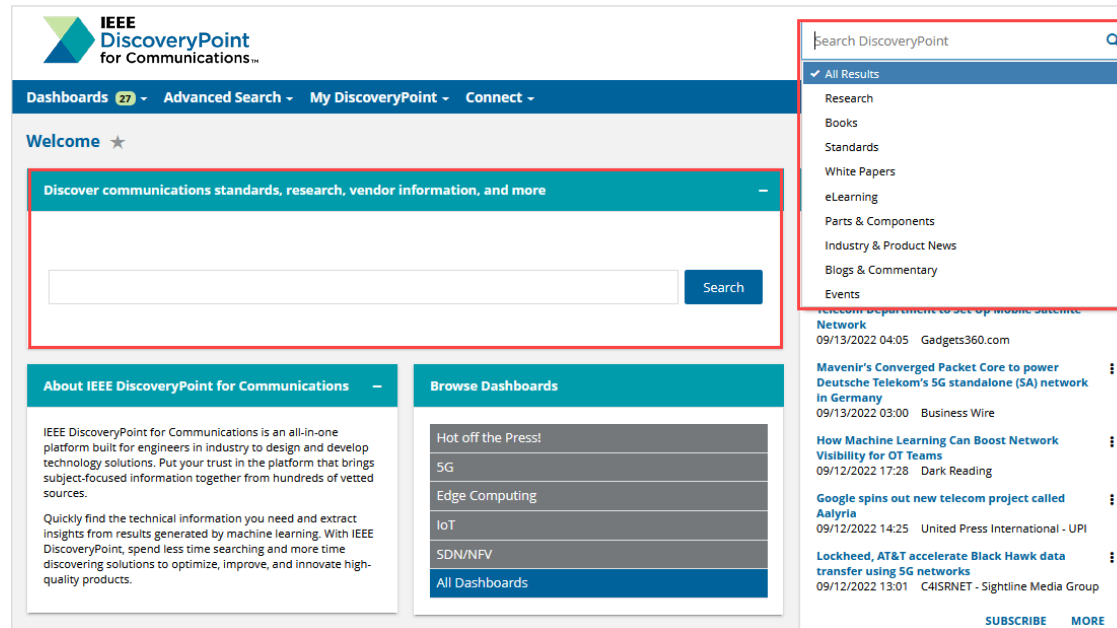
Main Search Box at the center of the Welcome page

- Type in your search terms
- Click on the **Search** button to search all content

Quick Search Box at the top right corner of every page

- Type in your search terms
- Select **All Results** or a **specific content Channel** from the drop-down menu
- Click on the search icon

Main Search Box



Quick Search Box



How do I work with the All Results Page?

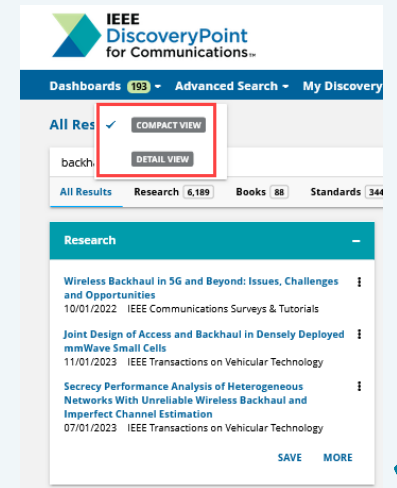
After entering and running your search, you will see a full listing of results from all Channels. IEEE DiscoveryPoint for Communications provides two views for your inquiries displayed on the **All Results** page.

- **Compact View** displays the title, source, and date of documents in each channel.
- **Detailed View** displays each channel occupying its own row of results with a horizontal magazine-type page scroll to see the next set of results for your query. Each result in **Detailed View** displays the complete abstract of each article following its citation enabling you to assess more quickly if an article matches your interest.

From any of these Channel boxes, you can switch between two views using the dropdown list field next to the All Results page name.

- Click **MORE** to see the complete results for that content set
- Click **SAVE** to create a Saved Search

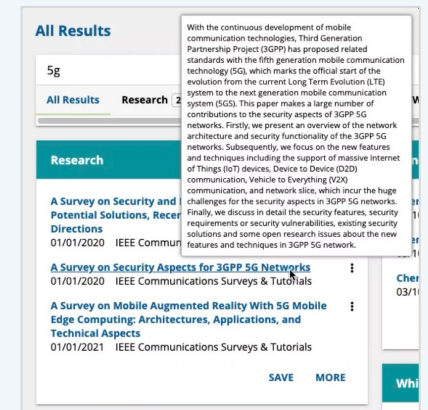
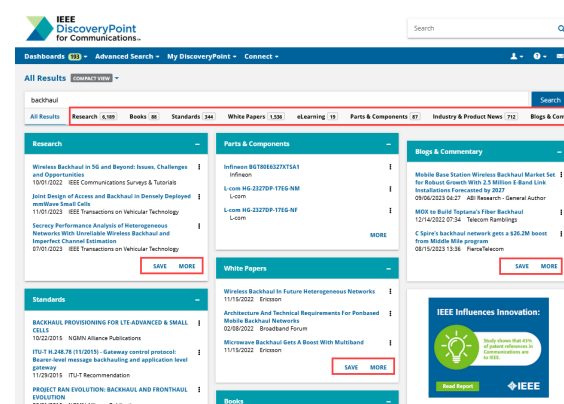
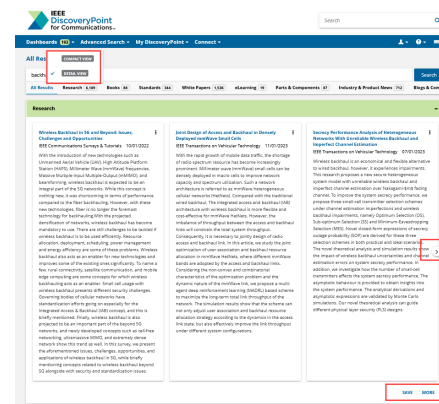
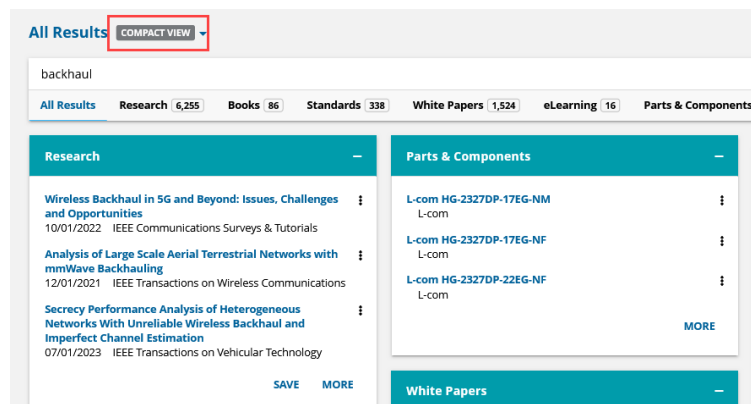
You can also click on any of the **collections**, under the main search box, to see the full results list for that Channel.



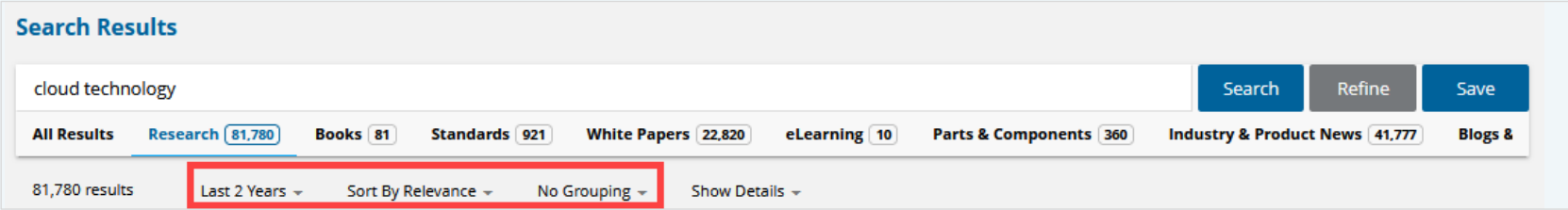
TIP:



Hold your cursor over the link within a search result box to get an overview of the document.



How do I sort my Search Results?



Use the **drop-down menus** below the search box to sort your search results by:

Timeframe:

Choose the search timeframe

- No Limit
- Last 90 Days
- Last 6 Months
- Last 12 Months
- Last 18 Months
- Last 2 Years
- Last 5 Years
- Last 10 Years

Relevancy:

Switch between Relevance and Date

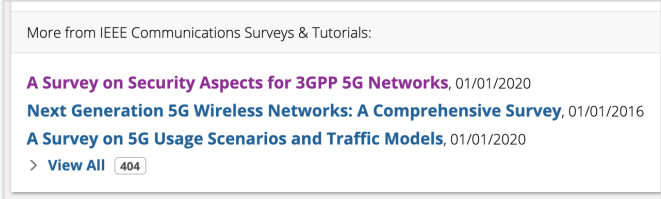
- ✓ Sort By Relevance
- Sort By Date

Publication Name:

Switch between **No Grouping** and **Group By Publication Name**

- ✓ Group By Publication Name
- No Grouping

Selecting **Group By Publication Name/Source** will add a **More from** section at the bottom of every search result with the top results from that publication and the option to view all results.



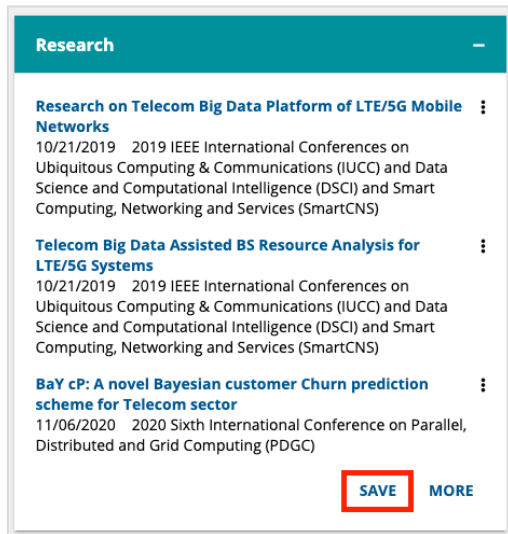
How do I save a search?

The **Save Search** function on IEEE DiscoveryPoint is an easy way to keep updated on your topics of interest.

There are two ways to save a search:

All Results

Once you have conducted a quick search, click **SAVE** in a Channel's box to create a Saved Search.

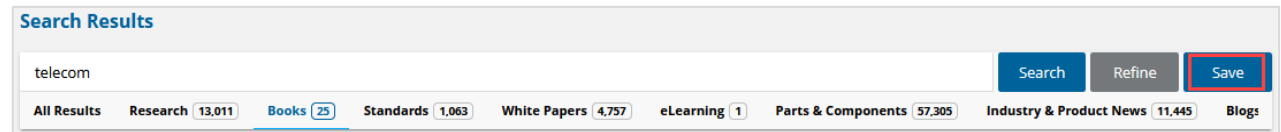


The screenshot shows a 'Research' channel box with a teal header. It lists three search results, each with a title, date, and description. At the bottom right of the channel box, there is a red-bordered 'SAVE' button and a 'MORE' link.

- Research on Telecom Big Data Platform of LTE/5G Mobile Networks**
10/21/2019 2019 IEEE International Conferences on Ubiquitous Computing & Communications (IUCC) and Data Science and Computational Intelligence (DSCI) and Smart Computing, Networking and Services (SmartCNS)
- Telecom Big Data Assisted BS Resource Analysis for LTE/5G Systems**
10/21/2019 2019 IEEE International Conferences on Ubiquitous Computing & Communications (IUCC) and Data Science and Computational Intelligence (DSCI) and Smart Computing, Networking and Services (SmartCNS)
- BaY cP: A novel Bayesian customer Churn prediction scheme for Telecom sector**
11/06/2020 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC)

Advanced Search Results

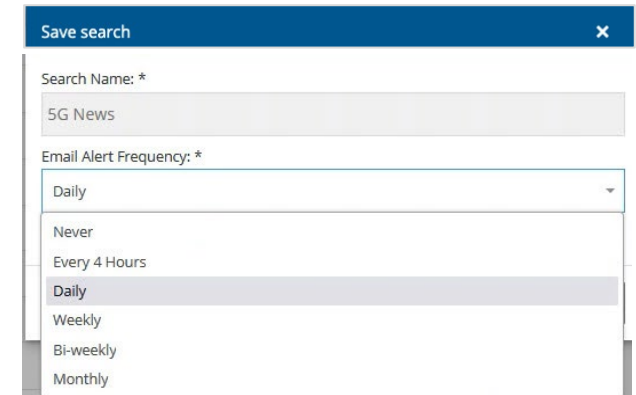
Click the **Save** button to the right of the main search bar.



The screenshot shows the 'Search Results' page for the query 'telecom'. It features a search bar with 'telecom' entered, and buttons for 'Search', 'Refine', and 'Save'. Below the search bar, there are tabs for different result types: All Results, Research (13,011), Books (25), Standards (1,063), White Papers (4,757), eLearning (1), Parts & Components (57,305), Industry & Product News (11,445), and Blogs.

In the Save Search window:

- Enter a name for your search and choose your alert frequency (Never, Every 4 Hours, Daily, Weekly, Bi-weekly, or Monthly)
- Click the checkbox if you wish the search to be added to My Dashboard
- Select **Save**



The screenshot shows the 'Save search' window. It has a dark blue header with a close button. The form includes a 'Search Name: *' field with '5G News' entered, and an 'Email Alert Frequency: *' dropdown menu. The dropdown menu is open, showing options: Never, Every 4 Hours, Daily (highlighted), Weekly, Bi-weekly, and Monthly.

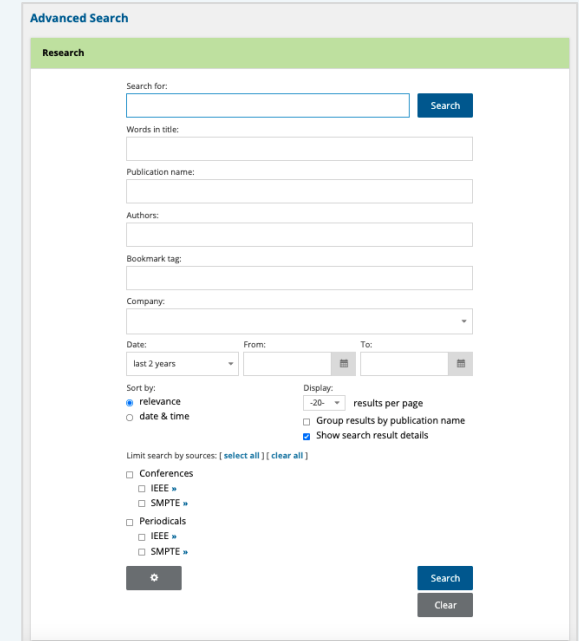
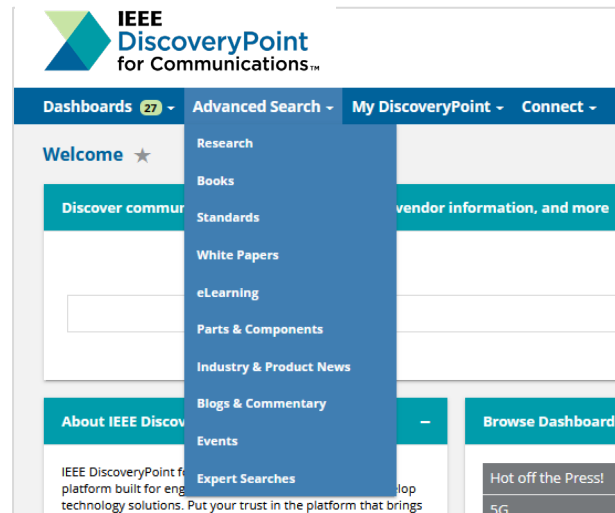
What additional options do I have with Advanced Search?

The Advanced Search forms can be found for each Channel listed in the [Advanced Search](#) drop-down, in the blue navigation bar at the top of the page.

Beyond keywords within the document, you can customize your search using the following fields:

- Words in Title
- Publication/Standard Name or Source
- Authors
- Bookmark tag
- URL
- Company
- Language
- Category
- Manufacturer
- Location
- Date Range

The results can be sorted by **date** or **relevance**.

A screenshot of the 'Advanced Search' form. It features a search bar with a 'Search' button. Below the search bar are several input fields: 'Words in title:', 'Publication name:', 'Authors:', 'Bookmark tag:', and 'Company:'. There are also date range fields labeled 'Date:', 'From:', and 'To:'. The 'Sort by:' section has radio buttons for 'relevance' (selected) and 'date & time'. The 'Display:' section has a dropdown for '-20-' results per page and a checkbox for 'Group results by publication name'. There are also checkboxes for 'Limit search by sources:' with options for 'Conferences', 'Periodicals', 'IEEE', and 'SMPTe'. A 'Clear' button is at the bottom right.

Note: Specific search fields will vary by content Channel, and not all fields will be available on all Channels.

Analyzing & Understanding Search Results

IEEE DiscoveryPoint uses machine learning to analyze your search results—providing you with a better understanding of the content.

Key Questions

- What is the More Like This button?
- What are Insights? How do I view Insights?
- What is on the MI Analyst page?
- What are Topics? How do I view Topics?

What is the More Like This button?

In the results list, use the [More Like This](#) button to find content similar to a particular record.

A Survey on Security and Privacy of 5G Technologies: Potential Solutions, Recent Advancem
IEEE Communications Surveys & Tutorials 01/01/2020 pdf, 15.3 MB [MORE LIKE THIS](#)

Security has become the primary concern in many telecommunications industries today as risks car
as the core and enable **technologies** will be associated with **5G** network, the confidential informatio
wireless systems. Several incidents revealed that the hazard encountered by an infected wireless net

Clicking the [More Like This](#) button replaces the search query based on elements from the selected record and automatically generates a new search result list of on-target items.

Each result listed after the original record shows its **Likeness Score**—a percentage ranking that indicates how similar each document is to the original.

5G Non-Public Networks: Standardization, Architectures and Challenges 76%
IEEE Access 01/01/2021 pdf, 3.47 MB [MORE LIKE THIS](#)

Fifth Generation (5G) is here to accelerate the digitization of economies and society, and open up innovation opportunities for verticals. A myriad of 5G-enabled use cases has been identified across disparate sectors like tourism, retail industry, and manufacturing. Many of the networks of these use cases are expected to be private networks, that is, networks intended for the exclusive use of an enterprise customer. This article provides an overview of the technical aspects in private 5G networks. We first identify the key requirements and enabling solutions for private 5G networks. Then, we review the latest 3rd Generation Partnership Project (3GPP) Release 16 capabilities to support private 5G networks. Next, we provide architecture proposals for single site private networks, including the scenario in which the radio access network (RAN) is shared. Afterwards, we address mobility and multi-site private 5G network scenarios. Finally, we identify key challenges for private 5G networks.

^

Introduction of a 5G-Enabled Architecture for the Realization of Industry 4.0 Use Cases 73%
IEEE Access 01/01/2021 pdf, 2.56 MB [MORE LIKE THIS](#)

The increasing demand for highly customized products, as well as flexible production lines, can be seen as trigger for the "fourth industrial revolution", referred to as "Industry 4.0". Current systems usually rely on wire-line technologies to connect sensors and actuators, but new use cases such as moving robots or drones demand a higher flexibility on communication services. Wireless technologies, especially 5th generation wireless communication systems (5G) are best suited to address these new requirements. Furthermore, this facilitates the renewal of brownfield deployments to enable a smooth migration to Industry 4.0. This paper presents results from the Tactile Internet 4.0 (TACNET 4.0) project and introduces a tailored architecture that is focused on the communication needs given by representative Industry 4.0 use cases while ensuring parallel compliance to latest developments in relevant standardization.

^

5G Authentication and Key Management for Applications 73%
IEEE Communications Standards Magazine 06/01/2021 pdf, 712 KB [MORE LIKE THIS](#)

3GPP has finalized the publication of 5G specifications in Release 16, also called 5G phase 2 in 3GPP, which focuses on the enhancements of 5G basis to address more use cases in the 5G ecosystem. In Release 16, 3GPP took into account a variety of vertical markets in 5G, where security requirements and corresponding mechanisms are increasingly in focus. One of the important security features introduced in 3GPP Release 16 is the Authentication and Key Management for Applications (AKMA), which is similar to the Generic Bootstrapping Architecture (GBA) specified in earlier generations, leveraging an operator authentication infrastructure in order to secure the communication between the UE and an Application Function (AF). To help understand the origin and principles of AKMA better, this article first introduces mechanisms specified before 5G, including GBA and Battery Efficient Security for very low Throughput Machine (BEST), then presents the AKMA specification in more detail, and finally summarizes the enhancements of AKMA compared to preceding mechanisms.

^

What are Insights?

Insights are brief, easy-to-read key points extracted from search results found in IEEE DiscoveryPoint resources like Research, Books, Standards, White Papers, eLearning, Industry & Product News, and Blogs & Commentary.

The built-in tool is designed to help you work through projects in less time by pinpointing the most relevant information contained in documents and directing focus to the materials that are most likely to contain solutions.

The screenshot shows a search results page for 'biomedical engineering'. The search bar contains the text 'biomedical engineering'. Below the search bar, there are filters for 'All Results', 'Research' (42,525), 'Books' (55), 'Standards' (210), 'White Papers' (460), 'eLearning' (6), 'Parts & Components' (18), 'Industry & Product News' (1,730), and 'Blogs & Com'. The search results are sorted by relevance, and there are 42,525 results. A list of results is shown, with the first result being 'The Need for the Establishment of Biomedical Engineering as an Academic and Professional Discipline in the Philippines—A Quantitative Argument' by IEEE Access, dated 01/01/2021, and 6.62 MB. The article preview shows a summary of the research. On the right side, there is a sidebar with two tabs: 'Insights' and 'Topics'. The 'Insights' tab is active, showing key points from the article. A 'VIEW' button is visible at the bottom of the sidebar.

How do I view Insights?

In the right column of your search results page, you will see a box with two tabs titled **Insights** and **Topics**. Click on the Insights tab to view relevant snippets from the documents in your results set listed below the tab. Click **VIEW** to read the full-text of the document.



The detailed view of the Insights sidebar shows the following text:

Insights Topics

This discipline aims to close the gap between **engineering** and biomedicine in order to fulfill the very goal of technology, as earlier asserted — to improve the environment and to improve the quality of life for all.

Because of the emergence of this discipline, **engineering** professionals have frequently involved themselves in many endeavors to enhance biomedicine [8].

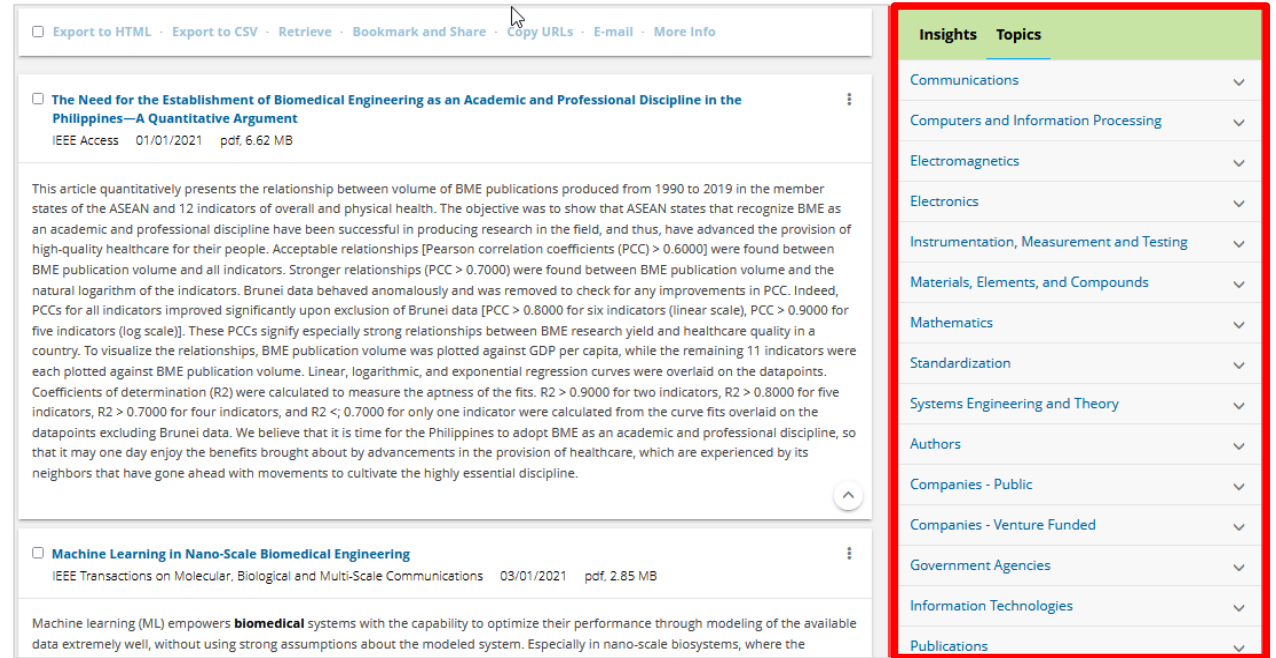
In recent years, the WHO documented a significant increase in the presence of biomedical **engineering** professionals in 126 of 194 WHO member states.

VIEW

These models can be utilized for observations

What are Topics?

The **Topics** widget allows you to explore concepts within your search results. IEEE DiscoveryPoint uses taxonomies to highlight topics pertinent to your search—letting you use **Topics** to further refine your research or explore related ideas.

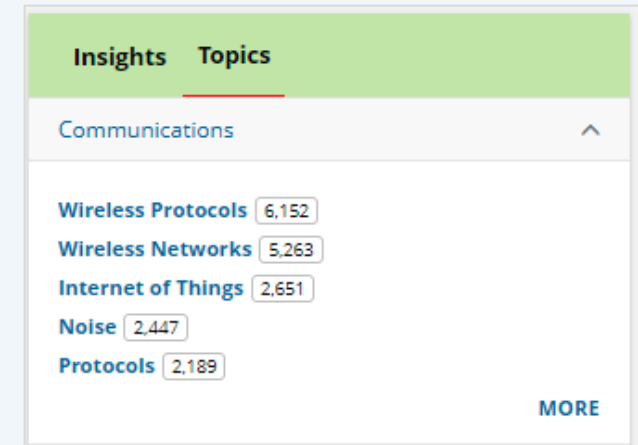


The screenshot shows a search results page with a list of topics on the right side. The topics are: Communications, Computers and Information Processing, Electromagnetics, Electronics, Instrumentation, Measurement and Testing, Materials, Elements, and Compounds, Mathematics, Standardization, Systems Engineering and Theory, Authors, Companies - Public, Companies - Venture Funded, Government Agencies, Information Technologies, and Publications. The 'Topics' tab is selected and highlighted in green.

How do I view Topics?

To view **Topics**, click on the Topics tab in the right-hand module of your search results page.

Individual concepts are extracted from your search results documents and organized into technology and business-related topics areas. The number of results for each topic is also indicated.



The screenshot shows the 'Topics' widget with the following data:

Topic	Count
Wireless Protocols	6,152
Wireless Networks	5,263
Internet of Things	2,651
Noise	2,447
Protocols	2,189

A 'MORE' button is visible at the bottom right of the widget.

What is on the MI Analyst page?

Each **MI Analyst Results page** in IEEE DiscoveryPoint offers several additional data points about the **Topic**, expressed as trend graphs and charts.

The screenshot shows the 'MI Analyst Results' interface for the search term 'biomedical engineering'. At the top, there are search controls: a search bar with 'biomedical engineering', and buttons for 'Search', 'Refine', and 'Save'. Below the search bar, it indicates '165 results', 'Last 18 Months', 'Sort By # Of Entities', and 'Any Proximity'. A notification bar states: 'Your search in now limited to «Communications» mentions. Return to regular search results.'

The main content area is divided into two sections. On the left, under 'Communications - All', there is a list of sub-topics with their respective counts:

- Wireless Networks (8,012)
- Convolution (5,914)
- Internet of Things (3,496)
- Wireless Protocols (3,249)
- Compression (2,920)
- Noise (6,197)
- Protocols (5,183)
- Encoding (3,252)
- Network Architecture (2,965)
- Expansion (2,757)

At the bottom of this section is a pagination control: '1 - 10 of 165'.

On the right, there is a vertical list of 'Insights Topics' with dropdown arrows:

- Communications
- Computers and Information Processing
- Electromagnetics
- Electronics
- Instrumentation, Measurement and Testing
- Materials, Elements, and Compounds
- Mathematics
- Standardization
- Systems Engineering and Theory
- Authors
- Companies - Public
- Companies - Venture Funded
- Government Agencies
- Information Technologies
- Publications

Below the topics list is a 'last 12 months' trend graph. The y-axis ranges from 0 to 800. The graph shows multiple colored lines representing different sub-topics, with data points marked by small squares. The lines generally show a downward trend over the 12-month period, starting between 400 and 600 and ending between 100 and 200.

This screenshot shows a filter panel titled 'Strategic Scenarios'. At the top, it says: 'Your search in now limited to «Strategic Scenario» mentions. Return to regular search results.' Below this, there is a list of scenarios with their counts and an 'ANALYZE' button:

- Intel is focusing on the technology PC Memory (841)
- Intel is focusing on the technology Graphics Processing Unit (460)
- Intel is focusing on the technology Personal Computers (219)
- Intel is focusing on the technology Python (212)
- IBM is focusing on the technology IBM Watson (178)

Other scenarios listed include: Corporate Strategies, Cost Cutting, Financial Results, Global Risks, Information Technology Focus, Legal and Patent Issues, and Marketing Issues. At the bottom right, there is a pagination control: '1 - 10 of 21,277'.

This screenshot shows a filter panel titled 'Companies - Public'. At the top, it says: 'Your search in now limited to «Company» mentions. Return to regular search results.' Below this, there is a list of companies with their counts and an 'ANALYZE' button:

- Intel (2,331)
- IBM (761)
- Acta (605)
- Ultrasonic (567)
- Nvidia (540)
- XING (863)
- Google (693)
- Softmax (593)
- CHS (561)
- I2 Technologies (539)

At the bottom right, there is a pagination control: '1 - 10 of 2,355'.

Many of the **Topic** areas have an additional filter where you can further focus your search results, based upon relevant sub-categories.

Sharing Search Results

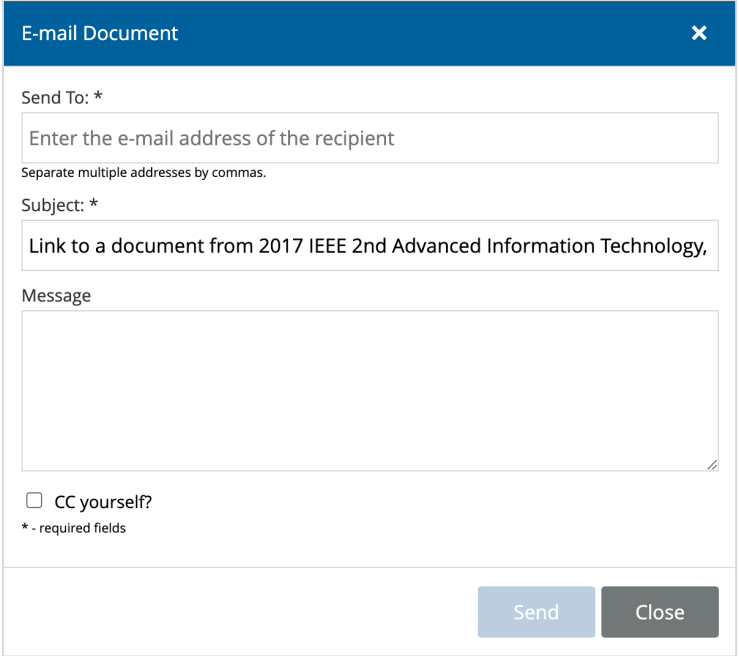
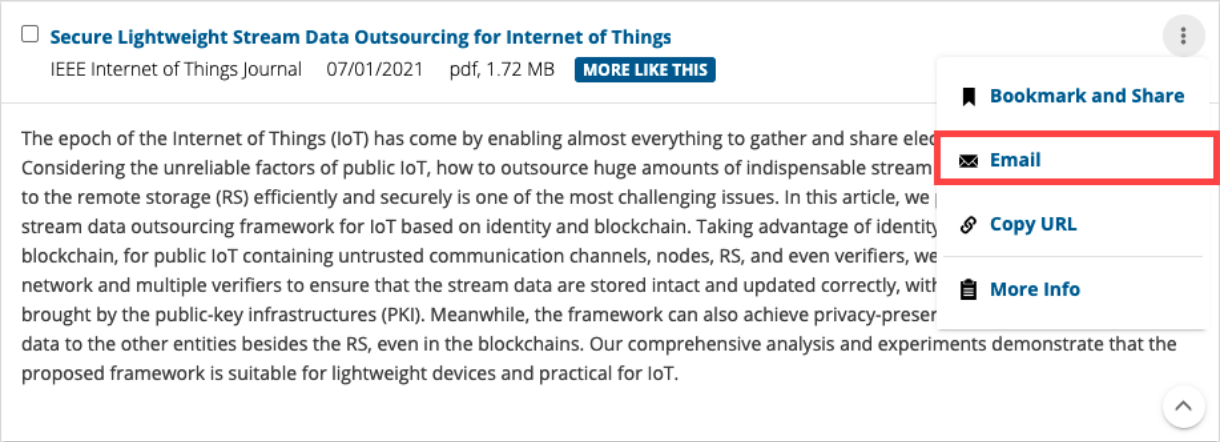
IEEE DiscoveryPoint offers a variety of ways for you to share search results, making it easy to collaborate with your team.

Key Questions

- How do I email documents to other platform users?
- What are bookmarks?
- How do I bookmark content?

How do I email documents to other platform users?

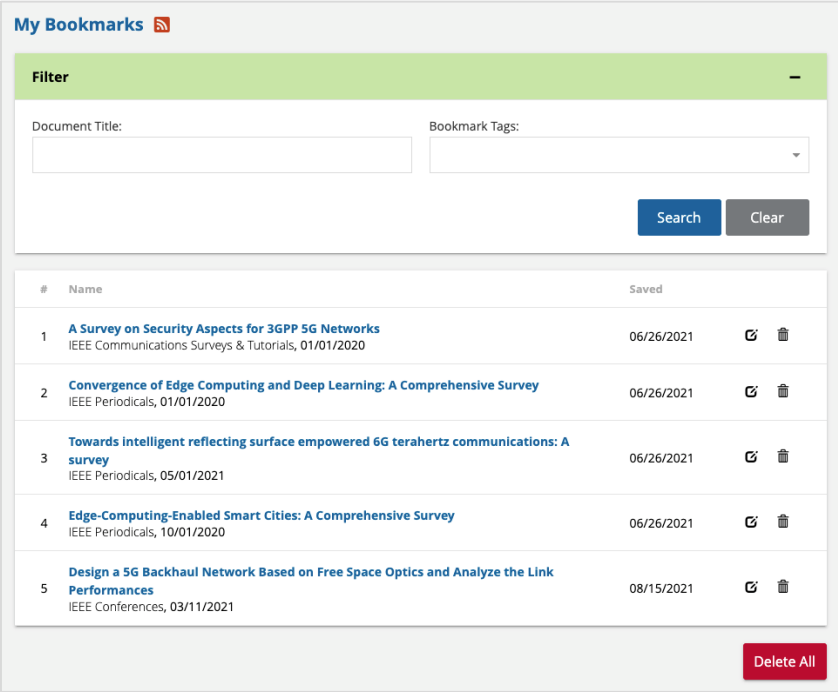
You can email a document by clicking the Actions icon and selecting the **Email** link. This opens an overlay window to facilitate the email.



You can email a link to the full summary of the document, if available, to any other platform user.

What are bookmarks?

Bookmarks are links to favorite documents located on IEEE DiscoveryPoint—yours and those created and shared by colleagues within your organization.



You can access your bookmarks by clicking the My DiscoveryPoint drop-down in the blue navigation bar at the top of the screen. Select **My Bookmarks**.

On the My Bookmarks page, you can filter your bookmarks by **Document Title** or **Bookmark Tags**. You can also **edit** or **delete** your bookmarks.

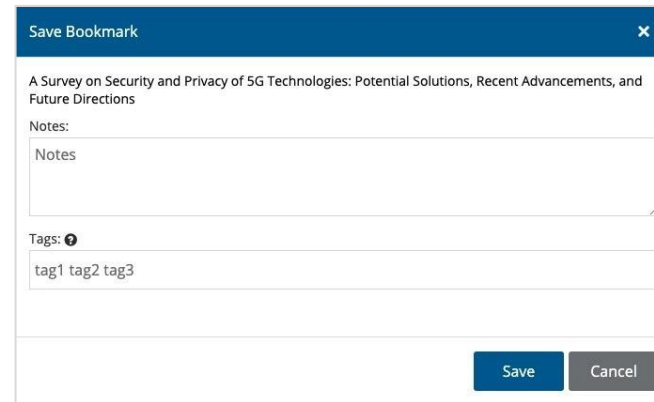
How do I bookmark content?

You can bookmark a document by clicking the **Actions** icon and selecting the **Bookmark and Share** link.

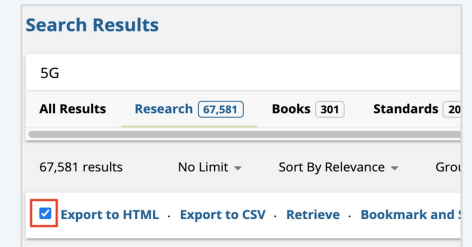
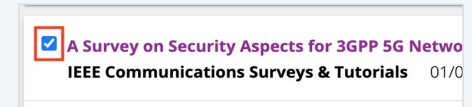


TIP:

You can bookmark and share multiple results by clicking the check boxes to the left of the titles and selecting **Bookmark and Share** just under the filtering options.



This opens an overlay window to facilitate saving the bookmark. In the **Save Bookmark** window, you can add **Notes** related to the content and add **Tags**.



Dashboards & Expert Searches

Created and maintained by IEEE subject matter experts, Dashboards and Expert Searches provide quick access to coverage of hot topics pertinent to engineers.

Key Questions

- What are Dashboards?
- How do I view Expert Searches?
- How do I subscribe to Expert Searches?

What are Dashboards?



Dashboards on IEEE DiscoveryPoint are curated pages that highlight research and trends of selected communications topics.

TIP:

When keywords from your search correlate with the subjects covered by available Dashboards, **Curated Dashboards on this Topic** will appear on the results page as clickable thumbnail images

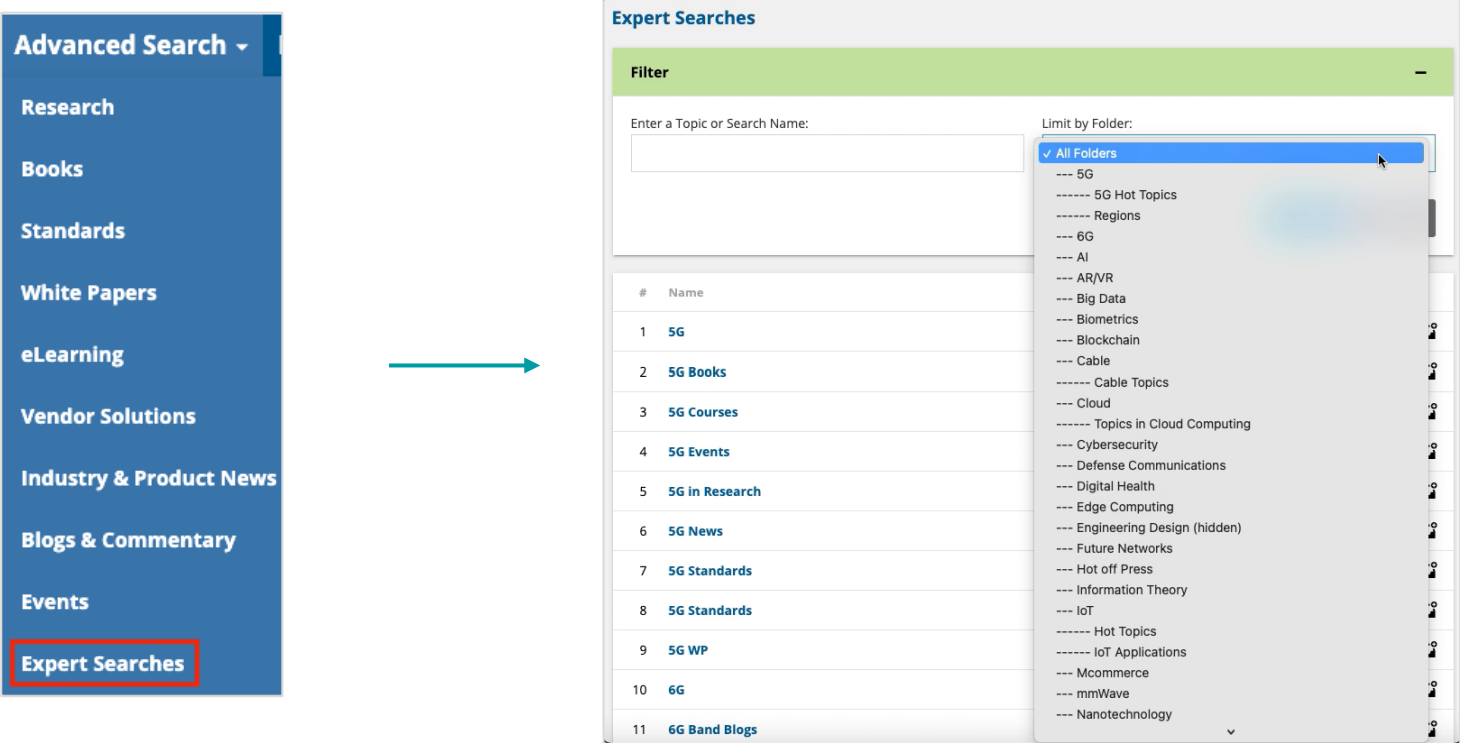
You may see numbers in a green circle **2** when viewing the Dashboard drop-down menu and Dashboard Directory. This indicates the number of unread and updated items since the dashboard was last accessed.

The screenshot shows the IEEE DiscoveryPoint interface. On the left, a navigation bar has a 'Dashboards' dropdown menu with 'Dashboard Directory' highlighted and a green circle with the number '3'. The main content area shows a 'Dashboard Directory' grid with various categories like 'Welcome', 'Hot off the Press!', 'Telecom News', '5G', '6G', 'AI/Machine Learning', 'Augmented/Virtual Reality', 'Big Data/Data Science', 'Biometrics', 'Blockchain', 'Cable', 'Cloud Computing', 'Cybersecurity', 'Defense Communications', 'Digital Health', 'Edge Computing', 'Future Networks', 'Information Theory', 'IoT', and 'M-commerce'. Some categories have green circles with numbers (e.g., 'Hot off the Press!' has a '2', '6G' has a '2'). Below the directory is a 'Hot off the Press!' section with several article thumbnails and titles, including 'Alula unveils BAT-Fire universal 5G-ready fire communicator' and 'DoT Secretary Says 6G Will Converge Satcom and Terrestrial Networks'.

Click on the **Dashboards** drop-down menu in the blue navigation bar. Your **Favorite Dashboards** and **Recent Dashboards** will appear at the top of the drop-down list. Click the **Dashboard Directory** to view all Dashboards.



How do I view Expert Searches?

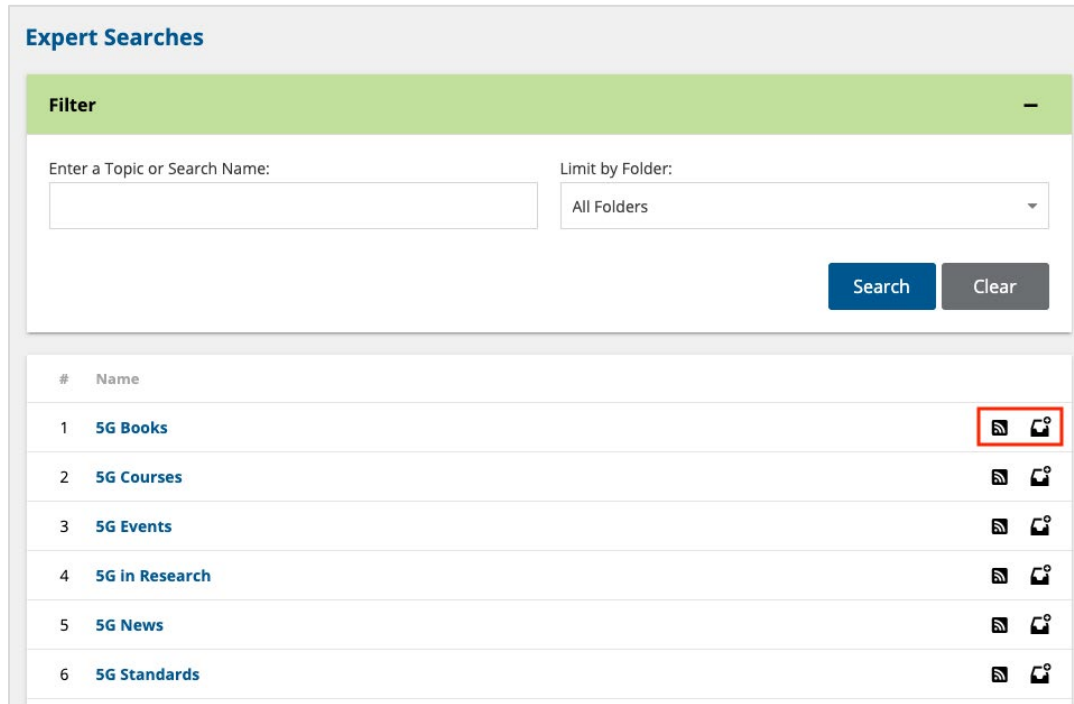
IEEE DiscoveryPoint provides **Expert Searches** to deliver search results with high precision on a variety of relevant topics for users to browse. To view Expert Searches, go to **Advanced Search** (drop-down) on the blue navigation bar and open the **Expert Searches** page.















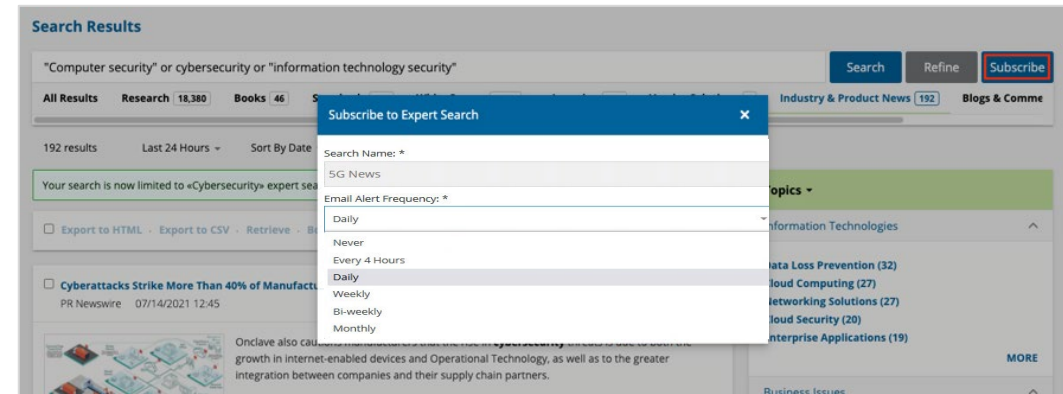
You may view all searches or search for existing searches. Use the drop-down to limit your search to a specific folder, or search through all folders.

How do I subscribe to an Expert Search Alert?

Click the **RSS icon**  to subscribe to an RSS feed of new search results; or click on the **Subscribe icon**  to receive a periodic email update whenever new results are added to content Channels.



#	Name		
1	5G Books		
2	5G Courses		
3	5G Events		
4	5G in Research		
5	5G News		
6	5G Standards		



You may also subscribe to an **Expert Search** when viewing the results of the search, by clicking the **Subscribe** button on the right side of the search bar on the search results page:

- A subscription overlay will appear. From here, you can subscribe to email notifications based on frequency of alerts.
- Your notification options are "Never", "Every 4 Hours", "Daily", "Weekly", "Bi-weekly", or "Monthly".
- Click on the **Save** link.

My DiscoveryPoint

The **My DiscoveryPoint** drop-down is a gateway to your personalized pages within IEEE DiscoveryPoint.

Key Questions

- What is the My DiscoveryPoint drop-down menu?
- What is My Dashboard?
- How do I add new content to My Dashboard?

What is the My DiscoveryPoint drop-down menu?

The **My DiscoveryPoint drop-down** is a gateway to your personalized pages within IEEE DiscoveryPoint for Communications.

You will find links to:

- [My Dashboard](#)
- [My Saved Searches](#)
- [My Bookmarks](#)
- [Bookmarked for Me](#)



What is My Dashboard?

My Dashboard is a personal dashboard that can be customized for your specific information needs with:

- Saved Searches or Expert Searches
- Recommended Reading Lists
- My Groups





TIP:

You may change the placement of existing boxes on the page by dragging and dropping them with the drag icon

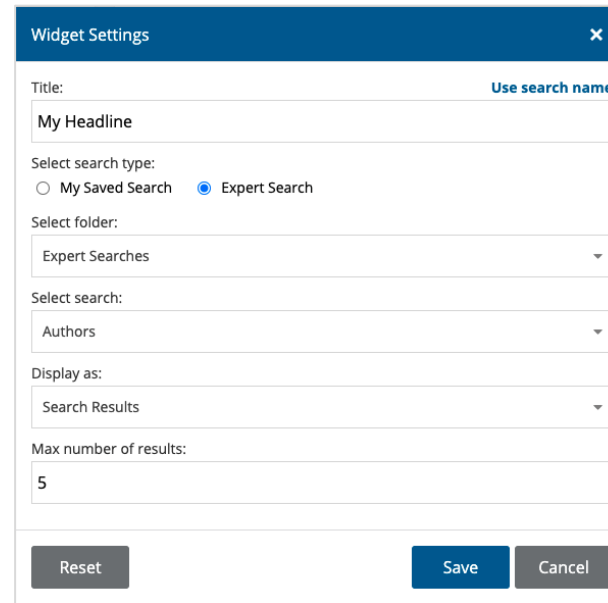


Initially, all the widget boxes are called **My Headlines**. You may configure up to 16 headline widgets. You may open or close boxes and change their positions on the page.

How do I add new content to My Dashboard?

Add new content by clicking the Customize icon  on the “My Headline” header, or click the “Customize” icon  at the top right of an existing **My Headline** box.

- Select your desired Saved or Expert Search from the drop-down lists:
 - For Expert Searches, select the Folder first, then the Search.
 - If selecting a Saved Search, you will need to have created a Search that you saved for it to appear under this selection.
- Choose to display content as Search Results or Insights
- Click the **Save** button

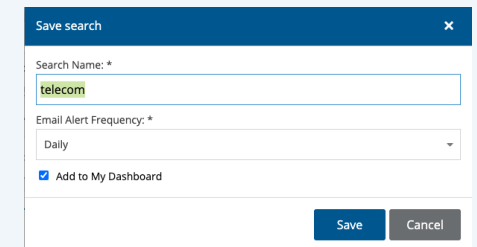
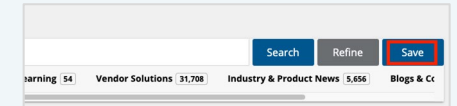
A screenshot of the 'Widget Settings' dialog box. The title bar is blue with 'Widget Settings' and a close button. The form contains:

- Title: My Headline (with a 'Use search name' link)
- Select search type: My Saved Search (radio), Expert Search (radio, selected)
- Select folder: Expert Searches (dropdown)
- Select search: Authors (dropdown)
- Display as: Search Results (dropdown)
- Max number of results: 5 (input field)
- Buttons: Reset, Save, Cancel



TIP:

You may also save searches to an empty Headline widget immediately after you create them, by clicking the **Save** button. Check the **Add to My Dashboard** box if you wish to see this search in a Headline widget.

A screenshot of the 'Save search' dialog box. The title bar is blue with 'Save search' and a close button. The form contains:

- Search Name: * (input field with 'telecom' entered)
- Email Alert Frequency: * (dropdown menu with 'Daily' selected)
- Add to My Dashboard
- Buttons: Save, Cancel

What is "My Groups?"

You can use **My Groups** to collaborate with colleagues in your organization around a specific topic. You can add bookmarks, discussions, and related research.

6G Task Force

Group Bookmarks

- Enabling Massive IoT Toward 6G: A Comprehensive Survey
- Promoting U.S. Leadership On The Path To 6g
- A sneak peek into the future from Nokia Bell Labs

[more bookmarks »](#)

Group Discussions

Topic	Author	Replies	Last Reply Date	Last Reply By
Top 6G Physical Layer Challenges	Georgia Castillo	0	08/12/2021 09:14	Georgia Castillo

[more topics »](#)

6G Blogs

- Purdue sets up 6G lab, partners with SBA and Tilson
08/26/2021 11:10 FierceWireless
- Samsung plans \$205B investment in strategic industries, including semiconductors
08/24/2021 19:18 SiliconANGLE
- Powering the Network Pricing Model with Near Real-Time Features
08/24/2021 12:00 Uber Engineering Blog
- Ericsson CEO warns of Chinese advantage if 6G standard...

6G Wireless Research

- Notice of Violation of IEEE Publication Principles: 6G Wireless Communication: Its Vision, Viability, Application, Requirement, Technologies, Encounters and Research
07/01/2020 2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)
- Channel Modeling and Characteristics for 6G Wireless Communications
01/01/2021 IEEE Network

My Groups Menu

- [Browse Groups Directory](#)
- [Create a New Group](#)

My Groups Options

- [View Bookmarks](#)
- [View Discussion](#)
- [View Members](#)
- [View Newsletters](#)
- [Join Group](#)

Hints

- Groups allow you to collaborate with team members in your organization by sharing documents and participating in group discussions around a specific topic. Browse the [Groups Directory](#) to find existing groups of interest, or create one of your own!
- View your existing Groups' dashboards by clicking a Group's name link.

[LINK TO HELP](#)

Groups Directory

#	Name	Description	Access
1	6G Task Force		open
2	Another Test		open
3	CSM 5G		open
4	CSM 6G Group	Testing group functionality	open
5	CSM Test		open
6	domason		open
7	domason2		open
8	IEEE Test	For the Beta	closed
9	Mou's regression test		open
10	New Group		open

1 - 10 of 15

To join an existing group, go to **Browse Groups Directory**, view groups of interest and click on the link of a group that interests you. You will be taken to that group's dashboard.

Settings and Personalization

Customize your settings to always get the most out of IEEE DiscoveryPoint.

Key Questions

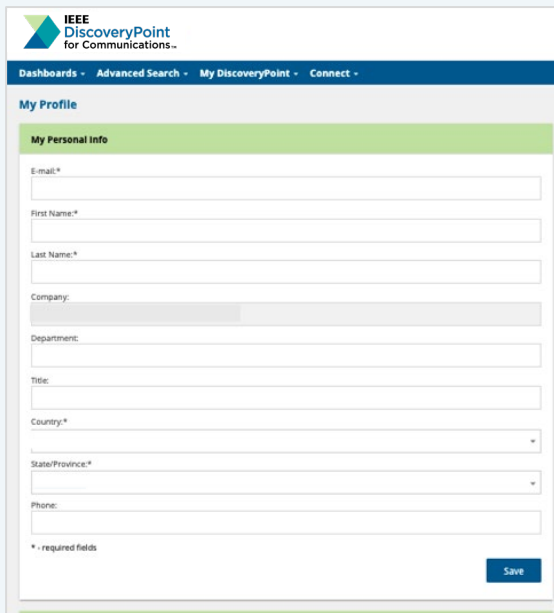
- How do I change my profile details?
- Where can I change my settings?
- What are the Recommended Reading Lists?

How do I change my profile details?

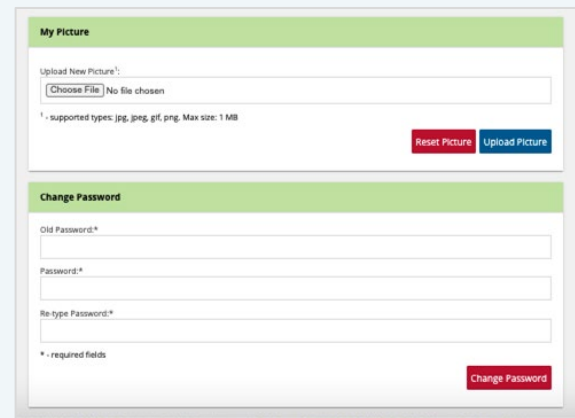
Access your profile settings by selecting the **My Profile**  icon on the right side of the blue navigation bar.

From here, select the **My Profile** link in the drop-down.

Update personal info at the top of the page



The screenshot shows the 'My Profile' page with the 'My Personal Info' section highlighted. The form includes fields for E-mail, First Name, Last Name, Company, Department, Title, Country, State/Province, and Phone. A 'Save' button is located at the bottom right of the form.




The screenshot shows two sections: 'My Picture' and 'Change Password'. The 'My Picture' section has a 'Choose File' button, a 'No file chosen' message, and 'Reset Picture' and 'Upload Picture' buttons. The 'Change Password' section has fields for 'Old Password', 'Password', and 'Re-type Password', and a 'Change Password' button.

Change your password
at the bottom of the page

Add or remove a picture:

- Click the **Browse/choose file...**
- Click on the **Upload Picture** button to add the picture to your profile
- To delete a picture, select the **Reset Picture** button

Where can I change my settings?

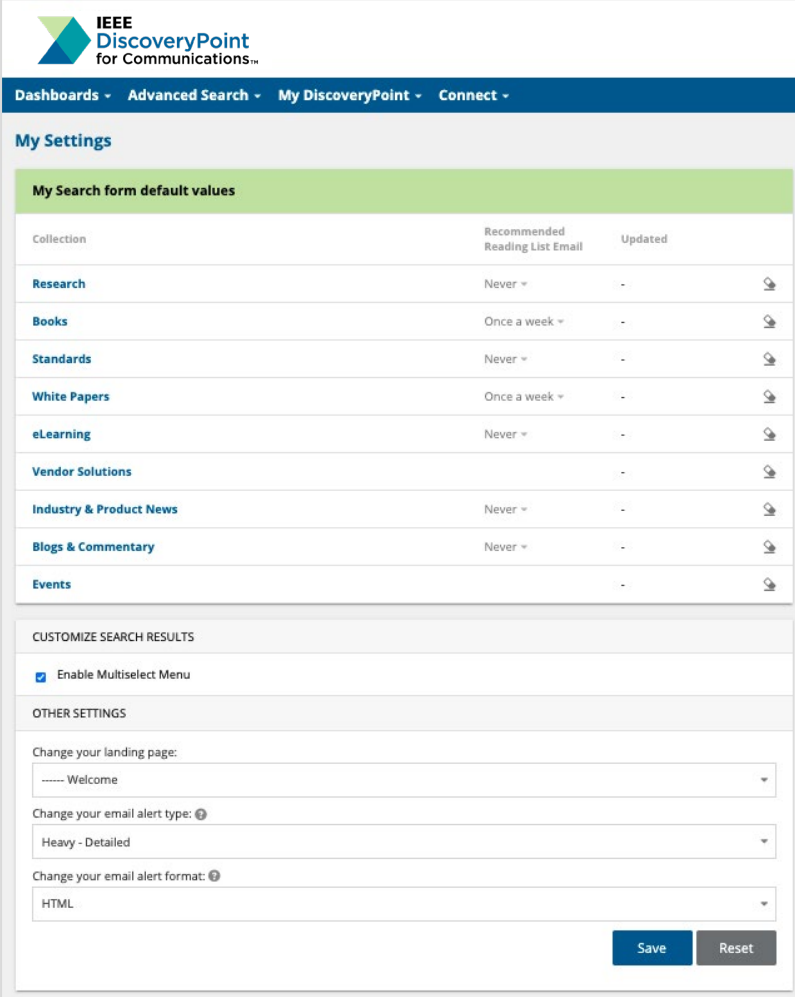
You can access **My Settings** by selecting the **My Profile**  icon on the right side of the blue navigation bar. From here, select the **My Settings** link in the drop-down.










My Settings allows you to change your search settings for each content Channel, customize your search results, and select preferences for other settings.

Each content Channel can be customized as follows:

- Change the frequency of your **Recommended Reading List** emails for each Channel using the drop-down menu.
- Reset to default settings by clicking the **Reset icon** next to the Channel's name
- Change the **Advanced Search options** for any of the Channels by clicking on the name of the Channel

The **Customize Search Results** and **Other Settings** are universal and will apply to searches in **all** content Channels.



Collection	Recommended Reading List Email	Updated
Research	Never ▾	- 
Books	Once a week ▾	- 
Standards	Never ▾	- 
White Papers	Once a week ▾	- 
eLearning	Never ▾	- 
Vendor Solutions	-	- 
Industry & Product News	Never ▾	- 
Blogs & Commentary	Never ▾	- 
Events	-	- 

CUSTOMIZE SEARCH RESULTS

Enable Multiselect Menu

OTHER SETTINGS

Change your landing page:
..... Welcome ▾

Change your email alert type: ⓘ
Heavy - Detailed ▾

Change your email alert format: ⓘ
HTML ▾

Save **Reset**

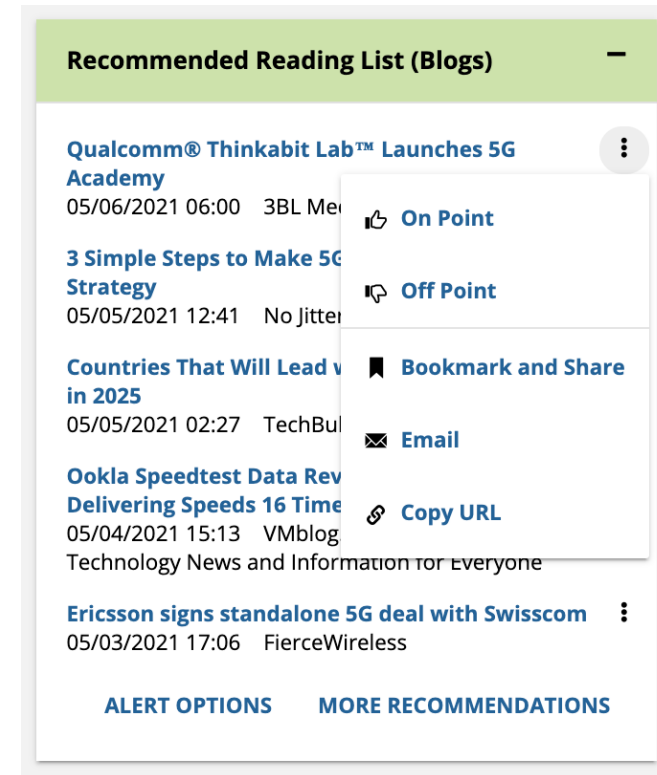
What are the Recommended Reading Lists?

IEEE DiscoveryPoint provides content recommendations for you, based on an automated analysis of your past reading activity over the last 30 days.

Each **Recommended Reading List** widget has added functions to make the widget work better for you:

- Click the **MORE RECOMMENDATIONS** link to view the entire list of results.
- Click the **ALERT OPTIONS** link to set up email alerts or adjust the frequency of updates to your existing alerts.
- Click the Actions icon to render your opinion on whether the document was **on or off point** for what you were seeking, and to **Bookmark & Share, Email, or Copy** the document's URL

To set the schedule of email alerts for your Recommended Reading Lists, go to **My Settings**



Questions

The IEEE DiscoveryPoint team is always here to help.

You can find further support, or submit feedback, by selecting the Contact drop-down in the blue navigation bar and selecting Contact Us or email the team directly at discoverypoint-comms@ieee.org.

[Find more information about using IEEE DiscoveryPoint on the User Help pages.](#)

Appendix

Key Questions

- What are the Search Result Record Actions?
- Can I use Boolean Operators in a Quick or Advanced Search?
- What is the Connect drop-down menu?
- What is "My Colleagues?"
- What is "My Groups?"
- How do I create a new group? How do I add members?
- What is the My Saved Searches page?
- What is the My Bookmarks page?
- What is the Bookmarked for Me page?

What are the Search Result Record Actions?

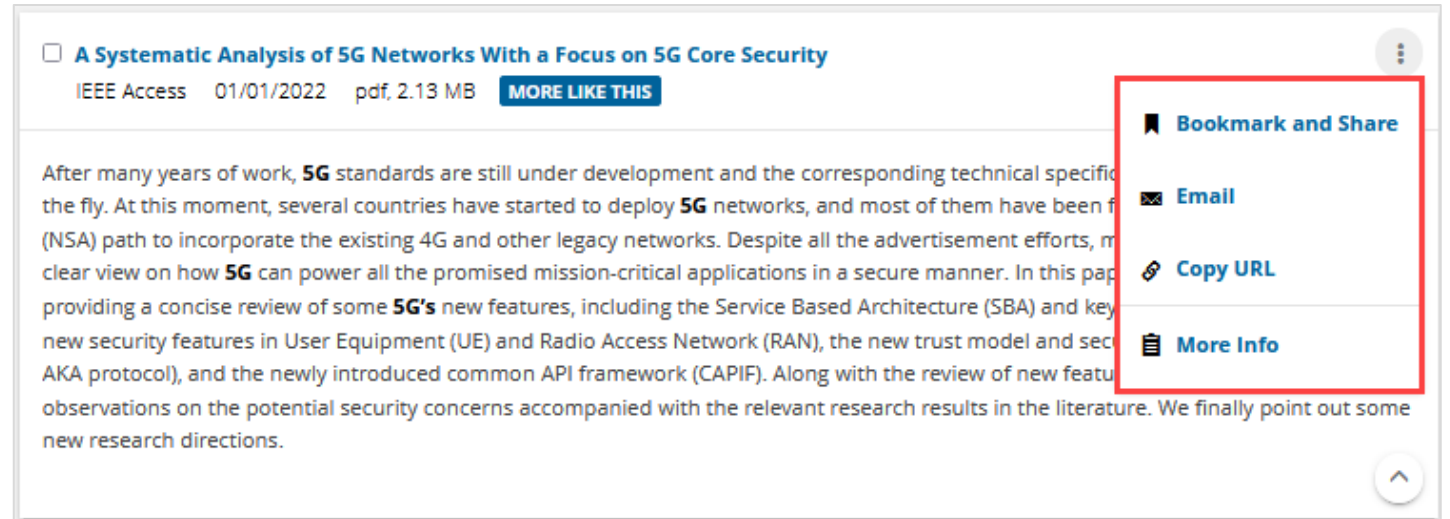
Every IEEE DiscoveryPoint search result record has a variety of actions that you can perform, accessible by clicking on the Action icon to the right of the record.

Bookmark and Share: Allows you to Bookmark the link to a document for easy future retrieval, as well as share it with designated Colleagues on the platform

Email: Email a link to a document and write a message to anyone. Only those with access to the platform will be able to access the document.

Copy URL: Copies the URL of the requested document for pasting in an email or other document

More Info: More document specific detail



A Systematic Analysis of 5G Networks With a Focus on 5G Core Security
IEEE Access 01/01/2022 pdf, 2.13 MB [MORE LIKE THIS](#)

After many years of work, **5G** standards are still under development and the corresponding technical specifications are still in the fly. At this moment, several countries have started to deploy **5G** networks, and most of them have been following the (NSA) path to incorporate the existing 4G and other legacy networks. Despite all the advertisement efforts, there is still a clear view on how **5G** can power all the promised mission-critical applications in a secure manner. In this paper, we provide a concise review of some **5G's** new features, including the Service Based Architecture (SBA) and key new security features in User Equipment (UE) and Radio Access Network (RAN), the new trust model and security protocol (AKA protocol), and the newly introduced common API framework (CAPIF). Along with the review of new features, we also provide observations on the potential security concerns accompanied with the relevant research results in the literature. We finally point out some new research directions.

- Bookmark and Share
- Email
- Copy URL
- More Info

Can I use Boolean Operators in a Quick or Advanced Search?

IEEE DiscoveryPoint supports full Boolean search capability (**AND, OR, NOT**), including parenthetical expressions within any search box. There is **no limit** to the level of nesting which you can use in a search query.

USE:	"Double Quotes"
TO:	Search on occurrences of a specific phrase

For example:

- Software for "cloud computing" will retrieve documents containing the exact phrase "cloud computing" with no other words or characters between them, and also includes the word "software" somewhere in the record.

USE:	AND
TO:	Narrow your search and retrieve records that contain each of the words listed in your query.

For example:

- Modulation AND Demodulation will retrieve documents that contain both the word "Modulation" and the word "Demodulation" somewhere within the record.

USE:	OR
TO:	Retrieve documents that include any of the search terms you have entered.

For example:

- *Operator OR Carrier* will retrieve documents that contain either the word "operator" or the word "carrier" somewhere within the record.

USE:	NOT
TO:	To indicate a term that must not appear in the documents, in order to eliminate irrelevant records from your search results

For example:

- *Cable NOT tv* will retrieve documents containing the word "cable" but will omit those articles referencing "TV".

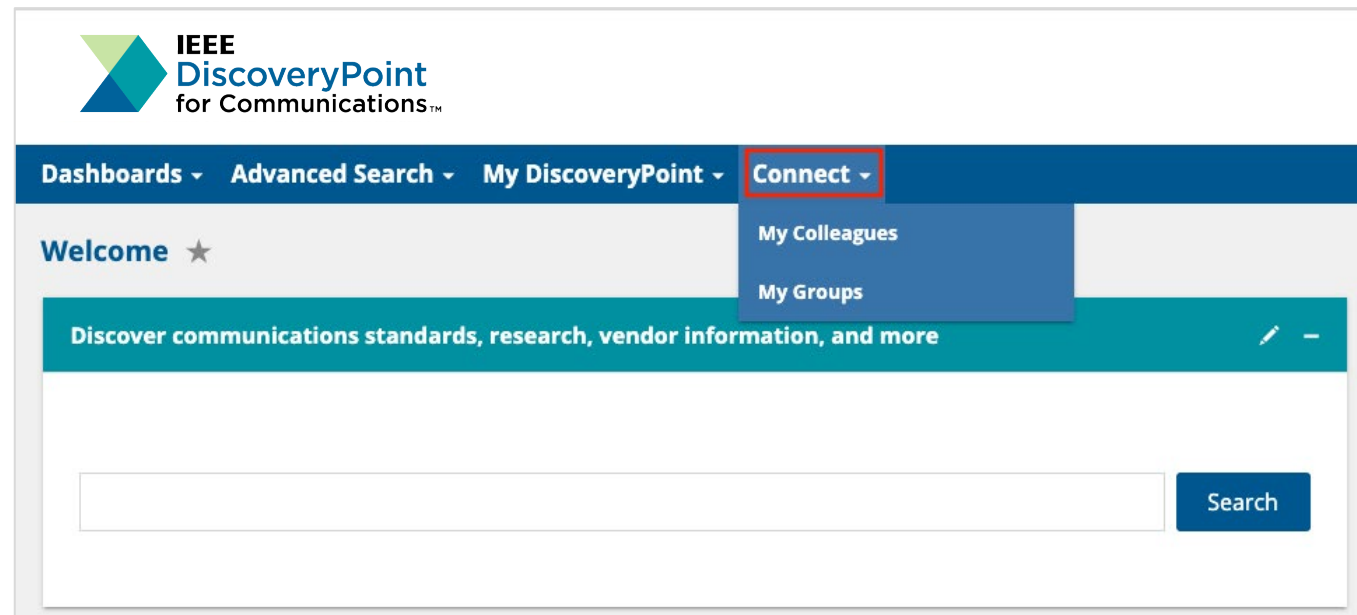
Find more information about **Boolean Operators**. [\[link to Search Features help page\]](#)

What is the Connect drop-down menu?

You can share content and collaborate with other platform users in your organization on specific topics by using the **Connect** tools on IEEE DiscoveryPoint.


Clicking the **Connect** drop-down on the blue navigation bar will provide you with two links:

- **My Colleagues**
- **My Groups**

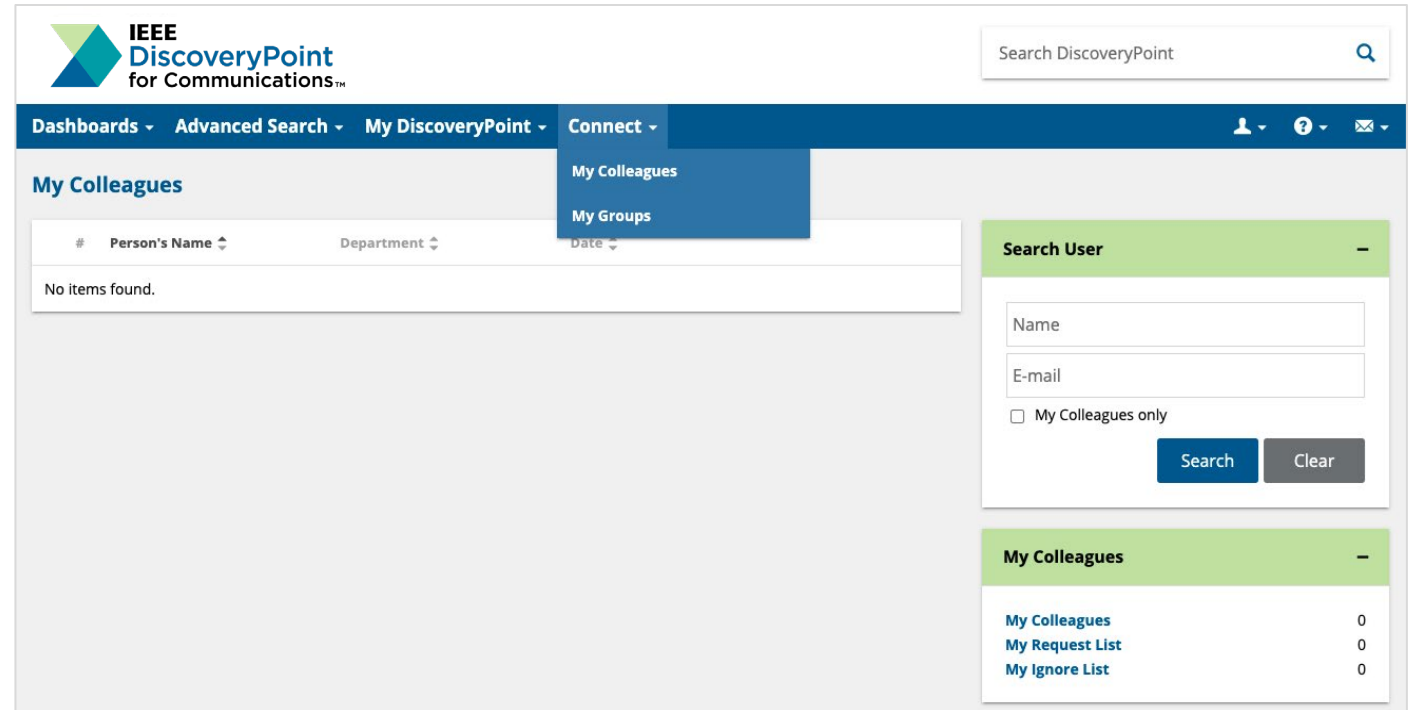


What is "My Colleagues?"

You can use [My Colleagues](#) to connect and share content with other platform users in your organization.

To invite a colleague to join your network, first find their profile by typing their name or email in the [Search User](#) window. Then click on the  icon next to their name

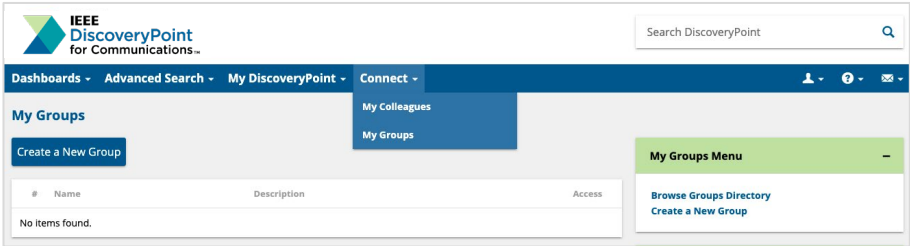
Your colleague will receive an automated message with your invitation. If accepted, you can share bookmarks with each other.



The screenshot displays the IEEE DiscoveryPoint for Communications user interface. At the top left is the IEEE DiscoveryPoint logo. A search bar labeled "Search DiscoveryPoint" is in the top right. The navigation bar includes "Dashboards", "Advanced Search", "My DiscoveryPoint", and "Connect". The "Connect" dropdown menu is open, showing "My Colleagues" and "My Groups". The main content area is titled "My Colleagues" and contains a table with columns for "#", "Person's Name", "Department", and "Date". The table is currently empty, displaying "No items found." On the right side, there is a "Search User" panel with input fields for "Name" and "E-mail", a checkbox for "My Colleagues only", and "Search" and "Clear" buttons. Below this is a "My Colleagues" summary panel showing counts for "My Colleagues", "My Request List", and "My Ignore List", all of which are currently at 0.

How do I create a new group? How do I add members?

To create a new group, click the [Create a New Group](#) and enter the group name and description.



Create a New Group

New Group

Group Name:*

Description:

Upload New Picture¹: No file chosen

¹ - supported types: .jpg, .jpeg, .gif, .png. Max size: 1 MB. Max resolution: 1280x1024

Access level:

Open
Group is listed in the Groups Directory and everyone can join.

Closed
Group is listed in the Groups Directory but membership is at the discretion of the group administrators. Users can request membership or be invited by group administrators.

Secret
Group is NOT listed in the Groups Directory and membership is by invitation only.

User Opt-Out:
This option will be available after group creation.
Users must accept your invitations to be members of the group unless your portal administrator grants your group Opt-out status.

* - required fields



TIP:

Once the group is created, use the Search User box on the [View Members](#) page to find organization colleagues' name and email to invite them to join the group.

My Groups Options

- [View Bookmarks](#)
- [View Discussion](#)
- [View Members](#)
- [View Newsletters](#)
- [Join Group](#)

What is the My Saved Searches page?

My Saved Searches lists all your Saved Searches.

My Saved Searches

Filter

Enter a Topic or Search Name:

Search **Clear**

Create Search

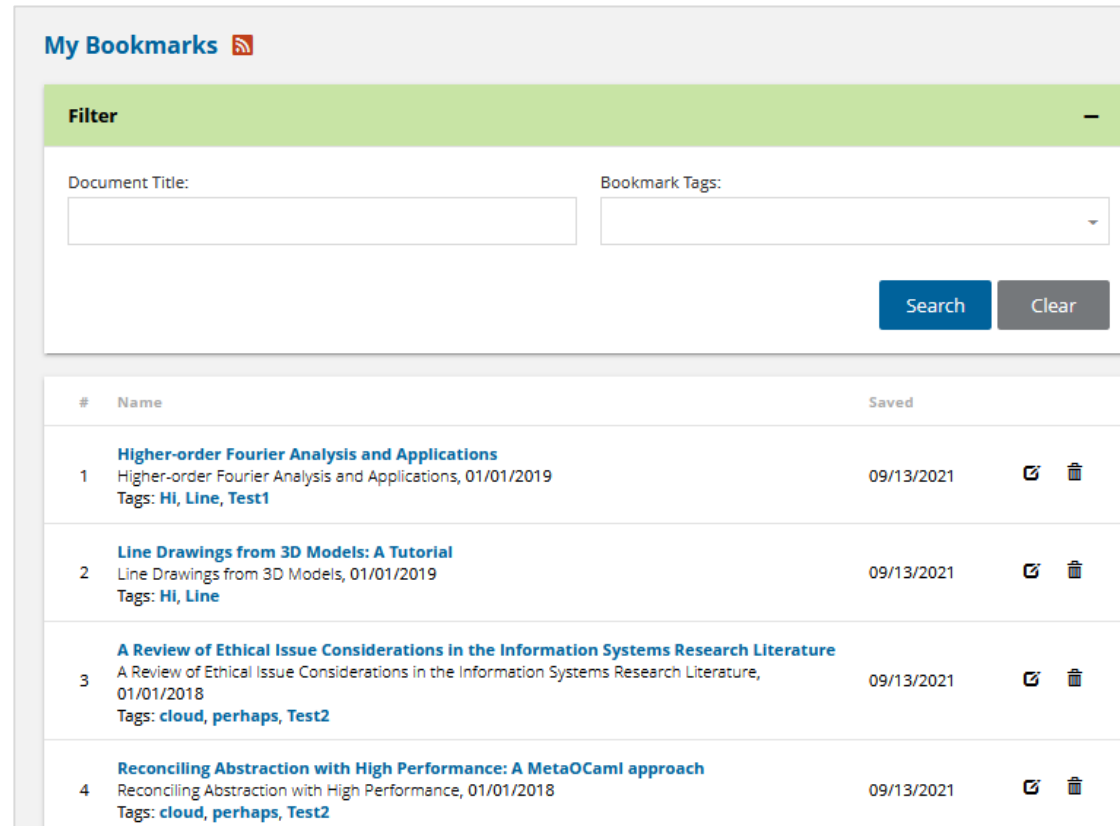
#	Name	Frequency			
1	5g	Daily			
2	AI	Daily			
3	Edge Computing	Daily			
4	IoT	Daily			

Delete All

From this page you can **View, Filter, Edit, Delete,** or **Unsubscribe** to search alerts.

What is the My Bookmarks page?

My Bookmarks is where you can View, Edit, or Delete your bookmarks.



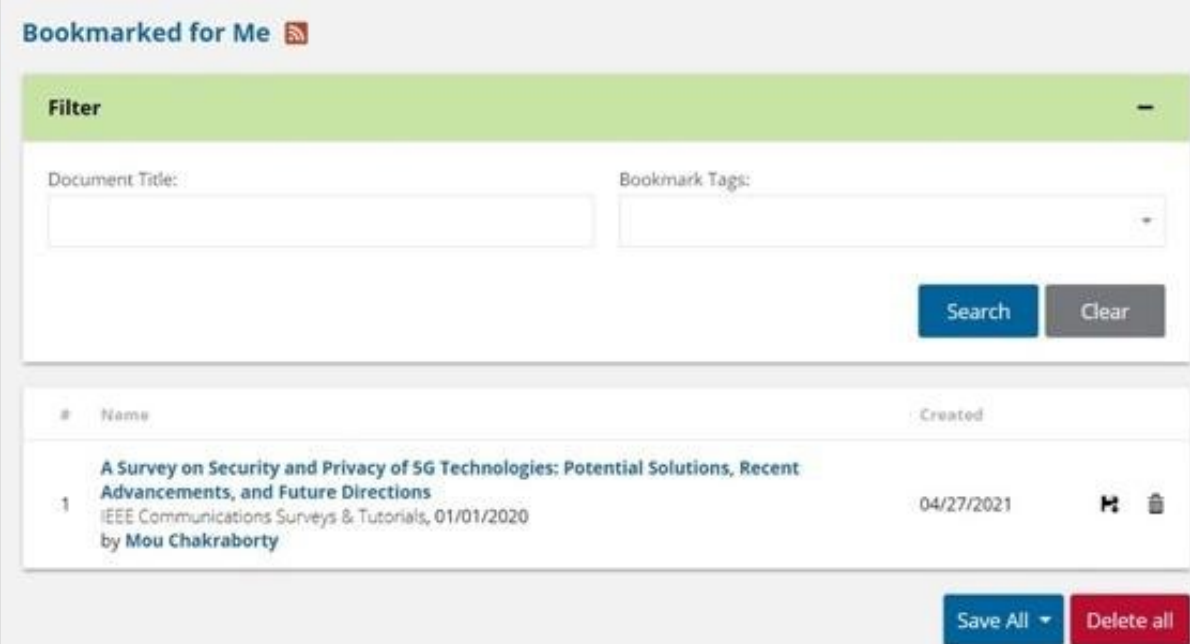
The screenshot shows the 'My Bookmarks' page. At the top, there is a header 'My Bookmarks' with a red RSS icon. Below this is a 'Filter' section with a green background. It contains two input fields: 'Document Title' and 'Bookmark Tags'. To the right of these fields are 'Search' and 'Clear' buttons. Below the filter section is a table of bookmarks. The table has columns for '#', 'Name', and 'Saved'. Each row represents a bookmark with its title, date saved, and edit/delete icons.

#	Name	Saved
1	Higher-order Fourier Analysis and Applications Higher-order Fourier Analysis and Applications, 01/01/2019 Tags: Hi, Line, Test1	09/13/2021
2	Line Drawings from 3D Models: A Tutorial Line Drawings from 3D Models, 01/01/2019 Tags: Hi, Line	09/13/2021
3	A Review of Ethical Issue Considerations in the Information Systems Research Literature A Review of Ethical Issue Considerations in the Information Systems Research Literature, 01/01/2018 Tags: cloud, perhaps, Test2	09/13/2021
4	Reconciling Abstraction with High Performance: A MetaOCaml approach Reconciling Abstraction with High Performance, 01/01/2018 Tags: cloud, perhaps, Test2	09/13/2021

In addition to the list of your bookmarks, this page also has **Bookmark Tags** and **Search by Bookmark Tag** widgets.

What is the Bookmarked for Me page?

The **Bookmarked for Me** page provides a list of saved documents that colleagues in your organization have saved for you.



The screenshot shows the 'Bookmarked for Me' page interface. At the top, there is a header 'Bookmarked for Me' with a red RSS icon. Below this is a green 'Filter' bar. Under the filter bar, there are two input fields: 'Document Title:' and 'Bookmark Tags:'. To the right of these fields are 'Search' and 'Clear' buttons. Below the filter section is a table with columns for '#', 'Name', and 'Created'. The table contains one entry with the following details:

#	Name	Created
1	A Survey on Security and Privacy of 5G Technologies: Potential Solutions, Recent Advancements, and Future Directions IEEE Communications Surveys & Tutorials, 01/01/2020 by Mou Chakraborty	04/27/2021

At the bottom right of the page, there are 'Save All' and 'Delete all' buttons.