

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 Community를 형성하고 있음

SIG(Special Interest Groups)

- ACM 내 소 주제분야 관련 분과회
- 전세계 170개의 컨퍼런스, 워크샵, 심포지엄을 주관
- 컴퓨터 IT 관련 분야의 38개 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	SIGEnergy	Energy Systems and Informatics

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

ACM Open

컴퓨터 공학 분야의 Journals, Conference proceedings, Technical magazines, newsletters 및 books의 원문(PDF형식) 및 논문의 서지 정보를 ACM Digital Library 플랫폼을 통해 제공

- Coverage: 1951년 ~ 현재
- 제공 종수 : 원문 60만건 이상, 3,500,000여 건의 서지 Records
- 업데이트 수치 : 매년 2만 5천 여건의 records
- Audio, Video, Animation을 포함한 11,000개 이상의 multi-media 파일

*ACM Open Access APC 면제

: ACM Open 참여기관 소속 저자가 ACM에서 출판하는 Journals, Magazine, Transaction, Conference Proceeding에 대한 OA Article 출판 시 등록된 기관 이메일 도메인이 인증될 경우 APC가 자동 면제됨

3. ACM Digital Library 이용 방법

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

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

- Top Right:** "Browse", "About", "Sign in", and "Register" buttons.
- Navigation:** "Journals", "Magazines", "Proceedings", "Books", "SIGs", "Conferences", and "People" menu items.
- Search:** A search bar with "Search" text and a magnifying glass icon. Below it is an "Advanced Search" link.
- Callouts:**
 - "Title, Publisher 및 Collections별 Browsing" points to the top navigation area.
 - "ACM DL 소개" points to the "About" button.
 - "BASIC SEARCH (일반검색)" points to the search bar.
 - "Advanced Search (상세검색)" points to the "Advanced Search" link.
 - "ACM Youtube 채널 이동: 최신 소식 동영상" points to the "Youtube Channel" button.
 - "최신 ACM 및 콘텐츠 별 소식" points to a dropdown arrow.
- Center:** A welcome message: "Welcome to the ACM Digital Library. A community engaged with a repository of resources to support computing research and practice. Please explore and use the [Feedback] button on any page to help us shape the new site."
- Bottom:** A "Recent Award Winners" section with a row of circular profile pictures.

3. ACM Digital Library 이용 방법

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

The screenshot shows the ACM Digital Library 'Journals' page. The navigation menu at the top includes 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. A search bar is located in the top right. The main content area features a 'Search within the ACM Journals' box and a 'Recommend ACM DL' button. Below this is a 'View' section with 'Grid View' and 'List View' options. The bottom of the page displays a grid of journal covers, including ACMJCSS, COLA, CSUR, DGOV, DLT, DTRAP, FAC, GAMES, HEALTH, IMWUT, JACM, JATS, JDIQ, and JEA. Callouts in Korean provide instructions: '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), and '50종 이상의 ACM DL 저널' (50+ ACM DL journals).

3. ACM Digital Library 이용 방법

- ACM Journal Browsing : "ACM Computing Surveys" 접속

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

ACM Computing Surveys

Search within CSUR

저널 내 검색

Home > ACM Journals > ACM Computing Surveys

ACM Computing Surveys

해당 저널 관련 정보:

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

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

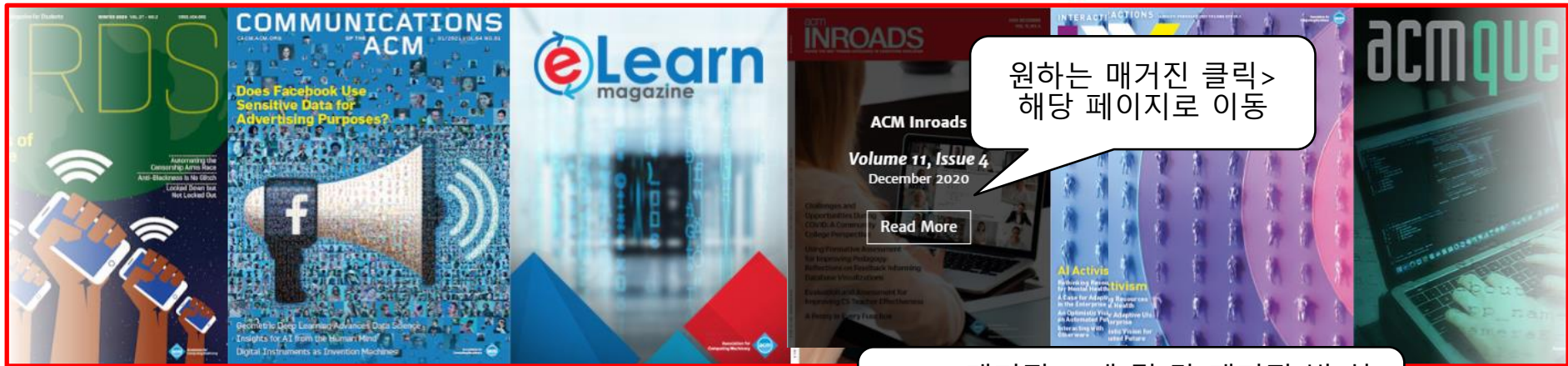
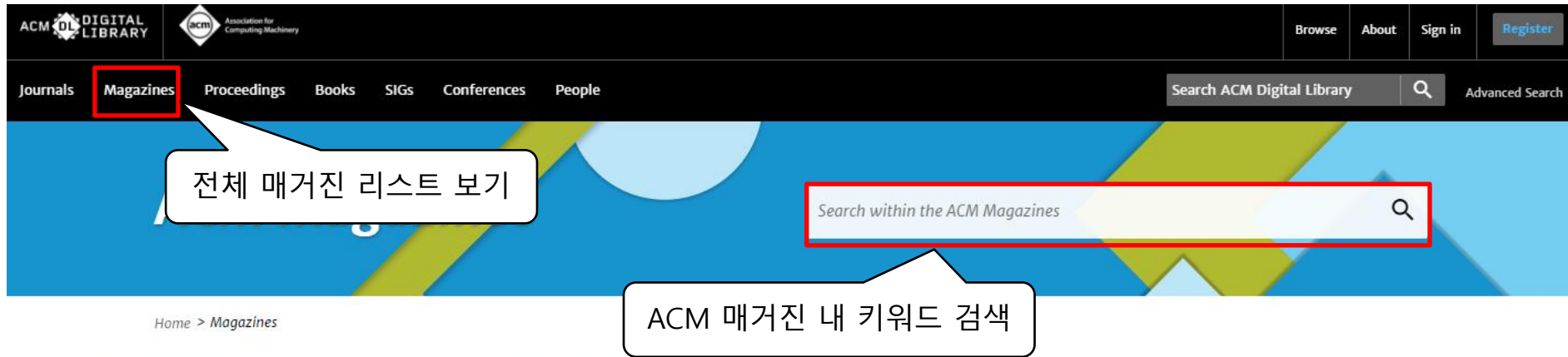
해당 저널 관련 수치 정보 제공

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
1969 - 2021	2,309	203,874	2,282	74,120	570,317	4,835,605	2.119	88

Subject Areas Announcements Most Frequent Affiliations Most Cited Authors

3. ACM Digital Library 이용 방법

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



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

[Recommend ACM DL](#)

3. ACM Digital Library 이용 방법

- ACM Magazines Browsing : "ACM Queue" 접속

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

Magazine Home Sub-menu: Magazine Home, Latest Issue, Archive, Authors, Affiliations, Award Winners

Search: Search within QUEUE

Callout 1 (Left): 해당 매거진 관련 정보
 • Subject Areas
 • Blog
 • Most Frequent Affiliations
 • Most Cited Authors
 • Latest Issue
 • Recent Award Winners
 • Most Popular Downloaded/Cited

Callout 2 (Right):
 • **Magazine Home** : 매거진 주제분야, 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

Callout 3 (Middle): 해당 매거진 관련 수치 정보 제공

Publication Years	Publicat	Citation count	Available for Download	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)	Average Downloads per Article	Average Citation per Article
2003 - 2024	1,3	12,577	1,302	295,999	3,195,545	38,323,179	29,434	9

Footer: Subject Areas, Blogs, Most Frequent Affiliations, Most Cited Authors

3. ACM Digital Library 이용 방법

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

The screenshot shows the ACM Digital Library website with several callouts explaining navigation and search features:

- 전체 프로시딩 리스트 보기**: Points to the 'Proceedings' menu item in the top navigation bar.
- ACM Proceedings**: Points to the 'ACM Proceedings' sub-menu item.
- Conferences when & where**: Points to the 'Conferences when & where' sub-menu item.
- ICPS Proceedings**: Points to the 'ICPS Proceedings' sub-menu item.
- Search with ACM Proceedings**: Points to the search bar on the page.
- 프로시딩 내 검색**: Points to the search bar within the 'ACM Proceedings' section.
- 프로시딩 타이틀 검색**: Points to the search bar for finding proceedings by title.
- 알파벳 순 목록 프로시딩 목록**: Points to the 'Browse Proceedings alphabetically' section.

• 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 Series제공

Browse Proceedings alphabetically

3	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 →
3DOP: 3D Object Retrieval	

3. ACM Digital Library 이용 방법

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

The screenshot shows the ACM Digital Library website interface for Special Interest Groups (SIGs). The top navigation bar includes 'Browse', 'About', 'Sign in', and 'Register'. The main menu has 'Journals', 'Magazines', 'Proceedings', 'Books', and 'SIGs', with 'SIGs' highlighted and a callout '전체 SIG 보기'. A search bar is present with the text 'Search within SIGs' and a callout 'SIG 내 검색'. Below the search bar, there is a 'Home > All Sigs' breadcrumb. The main content area features a 'SIGs' section with a description: 'ACM's Special Interest Groups (SIGs) are a primary source of original research and personal perspectives broad spectrum of computing disciplines. SIGs foster technicalities and aim to advance the skills of their members, keeping opportunities for networking with colleagues. SIGs publish influence through multiple recognition programs, and organize global scale.' A callout '모든 SIG 격자 또는 리스트 보기' points to the 'View' section, which has 'Grid View' selected and 'List View' as an option. Another callout '각 SIG에서 주최하는 Conference Proceeding 목록' points to a 'Recommend ACM DL' button. At the bottom, a grid of SIG cards is shown, each with a title and logo. The cards are: 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), and SIGARCH (Special Interest Group on Computer Architecture). Below these cards are labels for other SIGs: SIGRED, SIGRIO, SIGCAS, SIGCHI, SIGCOMM, and SIGCSE.

3. 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 page features a navigation bar with 'Conferences' highlighted in a red box. A search bar is present with the text 'Search within ACM Conferences' and a magnifying glass icon. Below the search bar, there is a 'Recommend ACM DL' button and an 'ACM CONFERENCES' logo. A 'View' section shows 'Grid View' selected and 'List View' as an option. 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). The entire bottom row is enclosed in a red border.

전체 컨퍼런스 보기

컨퍼런스 내 검색

모든 컨퍼런스 격자 또는 리스트 보기

Conference 별 정보제공

3. ACM Digital Library 이용 방법

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

The screenshot shows the ACM Digital Library 'Browse' page. At the top, there are navigation links for 'Browse', 'About', 'Sign in', and 'Register'. Below this is a search bar and a secondary navigation bar with 'Browse Digital Library' and 'Collections'. The main heading is 'Browse'. Underneath, there's a breadcrumb 'Home > Browse by Title' and a 'Browse' section with 'View: Browse by Title' and 'Browse by Publisher' buttons. A list of literature types is shown: Books (181,775 Titles), Periodicals (1,424 Titles), Theses (136,220 Titles), Technical Reports (25,463 Titles), and RFC (9,179 Titles). Annotations explain that users can browse by title or publisher, and that filters like alphabetical order, publisher, author keywords, etc., are available after selecting a literature type.

Annotations:

- "Browse"페이지 이동
- Title 또는 Publisher별 Browsing 가능
- 문헌 형식별 분류: Books, Periodicals, Proceedings, Theses, Technical Reports, RFC
- 문헌 형식 필터링 후 Alphaberical, Publishers, Peple, Author Keywords, Primary CCS, Publication Data 별 열람 가능

3. ACM Digital Library 이용 방법

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

The screenshot shows the ACM Digital Library website's 'Collections' page. The navigation bar includes 'Browse', 'About', 'Sign in', and 'Register'. The main menu lists 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. A search bar is present with the text 'Search ACM Digital Library' and 'Advanced Search'. The 'Browse Digital Library' section has 'Collections' highlighted. A large blue banner reads 'Collections'. Below this, a breadcrumb trail shows 'Home > Collections'. The main content area is titled 'Collections' and features a grid of collection cards, each with a title, description, and a 'View More' link. The cards include: 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. Annotations with callout boxes point to the 'Browse' button, the 'Collections' link, the 'Browse' button again, and the collection cards.

Annotations:

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

3. 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 boxes and callouts identify key search options:

- 검색 범위 설정** (Search Scope Setting): Points to the 'Search items from:' dropdown menu.
- 검색어 입력** (Search Term Input): Points to the 'Search Within' input field.
- 검색 키워드 추가** (Add Search Keyword): Points to the 'Filters' section.
- 검색 필터 설정** (Search Filter Setting): Points to the 'Publication Date' section.
- 출판날짜 설정** (Publication Date Setting): Points to the 'Publication Date' section.

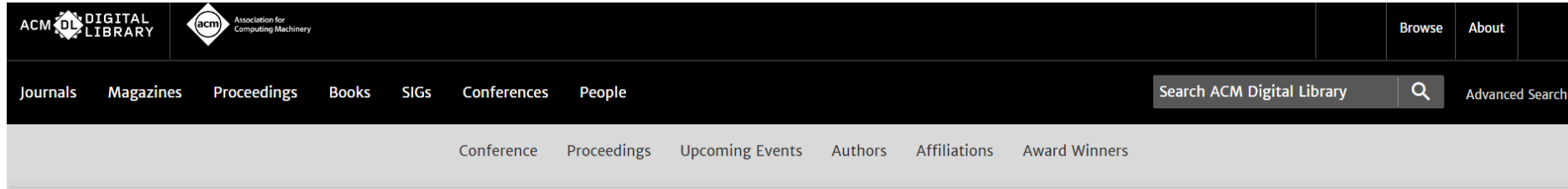
3. ACM Digital Library 이용 방법

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

The screenshot shows the ACM Digital Library search results page for the query "multimedia". The page features a navigation bar with categories like Journals, Magazines, Proceedings, Books, SIGs, Conferences, and People. A search bar at the top right contains the text "multimedia". Below the search bar, the results are displayed in a list format. A callout box labeled "검색창" points to the search bar. Another callout labeled "검색 결과 수, 검색 편집" points to the "65,770 Results for: All: multimedia" section, which includes buttons for "Edit Search", "Save Search", and "RSS". A third callout labeled "Computing Literature 검색 확장" points to the link "Expand your search to The ACM Guide to Computing Literature (3,487,739 records)". Below the results, there are tabs for "RESULTS", "VIDEOS", "PERIODICALS", "SOFTWARE", "DATASET", and "PEOPLE". A callout labeled "유형별 검색결과 분류" points to these tabs. Another callout labeled "검색 결과 원문" points to the "per page: 10 20 50" and "Relevance" dropdown menu. A callout labeled "검색결과 정렬" points to the "Relevance" dropdown. On the left side, there is a filter sidebar with sections for "People" and "Publications". A callout labeled "검색 필터 기능:" points to this sidebar, listing filter options: "-People", "-Publications", "-Conferences", "-Reproducibility Badges", and "-Publication Date". The main content area shows a search result for a tutorial titled "Crowdsourcing & Multimedia: Enhancing Multimedia Activities with the P...". The result includes the author names "Ricardo M.C. Segundo, Marcello N. de Amorim, Celso A.S. Santos", the publication information "Webmedia '16: Proceedings of the 22nd Brazilian Symposium on Multimedia and the Web • November 2016, pp 11-12 • https://doi.org/10.1145/2976796.2988223", and a "Get Access" button. A callout labeled "검색 결과 정렬" also points to the "Get Access" button. At the bottom of the page, there is a "Feedback" button.

3. ACM Digital Library 이용 방법

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



Home > Conferences > MOMM > Proceedings > MoMM '09 > Multimedia learning object to build cognitive understanding in learning introductory programming

RESEARCH-ARTICLE

Multimedia learning object to build cognitive understanding in learning introductory programming

원문의 서지 정보

Authors: [Reginamary Matthews](#), [Hew Soon Hin](#), [Koo Ah Choo](#) [Authors Info & Claims](#)
MoMM '09: Proceedings of the 7th International Conference on Advances in Mobile Computing and Multimedia • December 2009
• Pages 396-400 • <https://doi.org/10.1145/1821748.1821824>

원문의 다운로드 / 인용 수치

9 501

초록 보기

원문 알림/저장/인용 / 열람/다운로드



바로가기
• Abstract
• Refereces
• Index Terms
• Comments

- MoMM '09: Proceedings of the 7t...
Multimedia learning object to build...
Pages 396-400
← Previous Next →
- ABSTRACT
- References
- Cited By

ABSTRACT
Programming is taught as foundation module at the beginning of undergraduate studies and/or during foundation year. Learning introductory programming languages such as Pascal, Basic / C (procedural) and C++ / Java (object oriented) requires learners to understand the underlying programming paradigm, syntax, logic and the structure. Learning to program is considered hard for novice learners and it is important to understand what makes learning program so difficult and how students learn.
The prevailing focus on multimedia learning objects provides promising approach to create better

- 원문 관련 정보
- Information&Authors
 - Bibliometrics and Citations
 - View Options
 - References
 - Media
 - Tables
 - Share

<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.



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