

ACM Open

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Association for
Computing Machinery

Advancing Computing as a Science & Profession

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 여개 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 Community 형성하고 있음

SIG(Special Interest Groups)

- ACM 내 소 주제분야 관련 분과회
- 전세계 170여개의 컨퍼런스, 워크샵, 심포지엄을 주관
- 컴퓨터 IT 관련 분야의 38개 분과에서 관련 연구 및 정보 교환

EIGREP	Emerging Interest Group on Reproducibility and Replicability	SIGIR	Special Interest Group on Information Retrieval
SIGACCESS	Special Interest Group on Accessible Computing	SIGITE	Special Interest Group on Information Technology Education
SIGACT	Special Interest Group on Algorithms & Computation Theory	SIGKDD	Special Interest Group on Knowledge Discovery and Data Mining
SIGAI	Special Interest Group on Artificial Intelligence	SIGLOG	Special Interest Group on Logic and Computation
SIGAPP	Special Interest Group on Applied Computing	SIGMETRICS	Special Interest Group on Measurement and Evaluation
SIGARCH	Special Interest Group on Computer Architecture	SIGMICRO	Special Interest Group on Microarchitecture
SIGBED	Special Interest Group on Embedded Systems	SIGMIS	Special Interest Group on Management Information Systems
SIGBio	Special Interest Group on Bioinformatics, Computational Biology	SIGMM	Special Interest Group on Multimedia Systems
SIGCAS	Special Interest Group on Computers and Society	SIGMOBILE	Special Interest Group on Mobility of Systems, Users, Data & Comp
SIGCHI	Special Interest Group on Computer	SIGMOD	Special Interest Group on Management of Data
SIGCOMM	Special Interest Group on Data Communication	SIGOPS	Special Interest Group on Operating Systems
SIGCSE	Special Interest Group on Computer Science Education	SIGPLAN	Special Interest Group on Programming Languages ()
SIGDA	Special Interest Group on Design Automation	SIGSAC	Special Interest Group on Security, Audit and Control
SIGDOC	Special Interest Group on Design of Communication	SIGSAM	Special Interest Group on Symbolic & Algebraic Manipulation
SIGecom	Special Interest Group on Economics and Computation	SIGSIM	Special Interest Group for Simulation and Modeling
SIGEnergy	ACM Special Interest Group on Energy Systems and Informatics	SIGSOFT	SIGSOFT Software Engineering
SIGEVO	Special Interest Group on Genetic and Evolutionary Computation	SIGSPATIAL	Special Interest Group on Spatial Information
SIGGRAPH	Special Interest Group on Computer Graphics and Interactive Techniques	SIGUCCS	Special Interest Group on University & College Computing Services
SIGHPC	Special Interest Group on High Performance Computing	SIGWEB	Special Interest Group on Hypertext, Hypermedia and Web

ACM Open



컴퓨터 공학 분야의 적극적인 연구 지원을 위해 참여기관 소속 저자의 Open Access Article 무료 출판을 제공하며, ACM Digital Library 콘텐츠에 대한 무제한 이용을 제공합니다.

*ACM Open Access Article 출판 비용(APC, Article Processing Charge) 면제

: ACM Open 참여기관 소속 저자가 교신저자로서 **ACM에서 출판하는** Journals, Magazine, Transaction, Conference Proceeding에 Open Access Article 출판 시 등록된 기관 이메일 도메인 인증을 통해 출판 비용 자동 면제

*ACM Digital Library Premium Edition Access

- ACM Digital Library 플랫폼을 통해 제공되는 ACM에서 출판하는 콘텐츠 뿐만 아니라 파트너 출판사 콘텐츠를 포함한 70종 이상의 컴퓨터 공학 분야 Journals, Technical Magazines, Newsletters 제공
- ACM 출판 및 IEEE와 공동 출판하는 약 1만 4천 건의 Conference proceedings 제공
- 8천개+ 출판사 콘텐츠를 포괄하는 종합 색인 및 초록 서비스 ACM Guide to Computing Literature 무제한 접근 제공
- 더 깊은 발견, 분석, 협업 기능이 필요한 도서관, 기관 및 연구자 지원을 위해 설계된 고급 도구와 부가가치 서비스 제공
- *요약, 팟캐스트, 추천을 포함한 AI 지원 기능, 고급 검색/필터링/연구 Insights, 대량 다운로드/검색 저장 및 알림, 저자 및 기관 프로필 접속 기능' 등

ACM Open 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

3. ACM Digital Library Premium Edition 이용 방법

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

The screenshot shows the ACM Digital Library Premium Edition website. At the top, there are logos for ACM Digital Library and the Association for Computing Machinery. A navigation bar includes 'Premium Edition', 'acm open', and '기관/이용자 정보'. Below this is a menu with 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', 'Institutions', and 'People'. The main header features the 'ACM DL DIGITAL LIBRARY' logo. A search bar is present with a '키워드 검색' callout. A large blue callout box contains text about the 2026 transition to Premium Edition. A 'Feedback' button is on the right. A central banner reads 'ACM is now Open Access' with a sub-message about new features for researchers. At the bottom right, a 'Youtube Channel' button is highlighted with a callout about the channel's move.

ACM Digital Library Premium Edition

기관/이용자 정보

Journals Magazines Proceedings Books SIGs Conferences Institutions People

ACM DL DIGITAL LIBRARY

키워드 검색 Search

Advanced Search (상세검색)

ACM is now Open Access

As part of the Digital Library's transition to Open Access, new features for researchers are available as the *Digital Library Premium Edition*

ACM Youtube 채널 이동: 최신 소식 동영상

Youtube Channel

3. ACM Digital Library Premium Edition 이용 방법

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

The screenshot shows the ACM Digital Library Journals page. The top navigation bar includes 'Premium Edition', 'acm open', and '기관/이용자 정보'. The main menu has 'Journals' highlighted. A search bar is present with the text 'Search within the ACM Journals'. Below the header, there is a section titled 'About ACM Journals' with a description of the journal collection. A 'View' section shows 'Grid View' and 'List View' options. At the bottom, a grid of journal covers is displayed, including titles like ACMJCSS, ACMJDS, AILET, COLA, CSUR, DGOV, DLT, DTRAP, FAC, GAMES, HEALTH, and IMWUT.

Annotations on the page include:

- 전체 저널 리스트 보기 (View full journal list)
- ACM 저널 내 키워드 검색 (Search for keywords within ACM journals)
- 모든 저널 격자 보기 또는 리스트 보기 (View all journals in grid or list view)
- 70종 이상의 ACM DL 저널 (70+ ACM DL journals)

3. ACM Digital Library Premium Edition 이용 방법

- ACM Journal Browsing : ACM DL Home > "Journals" "ACM Computing Surveys" 접속

Journal Home Just Accepted Latest Issue Archive Authors Editors Reviewers About Contact Us

Search within CSUR

Home > ACM Journals > ACM Computing Surveys

These comprehensive, readable surveys and tutorial papers give guided tours through the literature and explain topics to those who seek to learn the basics of areas outside their specialties in an accessible way. The carefully planned and presented introductions in *Computing Surveys (CSUR)* are also an excellent way for researchers and professionals to develop perspectives on, and identify trends in complex technologies. Contributions ... (More)

Editor-in-Chief: My I. Thai, Hanghang Tong

Publication Years	Publication Count	Available for Download	Citation Count	Downloads (6 weeks)	Downloads (12 months)
1969 - 2026	3,515	3,488	372,765	511,460	3,598,896

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

- **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

저널 내 검색

해당 저널 관련 수치 정보 제공

- 해당 저널 관련 정보:
- Subject Areas
 - Announcements
 - Most Frequent Affiliations
 - Most Cited Authors
 - Latest Issue
 - Recent Award Winners
 - Most Popular Downloaded/Cited

3. ACM Digital Library Premium Edition 이용 방법

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

ACM DIGITAL LIBRARY Association for Computing Machinery Premium Edition acm open > 기관/이용자 정보

Journals **Magazines** Proceedings Books SIGs Conferences Institutions People Search ACM Digital Library Advanced Search

전체 매거진 리스트 보기

Search within the ACM Magazines

ACM 매거진 내 키워드 검색

원하는 매거진 클릭 > 해당 페이지로 이동

Home > Magazines

About ACM Magazines

ACM's seven magazines deliver articles, news and opinions from thought leaders throughout computing and information technology. From ACM's flagship magazine, Communications of the ACM to ACM's magazine written and edited by and for students, XRDS: Crossroads, readers receive compelling features that keep them coming back month after month.

ACM MAGAZINES

Communications of the ACM

3. ACM Digital Library Premium Edition 이용 방법

- ACM Magazines Browsing : "XRDS" 접속

Navigation: Journals, **Magazines**, Proceedings, Books, SIGs, Conferences, Institutions, People

Search: Search ACM Digital Library, Advanced Search

Magazine Home: Magazine Home, Latest Issue, Archive, Authors, Affiliations, Award Winners

XRDS: Crossroads, The ACM Magazine for Students

Home > Magazines > XRDS: Crossroads, The ACM Magazine for Students

XRDS: Crossroads, The ACM Magazine for Students

Established in 1994 and published quarterly, XRDS, formerly Crossroads, is the official ACM magazine for student members. Each issue features a theme, such as "Wearable Computing" or "Health Informatics," and XRDS brings exciting research trends, interviews, columns, and even career advice articles related to that theme and relevant to computer science students. The magazine also lists major conferences, calls for papers, grants and ... (More)

Editor-in-Chief: [liayi Li](#)

Statistics Table:

Count	Available for Download	Citation Count	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)	Average Citations per Article	Average Downloads per Article
9	1,657	5,087	10,846	102,369	1,187,327	3	717

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

- **Magazine Home :** 매거진 주제분야, 다운로드/인용지수 등 제공
- **Latest Issue:** 최신포
- **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**
 - **Most Frequent Affiliations**
 - **Most Cited Authors**
 - Latest Issue
 - **Recent Award Winners**
 - **Most Popular Downloaded/Cited**

해당 매거진 관련 수치 정보

3. ACM Digital Library Premium Edition 이용 방법

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

The screenshot shows the ACM Digital Library website interface. The navigation bar includes 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', 'Institutions', and 'People'. The 'Proceedings' menu is highlighted with a red box and a callout '전체 프로시딩 리스트 보기'. Below the navigation bar, there are sub-menus for 'ACM Proceedings', 'Conferences when & where', and 'ICPS Proceedings', with a callout '프로시딩 내 검색'. A search bar is present with the text 'Search within the ACM Proceedings' and a callout '프로시딩 내 검색'. The main content area features a search box labeled 'Search Proceedings by title:' with a callout '프로시딩 타이틀 검색' and a search button. Below the search box, there is a section titled 'Browse Proceedings alphabetically' with a callout '알파벳 순 프로시딩 목록'. This section displays a list of conferences, including '3D-Sec: Deepfake, Deception, and Disinformation Security' and '3DAPAS: Dynamic Distributed Data-Intensive Applications, Programming Abstractions, and Systems'. The page also includes a 'Premium Edition' badge and a '기관/이용자 정보' link in the top right corner.

- **ACM Proceedings:** 프로시딩 소개/리스트
- **Conference when&where :** 컨퍼런스 타이틀, 나라, 도시, 일자 정보/검색 제공
- **ICPS Proceedings :** International Conference Proceeding Series제공

3. ACM Digital Library Premium Edition 이용 방법

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

ACM DIGITAL LIBRARY Association for Computing Machinery Premium Edition acm open > 기관/이용자 정보

Journals Magazines Proceedings Books SIGs Co 전체 SIG 보기 Search ACM Digital Library Search within SIGs Advanced Search

Special Interest Groups (SIGs)

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.

View : Grid View List View

모든 SIG 격자 또는 리스트 보기

SIG 내 검색

각 SIG에서 주최하는 Conference Proceeding 목록

EIGREP Emerging Interest Group on Reproducibility and Replicability	SIGACCESS Special Interest Group on Accessible Computing	SIGACT Special Interest Group on Algorithms & Computation Theory	SIGAI Special Interest Group on Artificial Intelligence	SIGAPP Special Interest Group on Applied Computing	SIGARCH Special Interest Group on Computer Architecture
SIGRED	SIGBIO	SIGCAS	SIGCHI	SIGCITE	SIGCOMM

3. ACM Digital Library Premium Edition 이용 방법

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

The screenshot shows the ACM Digital Library Premium Edition interface for the Conferences section. The navigation bar includes 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', 'Institutions', and 'People'. The 'Conferences' menu item is highlighted with a red box and a callout '전체 컨퍼런스 보기'. Below the navigation bar, there are sub-menu items: 'ACM Conferences', 'Conferences when & where', and 'ICPS Proceedings', also highlighted with a red box. A search bar is present with the text 'Search within ACM Conferences' and a callout '컨퍼런스 내 검색'. The main content area features a heading 'ACM Conferences' and a descriptive paragraph. A callout '모든 SIG 격자 또는 리스트 보기' points to the 'View' section, which has 'Grid View' and 'List View' buttons. Below this is a grid of conference tiles, each with a title and acronym. A callout 'Conference 별 정보제공' points to this grid. The tiles include: ACM SE (ACM Southeast Regional Conference), ANCS (Architecture for Networking and Communications Systems), ASE (Automated Software Engineering), ASIA CCS (ACM Symposium on Information, Computer and Communications Security), ASPDAC (Asia and South Pacific Design Automation Conference), ASPLOS (Architectural Support for Programming Languages and Operating Systems), ASSETS, AUS-CE, BCB, BUILDSYS, C&C, and CCS. The top right corner of the page has 'Premium Edition', 'acm open', and '기관/이용자 정보' links.

- **ACM Conferences:** 컨퍼런스 소개/리스트
- **Conference when&where :** 컨퍼런스 타이틀, 나라, 도시, 일자 정보/검색 제공
- **ICPS Proceedings :** International Conference Proceeding Series 제공

3. ACM Digital Library Premium Edition 이용 방법

- ACM Browsing : ACM DL Home 하단 "Categories" > "Collections" - 전체 컬렉션 브라우징

ACM Digital Library Premium Edition Only

Premium Edition

acm open

기관/이용자 정보

Journals Magazines Proceedings Books SIGs Conferences Institutions People

Search ACM Digital Library

Advanced Search

Browse Digital Library Collections

Collections

Home > Collections

■ Collections

- ACM Classic Book Series**
This list of classic books is the result of a poll ACM conducted where members named their favorite computer science books.
[View More](#)
- Hosted Content**
Collection of Journals from affiliated publishers.
[View More](#)
- ACM Oral History interviews**
[View More](#)
- ACM Curricula Recommendations**
In the decades since the 1960s, ACM, along with leading professional and scientific computing societies, has endeavored to tailor...
[View More](#)
- NSF Workshop Reports**
The National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) has a long history of funding community "visioning" workshops that aim to bring ...
[View More](#)
- Dataset Artifacts**
[View More](#)
- Software Artifacts**
[View More](#)
- Case Studies**
Case studies look retrospectively at challenges and problems already addressed, while attempting to draw out some of the lessons ...
[View More](#)
- ACM TechBriefs**
ACM TechBriefs is a series of short technical bulletins, which present a balanced perspective on the impact of specific developments or ...
[View More](#)

Feedback

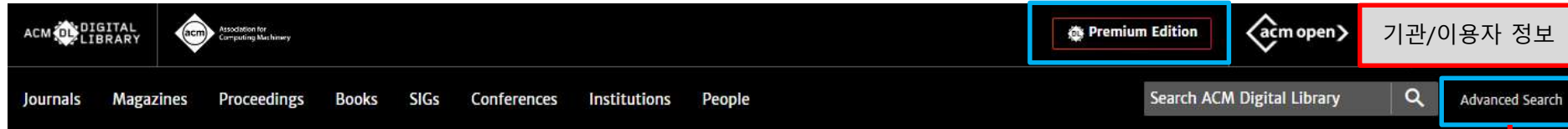
3. ACM Digital Library Premium Edition 이용 방법

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

The screenshot shows the ACM Digital Library Premium Edition interface. At the top, there are navigation links for Journals, Magazines, Proceedings, Books, SIGs, Conferences, Institutions, and People. A search bar is also present. The main navigation bar includes "Browse Digital Library" and "Collections". The "Browse" section is highlighted, showing options to "View" by "Browse by Title" (selected) or "Browse by Publisher". Below this, there are five categories of literature types: Books (181,534 Titles), Periodicals (1,452 Titles), Proceedings (35,888 Titles), Theses (140,476 Titles), and Technical Reports (25,464 Titles). Each category has a "View all" link for publishers. Annotations in Korean explain that users can browse by title or publisher, and that filtering is available by document type (Books, Periodicals, Proceedings, Theses, Technical Reports) and then by alphabetical order, publisher, people, author keywords, primary CCS, or publication data.

3. ACM Digital Library Premium Edition 이용 방법

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



The screenshot displays the 'Advanced Search' page. It features a search form with several sections: 'Search Items from' (set to 'The ACM Full-Text collection'), 'Search Within' (set to 'Anywhere'), 'Filters' (set to 'Published in'), and 'Publication Date' (set to 'All dates'). Callouts in Korean point to various elements: '검색 범위 설정' (Search scope setting) points to the 'Search Items from' dropdown; '검색어 입력' (Search term input) points to the 'Enter Search term' field; '검색 옵션/키워드 추가' (Add search options/keywords) points to the 'Filters' section; '검색 필터 설정' (Search filter setting) points to the 'Publication Date' section; and '출판날짜 설정' (Publication date setting) points to the 'All dates' radio button. A 'Clear' button and a 'Search' button are at the bottom of the form.

3. ACM Digital Library Premium Edition 이용 방법

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

The screenshot shows the ACM Digital Library search results page for the query "multimedia". The page features a navigation bar with "Premium Edition" and "acm open" buttons, and a search bar containing "multimedia". The main content area displays "80,664 Results for: All: multimedia" and a list of search results. A "Publication Date" filter is visible on the left, and a "Save to Binder" dialog box is open on the right. Annotations in Korean provide details about the search interface features.

Annotations:

- 검색 편집, 검색 저장, RSS 피드 Computing Literature 검색 확장 (Search edit, search save, RSS feed, Computing Literature search extension)
- 유형별 검색결과 분류 (Classification by search result type)
- 검색 결과 원문 (Original text of search results)
- 검색결과 정렬 (Search result sorting)
- 검색 필터 기능:
 - Publication Date
 - People
 - Publications
 - Conferences
 - Reproducibility Badges

3. ACM Digital Library Premium Edition 이용 방법

- ACM 원문 열람

The screenshot shows the ACM Digital Library Premium Edition interface for the article "Tackling Climate Change with Machine Learning". The interface includes a top navigation bar with "Premium Edition" and "acm open" logos, and a search bar. The main content area displays the article title, authors, and publication details. A left sidebar contains a table of contents, and a right sidebar provides "Information & Contributors" and "Publication History". A bottom sidebar offers various options like "Information & Contributors", "Bibliometrics & Citations", and "View Options".

원문 정보 (Original Document Information): Points to the article title and authors.

SNS 공유 (SNS Sharing): Points to the social media sharing icons (Twitter, LinkedIn, Facebook, Email).

Authors Info & Claims: Points to the "Authors Info & Claims" link.

Publication History: Points to the "Publication History" link.

Information & Contributors: Points to the "Information & Contributors" sidebar.

Publication History: Points to the "Publication History" section in the sidebar.

Authors Info & Claims : 저자 리스트 및 정보
Publication History : 출판 관련 내역

Information & Contributors
 •Bibliometrics & Citations
 •View Options
 •References
 •Figures
 •Tables
 •Media
 •Share

AI Summary : 검색 지원, 관련 연구 분야 독자의 관련성 판단 및 해당 연구에 대한 이해를 돕기 위해 자동화 도구에 의해 생성된 요약

Table of Contents (Left Sidebar):

- ACM Computing Surveys (CSUR)
- Volume 55, Issue 2
- ← Previous
- Next →
- 7. ... by Sherwin
- 8 Climate Prediction by Kelly Kochanski
- 9 Societal Impacts by Kris Sankaran
- 10 Solar Geoengineering by Andrew S. Ross
- 11 Individual Action by Natasha Jaques
- 12 Collective Decisions by Tegan Maharaj & Nikola Milojevic-Dupont
- 13 Education by Alexandra Luccioni
- 14 Finance by Alexandra Luccioni
- 15 Conclusion
- Acknowledgments
- Footnotes
- Supplementary Material
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<ACM IP Block 관련 주의 사항>

ACM Open 참여 기관의 특정 IP대역에서 사람의 활동으로 간주하기에 과도한 자동 또는 대량의 열람 및 다운로드, 허용되지 않은 프로그램 사용 등을 통한 과도한 세션 클릭/열람/Full Text **다운로드 활동이 감지될 경우** ACM 플랫폼에서 해당 IP대역을 일시적 또는 영구적으로 자동 차단합니다.

자동 차단과 동시에 해당 IP대역에서 원문 열람이 불가하며, IP Block 안내 문구가 나타납니다. 기관 이용자는 IP Block 안내 문구 확인 시 기관 담당자에게 문의하여 주시기 바랍니다.

ACM에서 차단된 IP 대역의 Access 복구를 위하여 IP블락을 야기한 활동에 대한 상세한 조사 내용과 과다 다운로드 예방을 위한 기관 내 사후조치를 명시한 사유서 등을 기관에 요청할 수 있습니다.

ACM 이용자분들께서는 이러한 IP Block을 야기할 수 있는 불법/대량 다운로드 프로그램이나 시스템 이용을 삼가 주시고, 단 시간 내 과다한 세션 클릭/열람/Full Text 다운로드를 자제하여 주시기 바랍니다.

감사합니다.



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