

ACM DIGITAL LIBRARY

매뉴얼

신원데이터넷

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1. 출판사 소개
2. 수록내용
3. The ACM Digital Library
4. The Guide to Computing Literature

Association for Computing Machinery (ACM)

- 1947년 설립된 미국컴퓨터협회 ACM(<http://www.acm.org>)은 컴퓨터 및 IT 관련 모든 분야에 대한 최신 정보를 제공하는 협회로, 현재 전 세계 190 여 개 국 150,000 여 명 이상의 회원 보유
- ACM 회원들은 단순히 기술보고서나 논문을 게재하는 활동 이외에도, 연구 시 발생 되었던 문제들과 해결 방법, 그리고 수록된 기술 보고서나 논문에 대한 Review를 제시함으로써 컴퓨터 관련 분야의 가장 권위 있는 Community를 형성하고 있음

SIG(Special Interest Groups)

- ACM 내 소 주제분야 관련 분과회
- 전세계 170개의 컨퍼런스, 워크샵, 심포지엄을 주관
- 컴퓨터 IT 관련 분야의 37개 분과에서 관련 연구 및 정보 교환

SIGACCESS	Accessibility and Computing	SIGKDD	Knowledge Discovery in Data
SIGACT	Algorithms & Computation Theory	SIGLOG	Logic and Computation
SIGAI	Artificial Intelligence	SIGMETRICS	Measurement and Evaluation
SIGAPP	Applied Computing	SIGMICRO	Microarchitecture
SIGARCH	Computer Architecture	SIGMIS	Management Information Systems
SIGAda	Ada Programming Language	SIGMM	Multimedia Systems
SIGBED	Embedded Systems	SIGMOBILE	Mobility of Systems, Users, Data & Computing
SIGBio	Bioinformatics, Computational Biology	SIGMOD	Management of Data
SIGCAS	Computers and Society	SIGOPS	Operating Systems
SIGCHI	Computer	SIGPLAN	Programming Languages
SIGCOMM	Data Communication	SIGSAC	Security, Audit and Control
SIGCSE	Computer Science Education	SIGSAM	Symbolic & Algebraic Manipulation
SIGDA	Design Automation	SIGSIM	Simulation
SIGDOC	Design of Communication	SIGSOFT	Software Engineering
SIGEVO	Genetic and Evolutionary Computation	SIGSPATIAL	Spatial Information
SIGGRAPH	Computer Graphics	SIGUCCS	University & College Computing Services
SIGHPC	High Performance Computing	SIGWEB	Hypertext, Hypermedia and Web
SIGIR	Information Retrieval	SIGecom	Electronic Commerce
SIGITE	Information Technology Education		

ACM Digital Library

1. 주제분야 : 컴퓨터 공학분야

Artificial Intelligence, Machine Learning, Computer Vision, Natural language processing

Society and the Computing Profession

Networks and Communications

Human Computer Interaction

Computational Theory, Algorithms and Mathematics

Information Systems, Search, Information Retrieval, Database Systems, Data Mining, Data Science

Applied Computing: Industry/Business. Physical Sciences, Life Sciences, Education, Law, Forensics, Arts/Humanities, Entertainment

Architecture, Embedded Systems and Electronics, Robotics

Security and Privacy

Web, Mobile and Multimedia Technologies

Graphics and Computer-Aided Design

Hardware, Power and Energy

Software Engineering and Programming Languages

ACM Digital Library

2. 수록내용 :

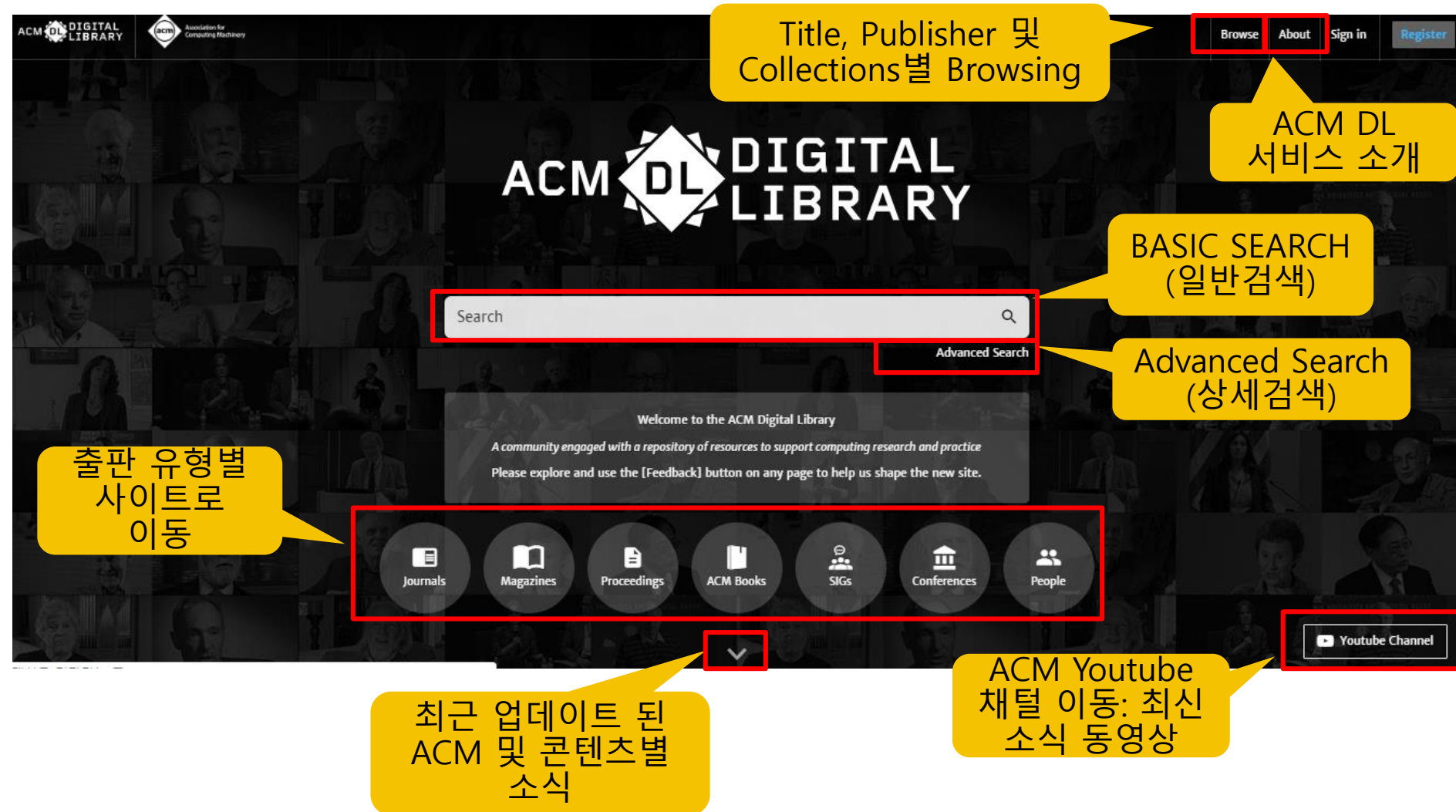
The ACM Digital Library

컴퓨터 공학 분야의 Journals, Conference proceedings, Technical magazines, newsletters 및 books의 원문(PDF형식) 및 논문의 서지 정보 제공

- Coverage: 1936년 ~ 현재
- 제공 종수 : 원문 575,094여 건, 2,805,870여 건의 서지 Records
- 업데이트 수치 : 매년 2만 5천 여건의 records
- Audio, Video, Animation을 포함한 6,000개 이상의 multi-media 파일

3. THE ACM DIGITAL LIBRARY 초기화면

<https://dl.acm.org>



The screenshot shows the ACM Digital Library homepage with several callouts:

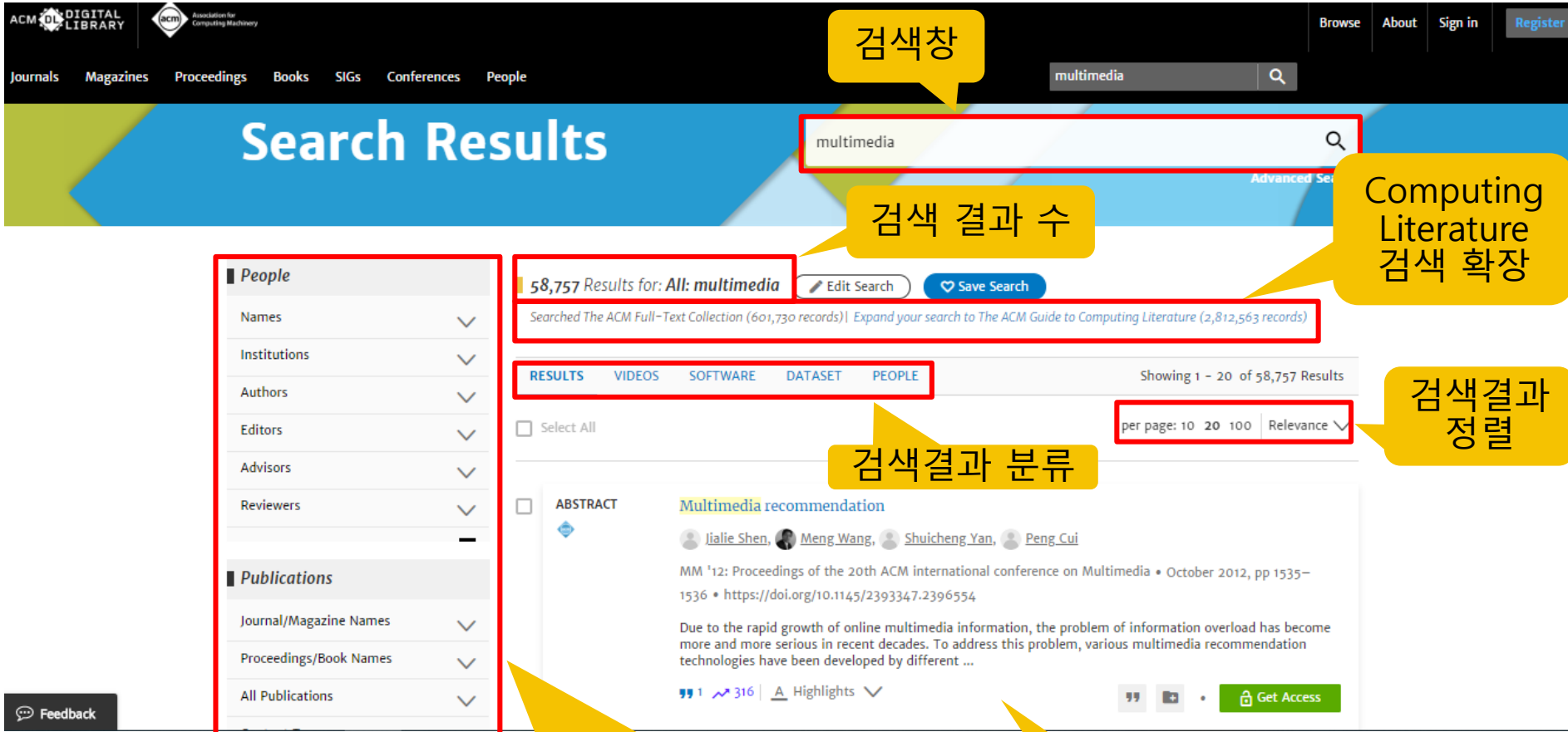
- Top Right:** Callouts for "Browse", "About", "Sign in", and "Register" buttons.
- Center:** A large search bar with a "Search" label and a magnifying glass icon. Below it is a link for "Advanced Search".
- Bottom Center:** A row of circular icons for "Journals", "Magazines", "Proceedings", "ACM Books", "SIGs", "Conferences", and "People".
- Bottom Right:** A "Youtube Channel" button.
- Bottom Left:** A dropdown arrow icon.

Callout text boxes:

- Top Left:** Title, Publisher 및 Collections별 Browsing
- Top Right:** ACM DL 서비스 소개
- Search Bar:** BASIC SEARCH (일반검색)
- Advanced Search:** Advanced Search (상세검색)
- Bottom Left:** 출판 유형별 사이트로 이동
- Bottom Center:** 최근 업데이트 된 ACM 및 콘텐츠별 소식
- Bottom Right:** ACM Youtube 채널 이동: 최신 소식 동영상

4. 검색 - ACM BASIC SEARCH(일반검색)

- 초기화면 > 일반검색으로 예) Multimedia 검색 결과 화면



The screenshot shows the ACM search results page for the query 'multimedia'. The page features a search bar at the top with the text 'multimedia' and a magnifying glass icon. Below the search bar, the results are displayed in a list format. A callout box labeled '검색창' (Search Bar) points to the search input field. Another callout box labeled '검색 결과 수' (Search Results Count) points to the text '58,757 Results for: All: multimedia'. A third callout box labeled 'Computing Literature 검색 확장' (Expand Computing Literature Search) points to the text 'Expand your search to The ACM Guide to Computing Literature (2,812,563 records)'. A fourth callout box labeled '검색결과 정렬' (Sort Search Results) points to the 'Relevance' dropdown menu. A fifth callout box labeled '검색결과 분류' (Classify Search Results) points to the 'RESULTS' tab. A sixth callout box labeled '검색 결과' (Search Results) points to the first search result, 'Multimedia recommendation'. A seventh callout box labeled '검색 필터 기능:' (Search Filter Function) points to the left sidebar, which contains filters for 'People' and 'Publications'. The sidebar includes categories like 'Names', 'Institutions', 'Authors', 'Editors', 'Advisors', 'Reviewers', 'Journal/Magazine Names', 'Proceedings/Book Names', and 'All Publications'. The main content area shows a search result for 'Multimedia recommendation' by Jialie Shen, Meng Wang, Shuicheng Yan, and Peng Cui, published in MM '12: Proceedings of the 20th ACM international conference on Multimedia in October 2012. The abstract text is visible, and there is a 'Get Access' button at the bottom right of the result.

검색 필터 기능:
-People
-Publications
-Conferences
-Reproducibility Badges
-Publication Date

검색 결과

4. 검색 - ACM ADVANCED SEARCH(상세검색)

- 초기화면 > "ADVANCED SEARCH"(상세검색) 이용 방법

ACM DL DIGITAL LIBRARY

Search

Advanced Search

Journals Magazines Proceedings Books SIGs Conferences People

Advanced Search

Search anything within the ACM Digital Library or go to your [Saved Searches](#)

Search items from:

Search Within

Filters

Publication Date All dates Last

Custom range
From:
To:

View Query Syntax

SEARCH TIPS for text fields

Boolean searches

Use the boolean operators AND, OR, and NOT to narrow or broaden your search results.

By default, an AND relationship is assumed between Search Within terms unless you specify a different operator in the Edit Query: input.

Exact match or that phrase

If no quotation marks are used, the search results will be populated with publications that contain your search terms somewhere in the text.

For example, if you search for "machine learning" the search engine will limit the results to publications that contain this exact phrase.

Wildcards

Use an asterisk (*) to specify any number of unknown characters. For example, if you search for comput*, the search engine will provide results that contain words such as compute, computation, computing, etc.

Use a question mark (?) to specify any single unknown character. For example, if

검색 범위 설정

검색 설정

검색 필터 설정

출판날짜 설정

검색어 입력

검색 키워드 추가

4. 검색 - JOURNALS

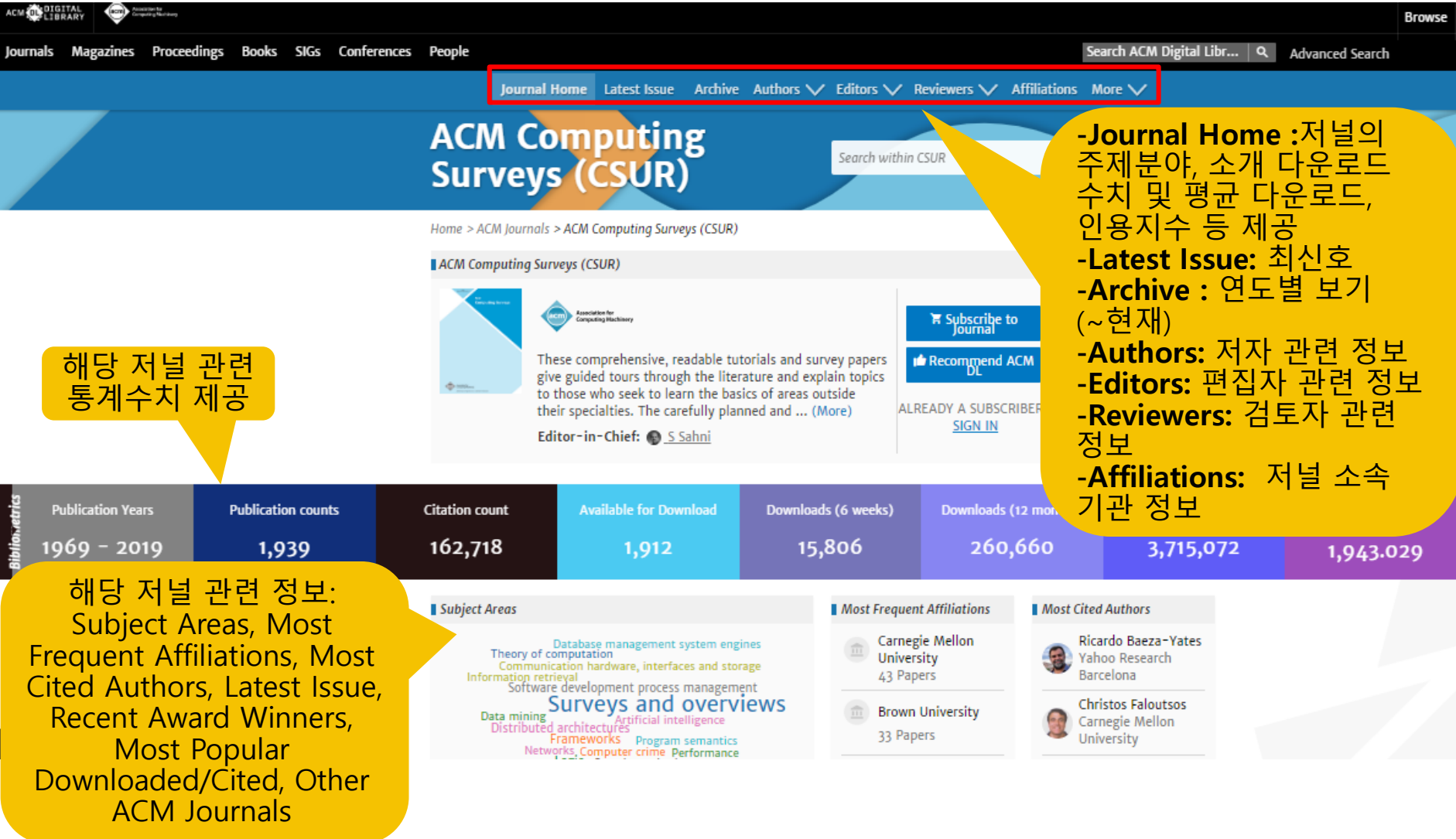
Browsing Journals

- 왼쪽 상단 > "Journals" Browsing시 첫 메인 화면

The screenshot shows the ACM Journals website. At the top, there is a navigation bar with 'Journals' highlighted in a red box. Below it is a search bar with the text 'Search within the ACM Journals'. A yellow callout bubble points to the search bar with the text 'ACM Journals 내 검색 가능'. Below the search bar, there is a 'View' section with 'Grid View' selected and 'List View' as an option. A yellow callout bubble points to this section with the text '모든 Journals 격자 또는 목록 보기'. The main content area displays a grid of journal covers, including CSUR, DGOV, DTRAP, HEALTH, IMWUT, JACM, JDIQ, JEA, JETC, JOCCH, PACMCGIT, PACMHCI, PACMPL, POMACS, TAAS, and TACCESS. A yellow callout bubble points to the grid with the text '50여종 이상의 Journals 목록'.

4. 검색 - JOURNALS

- Journals 메인화면 > Journals 목록에서 예) "CSUR ACM Computing Surveys" 저널 선택 시 결과 화면



The screenshot shows the ACM Computing Surveys (CSUR) journal page. A red box highlights the navigation menu: Journal Home, Latest Issue, Archive, Authors, Editors, Reviewers, Affiliations, and More. A yellow callout bubble explains these items: Journal Home (journal overview, download stats, etc.), Latest Issue (latest issue), Archive (yearly view), Authors (author info), Editors (editor info), Reviewers (reviewer info), and Affiliations (journal affiliation info).

Another yellow callout bubble points to the 'ACM Computing Surveys (CSUR)' title, stating: '해당 저널 관련 통계수치 제공' (Provide statistics related to this journal).

A third yellow callout bubble points to the 'Bibliometrics' table, stating: '해당 저널 관련 정보: Subject Areas, Most Frequent Affiliations, Most Cited Authors, Latest Issue, Recent Award Winners, Most Popular Downloaded/Cited, Other ACM Journals'.

The 'Bibliometrics' table shows the following data:

Publication Years	Publication counts	Citation count	Available for Download	Downloads (6 weeks)	Downloads (12 months)	Downloads (all time)
1969 - 2019	1,939	162,718	1,912	15,806	260,660	3,715,072
						1,943,029

The 'Subject Areas' section features a word cloud with 'Surveys and overviews' as the most prominent term. Other terms include Database management system engines, Theory of computation, Communication hardware, interfaces and storage, Information retrieval, Software development process management, Data mining, Distributed architectures, Artificial intelligence, Frameworks, Program semantics, Networks, Computer crime, and Performance.

The 'Most Frequent Affiliations' section lists:

- Carnegie Mellon University (43 Papers)
- Brown University (33 Papers)

The 'Most Cited Authors' section lists:

- Ricardo Baeza-Yates (Yahoo Research, Barcelona)
- Christos Faloutsos (Carnegie Mellon University)

- Journals>메인화면>특정 저널 선택 후 특정 Issue 선택 시 화면

The screenshot shows the ACM Digital Library interface. At the top, there are navigation tabs for Journals, Magazines, Proceedings, Books, SIGs, Conferences, and People. Below this is a search bar and a navigation menu with options like Journal Home, Latest Issue, Archive, Authors, Editors, Reviewers, Affiliations, Award Winners, and More. The main content area displays the article title, authors (Leibo Liu, Jianfeng Zhu, Zhaoshi Li, Yanan Lu, Yangdong Deng, Jie Han, Shouyi Yin), and publication information (ACM Computing Surveys (CSUR) • October 2019 • Article No.: 118). A red box highlights the authors and publication details. Another red box highlights the 'View all Formats' button, which includes options for HTML, eReader, and PDF. A yellow callout bubble on the left points to the authors and publication information, labeled '원문의 서지 정보'. A yellow callout bubble on the right points to the 'View all Formats' button, labeled '원문 열람/다운로드'. The article abstract is visible below the callouts.

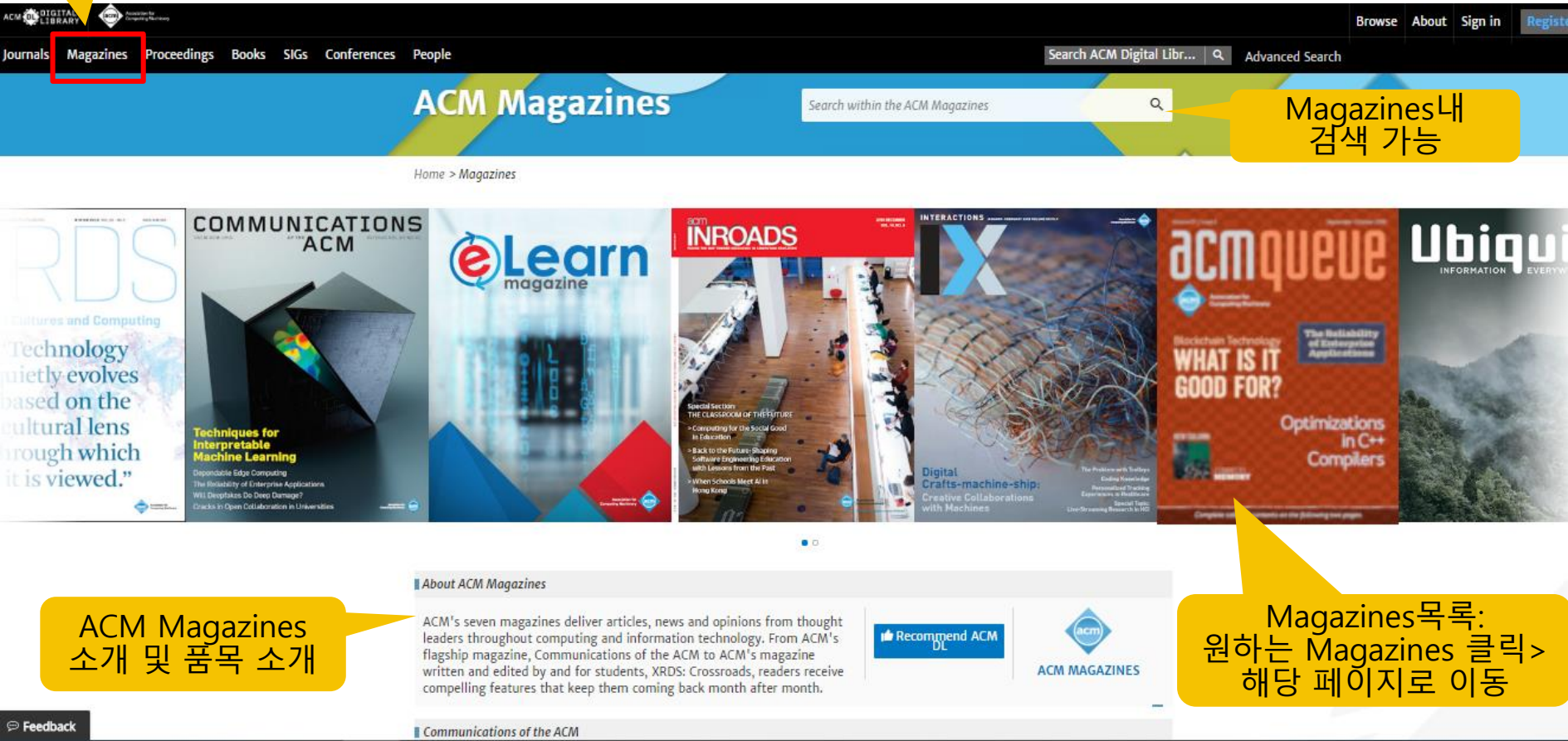
원문의 서지 정보

원문 열람/다운로드

4. 검색 - MAGAZINES

Browsing Magazines

- 왼쪽 상단 > "Magazines" Browsing시 첫 메인 화면



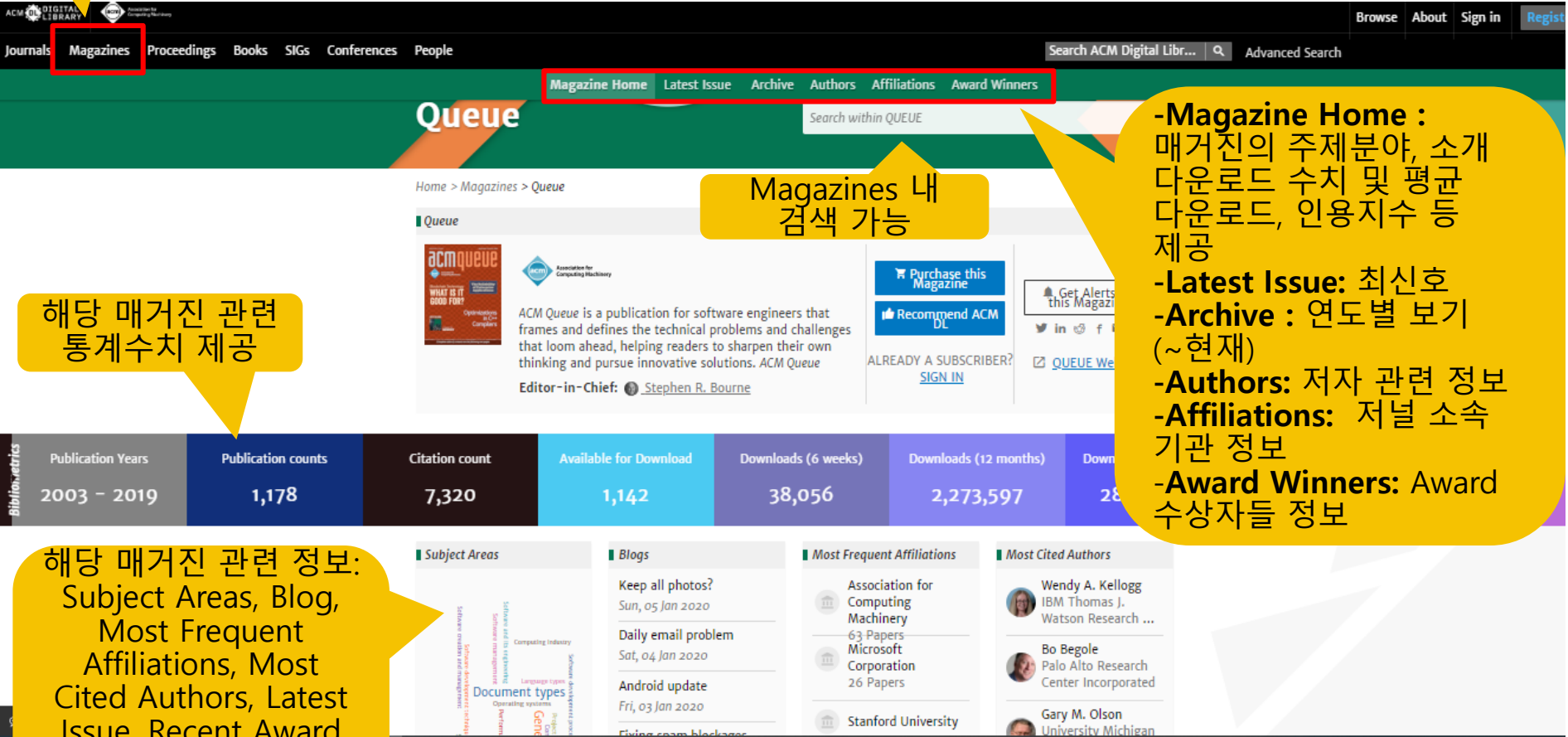
ACM Magazines 소개 및 품목 소개

Magazines 목록: 원하는 Magazines 클릭 > 해당 페이지로 이동

4. 검색 - MAGAZINES

Browsing Magazines

- Magazines 메인화면 > Magazines 목록에서 예) "ACM Queue" 클릭 시 결과 화면



The screenshot shows the ACM Queue magazine page. The navigation bar includes 'Magazines' (highlighted with a red box), 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. A search bar is located at the top right. Below the navigation bar, there are tabs for 'Magazine Home', 'Latest Issue', 'Archive', 'Authors', 'Affiliations', and 'Award Winners'. The main content area features a 'Queue' header, a search bar, and a description of the magazine. A 'Bibliometrics' section displays various statistics. Below this, there are sections for 'Subject Areas', 'Blogs', 'Most Frequent Affiliations', and 'Most Cited Authors'.

해당 매거진 관련 통계수치 제공

Magazines 내 검색 가능

-Magazine Home : 매거진의 주제분야, 소개 다운로드 수치 및 평균 다운로드, 인용지수 등 제공
 -Latest Issue: 최신호
 -Archive : 연도별 보기 (~현재)
 -Authors: 저자 관련 정보
 -Affiliations: 저널 소속 기관 정보
 -Award Winners: Award 수상자들 정보

해당 매거진 관련 정보: Subject Areas, Blog, Most Frequent Affiliations, Most Cited Authors, Latest Issue, Recent Award Winners, Most Popular

4. 검색 – PROCEEDINGS: ACM PROCEEDINGS

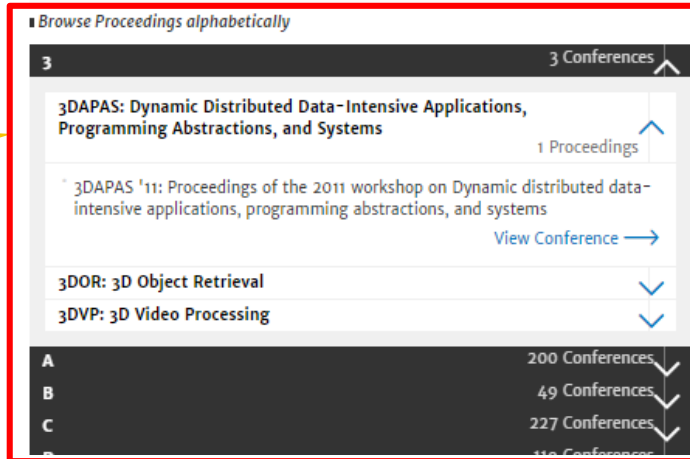
Browsing Proceedings

- 왼쪽 상단 > "Proceedings" Browsing시 첫 메인 화면

Proceedings내 검색 가능

타이틀별 Proceedings 검색

알파벳 순 Proceedings 목록



The screenshot shows the ACM Proceedings website interface. At the top, there is a navigation bar with 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. The 'Proceedings' link is highlighted with a red box. Below the navigation bar, there is a search bar with the text 'Search with ACM Proceedings'. To the right of the search bar, there is a yellow callout box with the text 'Proceedings내 검색 가능'. Below the search bar, there is a section titled 'ACM Proceedings' with a description of the service. To the right of this section, there is a search box with the text 'Search Proceedings by title:' and a 'Clear Search' link. Below this, there is a section titled 'Browse Proceedings alphabetically' with a list of conferences and their corresponding number of proceedings. The list is highlighted with a red box. The list includes:

- 3 DAPAS: Dynamic Distributed Data-Intensive Applications, Programming Abstractions, and Systems (1 Proceedings)
- 3 DOR: 3D Object Retrieval
- 3 DVP: 3D Video Processing

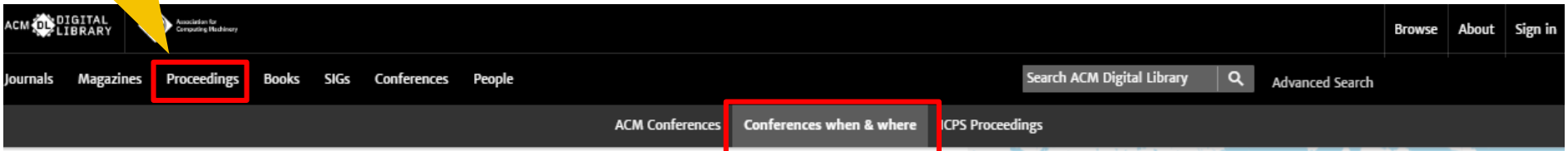
Below the list, there is a table of conferences:

Conference	Number of Conferences
A	200 Conferences
B	49 Conferences
C	227 Conferences
D	116 Conferences

4. 검색 – PROCEEDINGS: CONFERENCES WHERE & WHERE

Browsing Proceedings

- 왼쪽 상단 > "Proceedings" > "Conferences When&Where"



Home > Conferences > Upcoming events

ACM Conferences **Conferences when & where** ICPS Proceedings

Upcoming and Past Conferences

ACM's Special Interest Groups (SIGs) sponsor more than 170 computing conferences, workshops, and symposia around the world. These events, which mirror the state-of-the-art in their respective fields, attract renowned experts from a broad range of computing.

[View List of ACM Conferences](#) →

Search by Title

Choose from a specific SIG Choose Conference Apr 20, 2018 – Nov 13, 2020



City State Country

Clear All Search

Conferences 타이틀, 도시, 나라, 날짜 등의 정보로 검색가능

295 Results

Sort By: Latest

Conference Name	Date	Location	Official Website
 ESEC/FSE '20 Sponsor: SIGSOFT ESEC/FSE '20: ACM SIGSOFT International Symposium on the Foundations of Software Engineering	November 8 - 13, 2020	Sacramento, CA, USA	No Available Proceeding yet
 CHI PLAY '20 : Annual symposium	November 1 - 4, 2020	Shanghai, China	

검색 결과 목록



검색 결과 (지도 형식) - 지도에서 원하는 지역 클릭

4. 검색 – PROCEEDINGS: ICPS PROCEEDINGS

Browsing Proceedings

- 왼쪽 상단 > "Proceedings" > "ICPS Proceedings"

ACM Digital Library | Journals | Magazines | **Proceedings** | Books | SIGs | Conferences | People | Browse | About | Sign in

ACM Proceedings | Conferences when & where | **ICPS Proceedings**

International Conference Proceeding Series (ICPS)

Search within ICPS

Home > ICPS Proceedings

ICPS Proceedings

The ACM International Conference Proceeding Series (ICPS) provides a mechanism to publish the contents of conferences, technical symposia and workshops in the ACM Digital Library, increasing their visibility among the international computing community. ACM has published 45,000 research papers in the ACM Digital Library from over 1,350 conferences through the ICPS program since it was established in 2002. All ICPS ... [\(More\)](#)

Search Proceedings by title:

[Clear Search](#)

Browse Proceedings alphabetically

A	73 Conferences	▼
B	21 Conferences	▼
C	63 Conferences	▼
D	38 Conferences	▼
E	41 Conferences	▼
F	8 Conferences	▼
G	11 Conferences	▼
H	16 Conferences	▼

알파벳 순 International Conference Proceeding Series (ICPS) 목록

Browsing ACM Books
- 별도 구입 필요

- 왼쪽 상단 > "Books" Browsing시 첫 메인 화면

ACMBOOKS 내
검색 가능

최신 ACM Books
목록

4. 검색 - SIGS

- 왼쪽 상단 > "SIGs" Browsing시 첫 메인 화면

*Special Interest Groups(SIGs) : 컴퓨터공학 및 IT 분야의 37개의 주제별 전문가 집단

Browsing SIGs



Special Interest Groups (SIGs)

Search within SIGs

SIGs 내 검색 가능

Home > All Sigs

SIGs

ACM's Special Interest Groups (SIGs) are a primary source of original research and personal perspectives from the world's leading thinkers across a broad spectrum of computing disciplines. SIGs foster technical communities within their respective specialties and aim to advance the skills of their members, keeping them abreast of emerging trends and offering opportunities for networking with colleagues. SIGs publish newsletters and magazines, encourage excellence through multiple recognition programs, and organize conferences and activities on a local-to-global scale.

Recommend ACM DL



View : Grid View List View

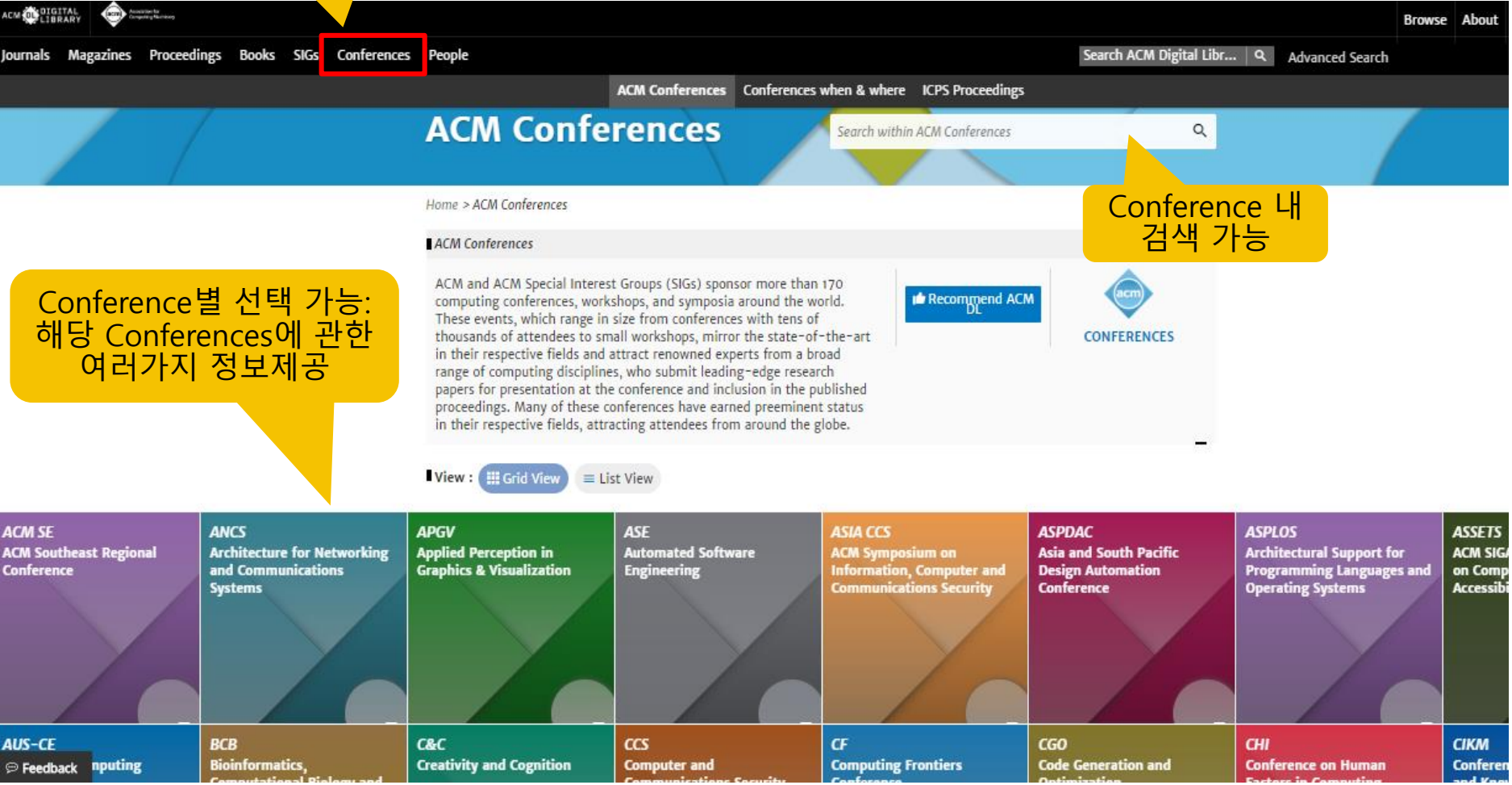
각각의 SIGs 들이 주최하는 Conference Proceeding 목록



4. 검색 - CONFERENCES

Browsing Conferences

- 왼쪽 상단 > "Conferences" Browsing시 첫 메인 화면



ACM Digital Library

Home > ACM Conferences

ACM Conferences

Search within ACM Conferences

ACM Conferences

ACM and ACM Special Interest Groups (SIGs) sponsor more than 170 computing conferences, workshops, and symposia around the world. These events, which range in size from conferences with tens of thousands of attendees to small workshops, mirror the state-of-the-art in their respective fields and attract renowned experts from a broad range of computing disciplines, who submit leading-edge research papers for presentation at the conference and inclusion in the published proceedings. Many of these conferences have earned preeminent status in their respective fields, attracting attendees from around the globe.

Recommend ACM DL

CONFERENCES

View: Grid View List View

ACM SE ACM Southeast Regional Conference	ANCS Architecture for Networking and Communications Systems	APGV Applied Perception in Graphics & Visualization	ASE Automated Software Engineering	ASIA CCS ACM Symposium on Information, Computer and Communications Security	ASPAC Asia and South Pacific Design Automation Conference	ASPLOS Architectural Support for Programming Languages and Operating Systems	ASSETS ACM SIGPLAN Conference on Computer-Supported Cooperative Work and Design
AUS-CE Feedback Computing	BCB Bioinformatics, Computational Biology and	C&C Creativity and Cognition	CCS Computer and Communications Security	CF Computing Frontiers Conference	CGO Code Generation and Optimization	CHI Conference on Human Factors in Computing Systems	CIKM Conference on Information and Knowledge Management

Browsing People

- 왼쪽 상단 > "People" Browsing시 첫 메인 화면

Home > People

People

The world's leading computer scientists, educators and practitioners submit their work for publication in ACM's proceedings, journals, magazines and books. Discover ACM's community of authors across the broad spectrum of computing disciplines through their ACM DL Author Profiles.

Authors: Claim your author profile, enhance it with your contact information and social identities, and build your connections.

Subjects

- Artificial Intelligence, Machine Learning, Computer Vision, Natural language processing
- Society and the Computing Profession
- Networks and Communications
- Human Computer Interaction
- Computational Theory, Algorithms and Mathematics

More (8) ▾

Affiliations

- Carnegie Mellon University (486)

Find by Name: Showing 1 - 20 of 22,400 Authors

per page 20 100 | Sort By: Latest Published ▾

Aljosa Smolic
University of Dublin, Trinity College

Jayesh S. Pillai
Indian Institute of Technology, Bombay

Chandra Krintz
University of California, Santa Barbara

View Profile Quick View

검색 필터 기능:
-Subjects
-Affiliations
-ACM Designations
-Geography
-Publication Date

ACM 출판물 관련
연구원, 교육자, 참여자,
등의 성명으로 검색 가능

4. 검색 – BROWSE: BROWSE DIGITAL LIBRARY

- 오른쪽 상단 > "Browse" Browsing시 첫 메인 화면

"Browse"로 검색

ACM DIGITAL LIBRARY Association for Computing Machinery

Search ACM Digital Library Advanced Search

Browse Digital Library Collections

Browse

Home > Browse by Title

View: **Browse by Title** Browse by Publisher

Please select a literature type:

Books 181,249 Titles View all 6,124 publishers	Periodicals 1,406 Titles View all 288 publishers	Proceedings 26,183 Titles View all 229 publishers
Theses 74,545 Titles	Technical Reports 25,461 Titles	RFC 3,694 Titles

Feedback

문헌 형식별 분류:
Books, Periodicals,
Proceedings, Theses,
Technical Reports,
RFC

Title 또는 Publisher별
Browsing 가능

4. 검색 – BROWSE: BROWSE DIGITAL LIBRARY

- 오른쪽 상단 > "Browse" Browsing시 첫 메인 화면

"Browse"로 검색

Browse

Browse Digital Library Collections

Collections

Home > Collections

■ Collections

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