

ACM DIGITAL LIBRARY 매뉴얼

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1. 출판사 소개
2. 수록내용
3. The ACM Digital Library
4. 주의 사항

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 여개국 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

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 56만건 이상, 3,250,000여 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 이용 방법

- ACM Digital Library URL: <https://dl.acm.org>

The screenshot shows the ACM Digital Library homepage with several key elements highlighted by red boxes and callouts:

- Navigation:** 'Browse' and 'About' buttons in the top right corner.
- Search:** A central search bar with a magnifying glass icon, and a link for 'Advanced Search' below it.
- Content:** A central banner with the text 'Recognizing that many computing researchers, practitioners, and academics continue to work remotely, the ACM DL has implemented several options for remote access through subscribing institutions. Please contact your library or ACM to request this access. dl-team@hq.acm.org'.
- Footer:** A 'Feedback' button in the bottom left and a 'Youtube Channel' button in the bottom right.

Annotations in Korean callouts provide further details:

- 'Title, Publisher 및 Collections 별 Browsing' (Browsing by Title, Publisher, and Collections).
- 'ACM DL 서비스 소개' (Introduction to ACM DL Service).
- 'BASIC SEARCH (일반검색)' (Basic Search (General Search)).
- 'Advanced Search (상세검색)' (Advanced Search (Detailed Search)).
- 'ACM Youtube 채널 이동: 최신 소식 동영상' (ACM Youtube Channel Move: Latest News Video).
- '최신 ACM 및 콘텐츠 별 소식' (Latest ACM and Content-specific News).

3. The ACM Digital Library 이용 방법

- ACM Journal Browsing : ACM DL Home > "Journals" - 전체 저널 확인

The screenshot shows the ACM Digital Library website interface. At the top, there is a navigation bar with 'Journals' highlighted. Below it is a search bar with the text 'Search within the ACM Journals'. A red box highlights the 'Journals' menu item with the annotation '전체 저널 리스트 보기'. Another red box highlights the search bar with the annotation 'ACM 저널 내 키워드 검색'. Below the search bar, there is a section titled 'About ACM Journals' with a 'Recommend ACM DL' button. A red box highlights the 'View' options (Grid View and List View) with the annotation '모든 저널 격자 보기 또는 리스트 보기'. Below this, there is a grid of journal covers with the annotation '50종 이상의 ACM DL 저널'. The grid contains the following journals:

COLINT Collective Intelligence	CSUR ACM Computing Surveys	DGOV Digital Government: Research and Practice	DTRAP Digital Threats: Research and Practice	HEALTH ACM Transactions on Computing for Healthcare	IMWUT Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies
JACM	JDIQ	JEA	JETC	JOCCH	PACMCGIT

3. The ACM Digital Library 이용 방법

- ACM Journal Browsing : "ACM Computing Surveys" 접속

저널 내 검색

해당 저널 관련 정보:

- Subject Areas
- Announcements
- Most Frequent Affiliations
- Most Cited Authors
- Latest Issue
- Recent Award Winners
- Most Popular Downloaded/Cited

해당 저널 관련 수치 정보 제공

Publication Years	Publication count	Citation count	Available for Download	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)	Average Downloads per Article	Average Citation per Article
1969 - 2021	2,309	3,874	2,282	74,120	570,317	4,835,605	2.110	88

Journal Home : 저널 주제분야 및 다운로드, 인용지수 등 정보 제공

Just Accepted : 최근 승인되어 정식 출판 전의 아티클 제공

Latest Issue : 최신호

Archive : 연도별 보기 (~현재)

Authors : 저자 관련 정보

Editors : 편집자 관련 정보

Reviewers : 검토자 관련 정보

About : 기타 저널 관련 정보

Subject Areas | Announcements | Most Frequent Affiliations | Most Cited Authors

3. The ACM Digital Library 이용 방법

- ACM Magazines Browsing : ACM DL Home > "Magazines" – 전체 매거진 확인

The screenshot shows the ACM Digital Library website. The 'Magazines' menu item is highlighted with a red box and a callout bubble that says '전체 매거진 리스트 보기' (View full magazine list). A search bar is also highlighted with a red box and a callout bubble that says 'ACM 매거진 내 키워드 검색' (Search for keywords within ACM magazines). Below the search bar, there are several magazine covers: XRDS, Communications of the ACM, eLearn magazine, and ACM Inroads. A callout bubble points to the 'ACM Inroads' cover with the text '원하는 매거진 클릭 > 해당 페이지로 이동' (Click the magazine you want > Move to the corresponding page). At the bottom, there is a section titled 'About ACM Magazines' with a callout bubble that says 'ACM 매거진 소개 및 각 매거진 별 최신 이슈 및 아티클 소개' (Introduction to ACM magazines and latest issues and articles for each magazine). A 'Recommend ACM DL' button is also visible.

3. The ACM Digital Library 이용 방법

- ACM Magazines Browsing : "ACM Queue" 접속

The screenshot shows the ACM Digital Library interface. The 'Magazines' tab is selected in the top navigation bar. The 'Magazine Home' sub-tab is also selected. A search bar is present with the text 'Search within QUEUE'. Below the navigation, there are buttons for 'Purchase this Magazine', 'Recommend ACM DL', and 'Get Alerts for this Magazine'. A statistics table is displayed at the bottom, and a list of related links is provided below it.

Callouts:

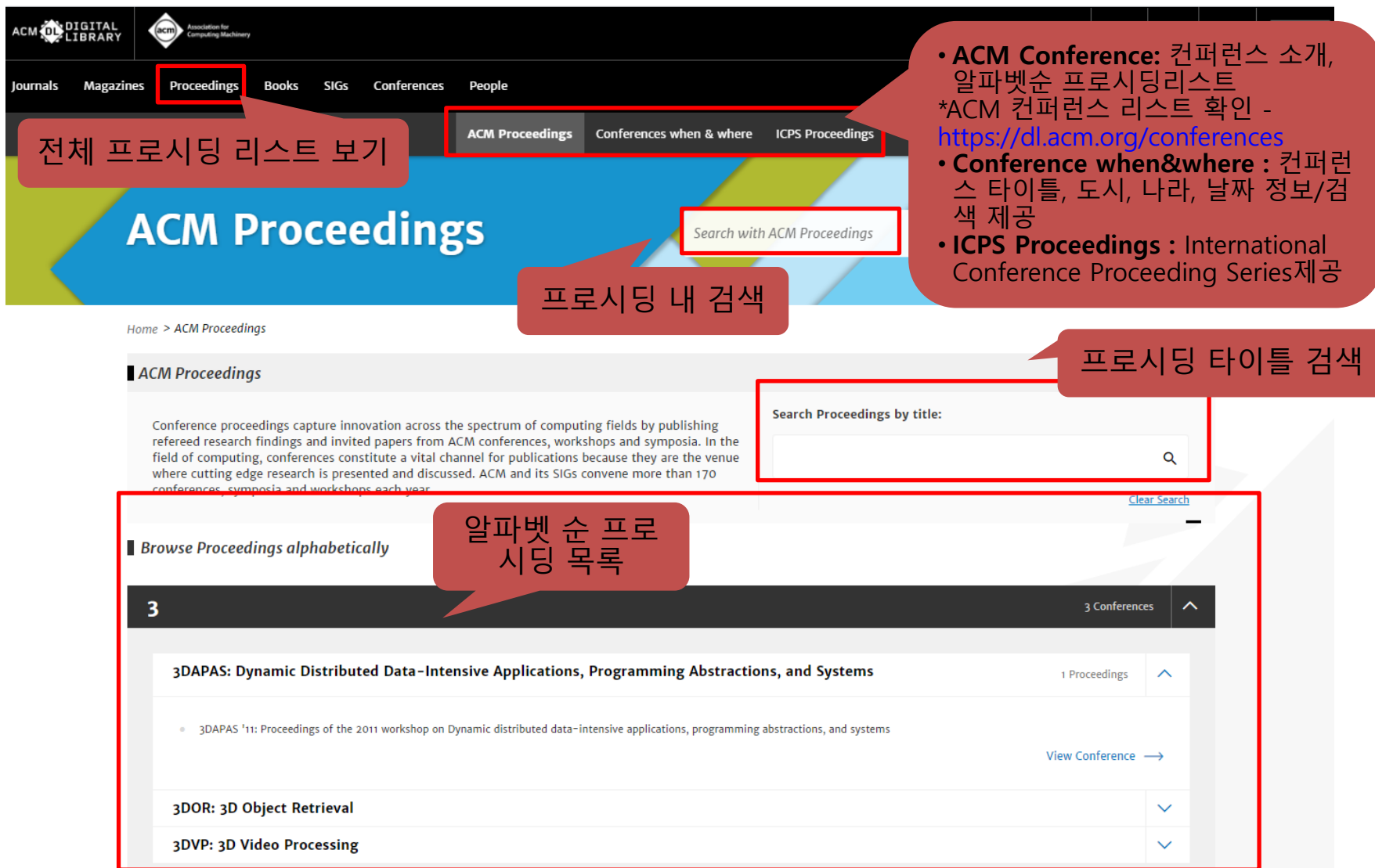
- Magazine Home :** 매거진 주제 분야, 다운로드 수치 및 평균 다운로드, 인용지수 등 제공
- Latest Issue:** 최신호
- Archive :** 연도별 보기 (~현재)
- Authors:** 저자 관련 정보
- Affiliations:** 관련 기관 정보
- Award Winners:** 수상자 정보
- 매거진 내 검색**
- 해당 매거진 관련 정보**
 - Subject Areas
 - Blog
 - Most Frequent Affiliations
 - Most Cited Authors
 - Latest Issue
 - Recent Award Winners
 - Most Popular Downloaded/Cited
- 해당 매거진 관련 수치 정보 제공**

Publication years	Publication counts	Citation count	Available for Download	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)	Average Downloads per Article	Average Citation per Article
2003 - 2020	1,223	8,464	1,190	190,757	1,911,644	31,157,053	26,182	7

Related Links: Subject Areas, Blogs, Most Frequent Affiliations, Most Cited Authors

3. The ACM Digital Library 이용 방법

- ACM Proceedings Browsing : ACM DL Home>"Proceedings" – 전체 프로시딩 확인



The screenshot shows the ACM Digital Library website with the 'Proceedings' menu item highlighted. A callout points to the 'ACM Proceedings' sub-menu, and another points to the 'Search with ACM Proceedings' button. A large callout on the right explains the three main categories: ACM Conference (with a URL), Conference when&where, and ICPS Proceedings. Below the main banner, a search box for 'Search Proceedings by title:' is shown with a callout. The 'Browse Proceedings alphabetically' section is also highlighted with a callout, showing a list of conferences like 3DAPAS, 3DOR, and 3DVP.

전체 프로시딩 리스트 보기

ACM Proceedings Conferences when & where ICPS Proceedings

ACM Proceedings

Search with ACM Proceedings

프로시딩 내 검색

- **ACM Conference:** 컨퍼런스 소개, 알파벳순 프로시딩리스트
*ACM 컨퍼런스 리스트 확인 - <https://dl.acm.org/conferences>
- **Conference when&where :** 컨퍼런스 타이틀, 도시, 나라, 날짜 정보/검색 제공
- **ICPS Proceedings :** International Conference Proceeding Series 제공

Home > ACM Proceedings

ACM Proceedings

Conference proceedings capture innovation across the spectrum of computing fields by publishing refereed research findings and invited papers from ACM conferences, workshops and symposia. In the field of computing, conferences constitute a vital channel for publications because they are the venue where cutting edge research is presented and discussed. ACM and its SIGs convene more than 170 conferences, symposia and workshops each year.

Search Proceedings by title:

Clear Search

Browse Proceedings alphabetically

알파벳 순 프로시딩 목록

3 Conferences

3DAPAS: Dynamic Distributed Data-Intensive Applications, Programming Abstractions, and Systems	1 Proceedings
• 3DAPAS '11: Proceedings of the 2011 workshop on Dynamic distributed data-intensive applications, programming abstractions, and systems	
View Conference →	
3DOR: 3D Object Retrieval	
3DVP: 3D Video Processing	

3. The ACM Digital Library 이용 방법

- ACM SIGs Browsing : ACM DL Home > "SIGs" – 전체 SIG 확인

The screenshot shows the ACM Digital Library website's Special Interest Groups (SIGs) page. The navigation bar includes 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. A red box highlights the 'SIGs' menu item, with a callout bubble containing the text '전체 SIG 보기'. Below the navigation bar is a large blue banner with the text 'Special Interest Groups (SIGs)'. A search bar within this banner is labeled 'Search within SIGs' and has a callout bubble 'SIG 내 검색'. Below the banner, the breadcrumb 'Home > All Sigs' is visible. A text block describes SIGs as a primary source of original research. A blue button 'Recommend ACM DL' is present. A 'View:' section has 'Grid View' selected and 'List View' as an option. A grid of 12 SIG cards is shown, each with a title and a brief description. A callout bubble points to the grid with the text '모든 SIG 격자 또는 리스트 보기'. Another callout bubble points to the grid with the text '각 SIG에서 주최하는 Conference Proceeding 목록'.

전체 SIG 보기

Search within SIGs

SIG 내 검색

Home > All Sigs

SIGs

ACM's Special Interest Groups (SIGs) are a primary source of original research and personal perspectives across a broad spectrum of computing disciplines. SIGs foster technical communities and aim to advance the skills of their members, keeping abreast of new opportunities for networking with colleagues. SIGs publish proceedings and organize conferences through multiple recognition programs, and organize events on a global scale.

Recommend ACM DL

View : Grid View List View

모든 SIG 격자 또는 리스트 보기

각 SIG에서 주최하는 Conference Proceeding 목록

SIGACCESS Special Interest Group on Accessibility and Computing	SIGACT Special Interest Group on Algorithms & Computation Theory	SIGADA Special Interest Group on Ada Programming Language	SIGAI Special Interest Group on Artificial Intelligence	SIGAPP Special Interest Group on Applied Computing	SIGARCH Special Interest Group on Computer Architecture
SIGBED Special Interest Group on Embedded Systems	SIGBIO Special Interest Group on Bioinformatics	SIGCAS Special Interest Group on Computer Architecture and Systems	SIGCHI Special Interest Group on Human-Computer Interaction	SIGCOMM Special Interest Group on Data Communication and Networks	SIGCSE Special Interest Group on Computer Science Education

3. The ACM Digital Library 이용 방법

- ACM Conference Browsing : ACM DL Home>"Conferences" – 전체 컨퍼런스 확인

The screenshot shows the ACM Digital Library website's 'Conferences' page. The navigation bar includes 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. The 'Conferences' menu item is highlighted with a red box and a callout bubble containing the text '전체 컨퍼런스 보기'. Below the navigation bar, there is a search bar with the text 'Search within ACM Conferences' and a magnifying glass icon, with a callout bubble '컨퍼런스 내 검색'. The main content area features a 'View:' section with 'Grid View' and 'List View' buttons, with a callout bubble '모든 컨퍼런스 격자 또는 리스트 보기'. Below this, there is a 'Recommend ACM DL' button and an 'ACM CONFERENCES' logo. At the bottom, there is a row of six conference cards: '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', and 'ASPDAC Asia and South Pacific Design Automation Conference'. A callout bubble 'Conference별 정보제공' points to this row.

3. THE ACM DIGITAL LIBRARY 이용 방법

- ACM Browsing : ACM DL Home > "Browse" - 전체 콘텐츠 브라우징

The screenshot shows the ACM Digital Library 'Browse' page. The top navigation bar includes 'Browse', 'About', 'Sign in', and 'Register'. Below this is a secondary navigation bar with 'Browse Digital Library' and 'Collections'. The main content area is titled 'Browse' and shows a breadcrumb 'Home > Browse by Title'. Underneath, there are two buttons: 'Browse by Title' (selected) and 'Browse by Publisher'. Below these buttons, a section titled 'Please select a literature type:' contains six cards: Books (181,748 Titles), Periodicals (1,407 Titles), Proceedings, Theses (109,003 Titles), Technical Reports (25,462 Titles), and RFCs. Annotations in red boxes and speech bubbles highlight the 'Browse' button, the 'Browse by Title/Publisher' options, the 'Periodicals' card, and the filtering options for the literature types.

Browse

Home > Browse by Title

Browse

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

Please select a literature type:

Books 181,748 Titles View all 6,122 publishers	Periodicals 1,407 Titles View all 288 publishers	Proceedings
Theses 109,003 Titles View all 1,125 publishers	Technical Reports 25,462 Titles View all 187 publishers	RFC View all 1 publishers

"Browse" 페이지 이동

Title 또는 Publisher별 Browsing 가능

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

문헌 형식 필터링 후 Alphabetical, Publishers, People, Author Keywords, Primary CCS, Publication Data 별 열람 가능

3. THE ACM DIGITAL LIBRARY 이용 방법

- ACM Browsing : ACM DL Home > "Browse" > "Collections" – 전체 컬렉션 브라우징

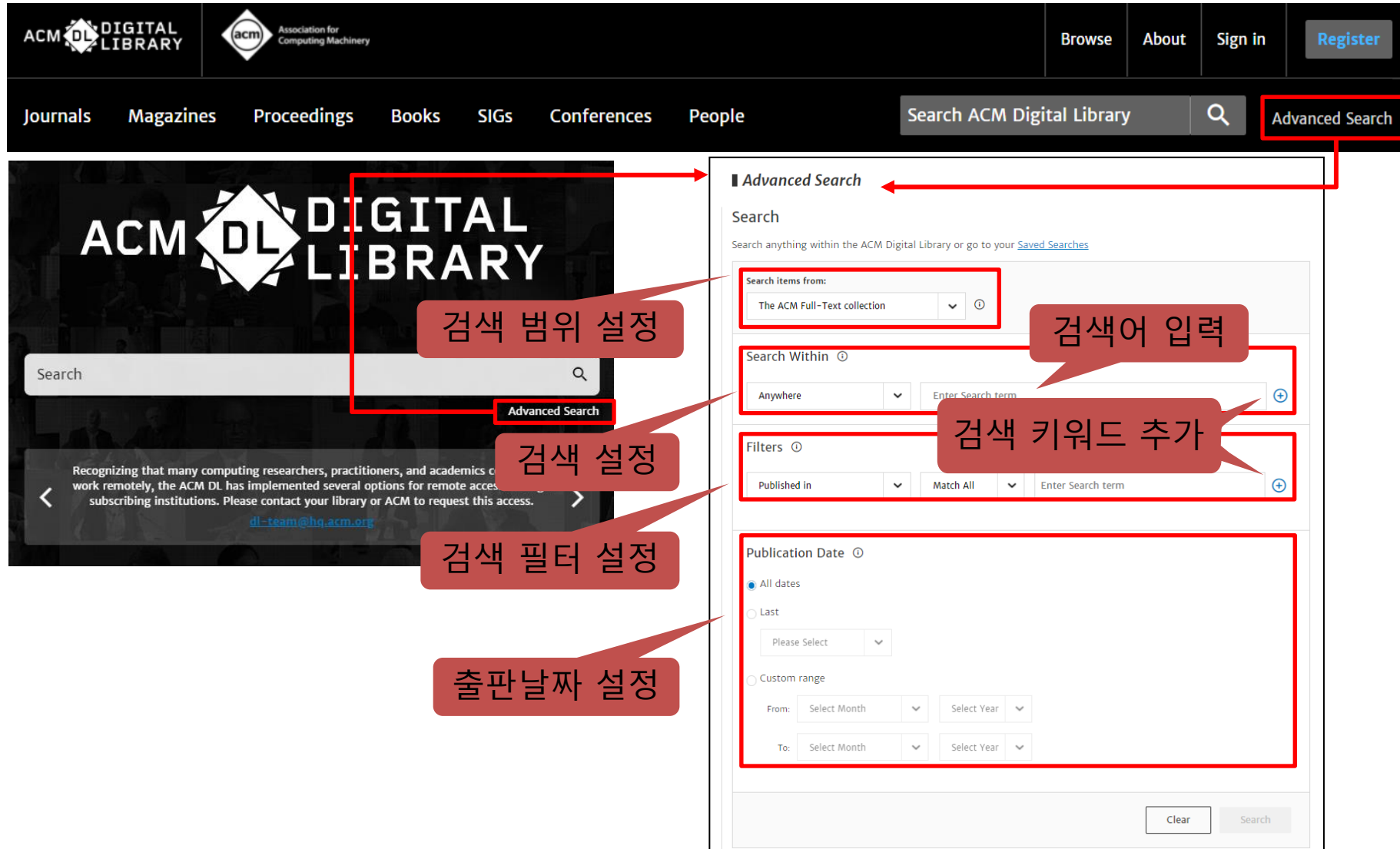
The screenshot shows the ACM Digital Library website. The top navigation bar includes 'Browse', 'About', 'Sign in', and 'Register'. The 'Browse' button is highlighted with a red box. Below the navigation bar, there are links for 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. A search bar is also present. The main content area is titled 'Collections' and features a grid of collection cards. Each card includes a title, a brief description, and a 'View More' link. The cards are: 'ACM International Conference Proceeding Series (ICPS)', 'ACM Classic Book Series', 'Hosted Content', 'ACM Oral History interviews', 'ACM Curricula Recommendations', 'NSF Workshop Reports', 'Dataset Artifacts', 'Software Artifacts', and 'Computing Reviews'. A red box highlights the entire grid of collection cards. Three red callout boxes provide instructions: one points to the 'Browse' button, another points to the 'Collections' link in the breadcrumb trail, and a third points to the grid of collection cards.

Annotations:

- "Browse"페이지 이동
- Collections별 Browsing 가능
- 원하는 Collections 선택 후 해당 컬렉션 관련 자료 열람

3. The ACM Digital Library 이용 방법

- ACM Advanced Search : ACM DL Home > Advanced Search 페이지 검색



The screenshot shows the ACM Digital Library website with the 'Advanced Search' page highlighted. Red callouts point to various search options:

- 검색 범위 설정** (Search Scope Setting): Points to the 'Search Items from:' dropdown menu.
- 검색어 입력** (Search Term Input): Points to the 'Enter Search term' input field.
- 검색 키워드 추가** (Add Search Keyword): Points to the plus sign icon next to the search term input field.
- 검색 설정** (Search Settings): Points to the 'Search Within' dropdown menu.
- 검색 필터 설정** (Search Filter Setting): Points to the 'Filters' section.
- 출판날짜 설정** (Publication Date Setting): Points to the 'Publication Date' section.

3. The ACM Digital Library 이용 방법

- ACM Basic Search : ACM DL Home > 검색창 "Multimedia" 검색

The screenshot shows the ACM Digital Library search results page. The search term is "Multimedia", resulting in 61,383 records. The page includes a navigation menu, a search bar, and a list of search results. Annotations in Korean provide additional context:

- 검색창**: Points to the search input field.
- 검색 결과 수, 검색 편집**: Points to the result count and "Edit Search" button.
- Computing Literature 검색 확장**: Points to the "Expand your search to The ACM Guide to Computing Literature" link.
- 유형별 검색결과 분류**: Points to the "RESULTS" tab.
- 검색 결과 원문**: Points to the "Relevance" dropdown menu.
- 검색 결과 정렬**: Points to the "Relevance" dropdown menu.
- 검색 필터 기능:**
 - People
 - Publications
 - Conferences
 - Reproducibility Badges
 - Publication Date

3. The ACM Digital Library 이용 방법

- ACM Article: ACM DL Home > 검색 결과 > 원문 보기

The screenshot shows the ACM Digital Library interface for a research article. The article title is "Multimedia learning object to build cognitive understanding in learning introductory programming". The authors listed are Reginamary Matthews, Hew Soon Hin, and Koo Ah Choo. The publication information is MoMM '09: Proceedings of the 7th International Conference on Advances in Mobile Computing and Multimedia, December 2009, pages 396-400. The page includes a navigation menu, a search bar, and a sidebar with options like Abstract, References, Index Terms, and Comments. Annotations in red boxes and callouts highlight specific features: "원문의 서지 정보" (Bibliographic information of the original document) points to the authors and publication details; "바로가기" (Quick links) points to the sidebar menu; "초록 보기" (View abstract) points to the abstract text; and "원문 열람/다운로드" (View/Download original document) points to the eReader and PDF buttons.

원문의 서지 정보

- 바로가기
- Abstract
 - Refereces
 - Index Terms
 - Comments

초록 보기

원문 열람/다운로드

<ACM IP Block 관련 주의 사항>

특정 IP대역에서 연구 목적 또는 이용자 계정 불법 사용/해킹 등으로 ACM Full Text **과다 다운로드** 시 ACM Server에서 해당 PC IP대역을 자동 차단합니다.

자동 차단과 동시에 해당 IP대역에서 원문 열람이 불가하고, IP Block 안내 문구가 나타납니다.

ACM에서는 기관 담당자에게 위 사실을 E-mail로 통보하며 차단된 IP 대역의 Access 복구를 위하여, 과다 다운로드에 대한 자세한 조사 내역과 과다 다운로드 예방을 위한 기관 내 사후조치를 명시한 사유서 등을 기관 담당자에게 요청할 수 있습니다.

ACM 이용자분들께서는 불법/대량 다운로드 프로그램/시스템 이용을 삼가 주시고 단 시간 내 과도한 ACM Full Text 다운로드를 자제하여 주시기 바랍니다.

감사합니다.



신원데이터넷

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