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- ACMが刊行する主要逐次刊行物、ACM会議録およびSIG(Special Interest Group)会報誌、共同出版誌の全文を収録
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 - 過去に発行され、現在廃刊のタイトルも収録
- コンピュータ分野における文献データベース、The ACM Guide to Computing Literatureを収録
 - 1985年以降のデータを収録。
 - 雑誌記事(800タイトル以上)、図書(8万件以上)、会議録(7千件以上)、学位論文(4万8千件以上、テクニカルレポート(2万5千件以上)
- 記事個別に統計データ(ダウンロード数、被引用数)を表示
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 - 分類コードから検索することで、同じテーマの記事を検索できる
- 著者プロフィール(著者情報、論文数やダウンロード数、被引用数などを表示)
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新聞・一般雑誌（学内限定）

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タイトル一覧表示



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ACM Transactions on Accessible Computing (TACCESS) is a quarterly journal covering the area of accessible computing as it impacts the lives of people with disabilities. It covers either:

- applications of computing and information technologies to provide assistive systems to persons with disabilities, or
- investigations of computing technologies and their use by persons with disabilities.



JACM [Journal of the ACM \(JACM\)](#)

The *Journal of the ACM (JACM)* aims to provide coverage of the most significant work going on in computer science, broadly construed. We publish original research papers of lasting value in computer science. To be accepted, a paper must be judged to be truly outstanding in its field and to be of interest to a wide audience. We are particularly interested in work at the boundaries, both the boundaries of sub disciplines of computer science and the boundaries between computer science and other fields.



TALG [ACM Transactions on Algorithms \(TALG\)](#)

The *ACM Transactions on Algorithms (TALG)* publishes original research of the highest quality dealing with algorithms that are inherently discrete and finite, and having mathematical content in a natural way, either in the objective or in the analysis. Most welcome are new algorithms and data structures, new and improved analyses, and complexity results. In addition to original research articles TALG will include special features appearing from time to time such as invited columns and a problems section.



TAP [ACM Transactions on Applied Perception \(TAP\)](#)

ACM Transactions on Applied Perception (TAP) publishes papers of interdisciplinary research that crosses the boundaries between perception and computer science disciplines such as graphics, vision, acoustics and haptics. The scope of this journal includes applications and algorithms in any of these fields that incorporate elements of perception. Topics include, but are not limited to:

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ACM Journals/Transactions



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例: ACM Computing Surveys

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Publication years	1969-2013
Publication count	1,281
Citation Count	35,233
Available for download	1,281
Downloads (6 Weeks)	19,817
Downloads (12 Months)	179,627
Downloads (cumulative)	2,347,764
Average downloads per article	1,832.76
Average citations per article	27.50

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1. [Virtualization: Issues, security threats, and solutions - 2013](#)

[Michael Pearce](#), [Sherali Zeadally](#), [Ray Hunt](#)

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2. [Data clustering: a review - 1999](#)

[A. K. Jain](#), [M. N. Murty](#), [P. J. Flynn](#)

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ACM Computing Surveys (CSUR)

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ACM New York, NY, USA
[table of contents](#) ISSN:0360-0300 EISSN:1557-7341

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Archive
Volume 1 Issue 1 (March 1969)

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ACM Computing Surveys (CSUR)

Volume 48 Issue 4, May 2016

Table of Contents

[previous issue](#) | [next issue](#)

[Shared-Memory Optimizations for Inter-Virtual-Machine Communication](#)
[Yi Ren, Ling Liu, Qi Zhang, Qingbo Wu, Jianbo Guan, Jinzhu Kong, Huadong](#)
Article No.: 49
doi>[10.1145/2847562](#)
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Virtual machines (VMs) and virtualization are one of the core computing technologies today. Inter-VM communication is not only prevalent but also one of the leading costs for data-intensive systems and applications in most data centers and cloud computing ... [expand](#)

[A Survey of Role Mining](#)
[Barsha Mitra, Shamik Sural, Jaideep Vaidya, Vijayalakshmi Atluri](#)
Article No.: 50
doi>[10.1145/2871148](#)
Full text: [PDF](#)

Role-Based Access Control (RBAC) is the most widely used model for advanced access control deployed in diverse enterprises of all sizes. RBAC critically depends on defining roles, which are a functional intermediate between users and permissions. Thus, ... [expand](#)

[A Systematic Review of Shared Sensor Networks](#)
[Claudio M. De Farias, Wei Li, Flávia C. Delicato, Luci Pirmez, Albert Y. Zomaya, Paulo F. Pires, José N. De Souza](#)
Article No.: 51
doi>[10.1145/2851510](#)
Full text: [PDF](#)

While Wireless Sensor Networks (WSNs) have been traditionally tasked with single applications, in recent years we have witnessed the emergence of Shared Sensor Networks (SSNs) as integrated cyber-physical system infrastructures for a multitude of applications ... [expand](#)

Table of Contentsのタブをクリックすると、目次を表示します

Abstractの表示

Shared-Memory Optimizations for Inter-Virtual-Machine Communication

Full Text:  PDF 

Authors: [Yi Ren](#), [Ling Liu](#), [Qi Zhang](#), [Qingbo Wu](#), [Jianbo Guan](#), [Jin Zhu Kong](#), [Huadong Dai](#), [Lisong Shao](#)

[Georgia Institute of Technology](#), [National University of Defense Technology, Hunan, P. R. China](#)

Published in:  Journal
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Virtual machines (VMs) and virtualization are one of the core computing technologies today. Inter-VM communication is not only prevalent but also one of the leading costs for data-intensive systems and applications in most data centers and cloud computing environments. One way to improve inter-VM communication efficiency is to support coresident VM communication using shared-memory-based methods and resort to the traditional TCP/IP for communications between VMs that are located on different physical machines. In recent years, several independent kernel development efforts have been dedicated to improving communication efficiency between coresident VMs using shared-memory channels, and the development efforts differ from one another in terms of where and how the shared-memory channel is established. In this article, we provide a comprehensive overview of the design choices and techniques for performance optimization of coresident inter-VM communication. We examine the key issues for improving inter-VM communication using shared-memory-based mechanisms, such as implementation choices in the software stack, seamless agility for dynamic addition or removal of coresident VMs, and multilevel transparency, as well as advanced requirements in reliability, security, and stability. An in-depth comparison of state-of-the-art research efforts, implementation techniques, evaluation methods, and performance is conducted. We conjecture that this comprehensive survey will not only provide the foundation for developing the next generation of inter-VM communication optimization mechanisms but also offers opportunities to both cloud infrastructure providers and cloud service providers and consumers for improving communication efficiency between coresident VMs in virtualized computing platforms.

著者プロフィール



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[homepage](#)

sumi@acm.org

Affiliation history

- [Advanced Telecommunications Research Institute International \(ATR\)](#)
- [Kyoto University](#)
- [Nagoya University](#)
- [Future University - Hakodate](#)

Bibliometrics: publication history

Publication years	1997-2015
Publication count	52
Citation Count	176
Available for download	20
Downloads (6 Weeks)	55
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Downloads (cumulative)	4,989
Average downloads per article	249.45
Average citations per article	3.38

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1 [Sketching on 3D structured surfaces](#)



[Ayuri Tomohiro](#), [Yasuyuki Sumi](#)

[September 2015](#) UbiComp/ISWC'15 Adjunct: Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2015 ACM International Symposium on Wearable Computers

Publisher: ACM

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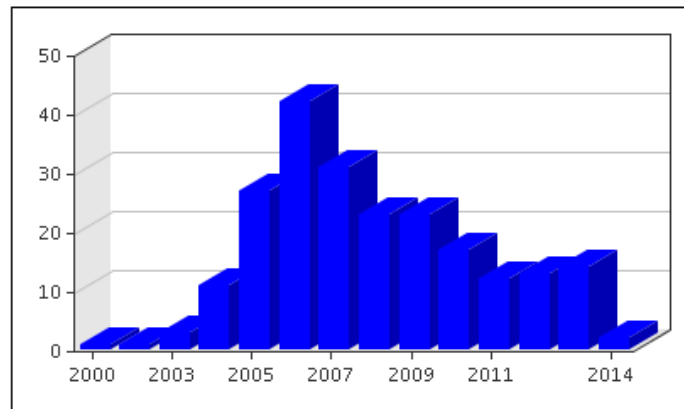
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Publication years	2000-2016
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Custom-Built Moments for Edge Location

Authors: [Irina Popovici](#)
[William Douglas Withers](#)


Published in:
• Journal
IEEE Transactions on Pattern Analysis and Machine Intelligence [archive](#)
Volume 28 Issue 4, April 2006
Page 637-642
IEEE Computer Society, Washington, DC, USA
[table of contents](#) [doi>10.1109/TPAMI.2006.75](#)

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Abstract Authors References Cited B

We present a general construction of functions for the use of moments to locate edges was designed functions supported on circle freedom. We present analyses of the set edge model. The parametric edge description coding.

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• orig-research

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Custom-built moments for edge location

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2 Author(s) [Popovici, I.](#) ; Dept. of Math., US Naval Acad., Annapolis, MD, USA ; [Withers, W.D.](#)

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 - 例: culculat* → calculate、calculator、calculatingなど検索
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1 [Sustaining learning in critical domains of robotic systems](#)

[Hoimonti Pal](#)

March 2002 Journal of Computing Sciences in Colleges: Volume 17

Publisher: Consortium for Computing Sciences in Colleges

Bibliometrics: Citation Count: 0

Downloads (6 Weeks): 27, Downloads (12 Months): 122, Downloads (Overall): 366

Full text available: [PDF](#)

Previous research in the field of Artificial Intelligence has focused on systems that are based on basic ideas of human long-term learning. These systems are not easily applicable to critical situations for robotic systems. In risky situations robotic systems use hierarchical/instinctual memory to address these perilous situations. However, this instinctual ...

Keywords: artificial intelligence

[\[result highlights\]](#)

ダウンロード数、被引用数
などで並べ替えができます

2 [\[self.\]: an Interactive Art Installation that Embodies Artificial Intelligence and Creativity](#)

[Axel Tidemann](#), [Øyvind Brandtsegg](#)

June 2015 C&C '15: Proceedings of the 2015 ACM SIGCHI Conference on Creativity and Cognition

Publisher: ACM

Bibliometrics: Citation Count: 0

Downloads (6 Weeks): 28, Downloads (12 Months): 149, Downloads (Overall): 149

Full text available: [PDF](#)

This paper describes a self-aware interactive art installation that uses artificial intelligence (AI) in order to learn, react, and adapt to its environment. The installation consists of several models implemented to achieve human-like behavior. The models are implemented to achieve human-like behavior and microphones. No form of ...

Keyword

[\[result highlights\]](#)

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[ICMR'16](#)

June 06 - 09, 2016

New York, NY, USA

3 [Planning and learning in security games](#)

[Francesco M. Della Fava](#), [Yundi Qian](#), [Albert X. Jiang](#), [Matthew Brown](#), [Mikael Tamba](#)

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Computational logic

• Natural language processing

• Knowledge representation and reasoning

• Planning and scheduling

• Search methodologies

• Control methods

• Philosophical/theoretical foundations of artificial intelligence

• Distributed artificial intelligence

• Computer vision

Feedback

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分類を選択すると、そのサブカテゴリーを表示します

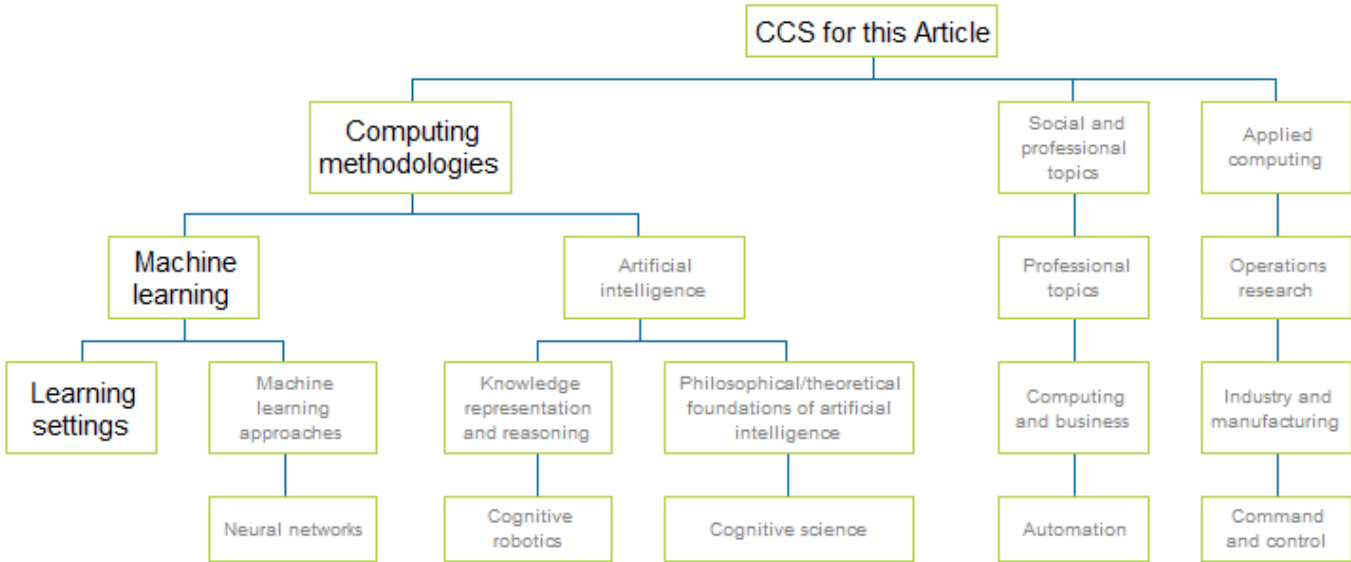
CCS分類コード(記事表示)

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The ACM Computing Classification System ([CCS rev.2012](#))



```
graph TD
    Root[CCS for this Article] --> CM[Computing methodologies]
    Root --> STP[Social and professional topics]
    Root --> AC[Applied computing]
    CM --> ML[Machine learning]
    CM --> AI[Artificial intelligence]
    ML --> LS[Learning settings]
    ML --> MLA[Machine learning approaches]
    MLA --> NN[Neural networks]
    AI --> KRA[Knowledge representation and reasoning]
    KRA --> CR[Cognitive robotics]
    AI --> PTAI[Philosophical/theoretical foundations of artificial intelligence]
    PTAI --> CS[Cognitive science]
    STP --> PT[Professional topics]
    PT --> CB[Computing and business]
    CB --> AUT[Automation]
    AC --> OR[Operations research]
    OR --> IM[Industry and manufacturing]
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within each node indicates a higher relevance of the materials to the taxonomic classification.

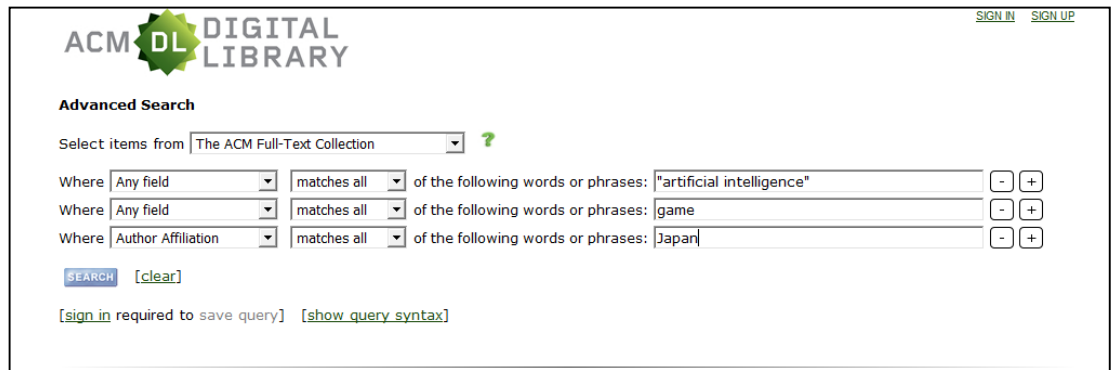
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関連性の高い分類は濃い色で表示されます

実習1

ACMの刊行物で、人工知能とゲームに関する日本の研究機関の記事を検索。ダウンロード数の多い論文を調べる

- キーワードの英語表記は？
- 人工知能 → **Artificial Intelligence**
- ゲーム → **game**



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Advanced Search

Select items from ?

Where	<input type="text" value="Any field"/>	<input type="text" value="matches all"/>	of the following words or phrases:	<input type="text" value="artificial intelligence"/>	<input type="button" value="-"/>	<input type="button" value="+"/>
Where	<input type="text" value="Any field"/>	<input type="text" value="matches all"/>	of the following words or phrases:	<input type="text" value="game"/>	<input type="button" value="-"/>	<input type="button" value="+"/>
Where	<input type="text" value="Author Affiliation"/>	<input type="text" value="matches all"/>	of the following words or phrases:	<input type="text" value="Japan"/>	<input type="button" value="-"/>	<input type="button" value="+"/>

[\[sign in required to save query\]](#) [\[show query syntax\]](#)

検索手順:

1. Advanced Searchを使う

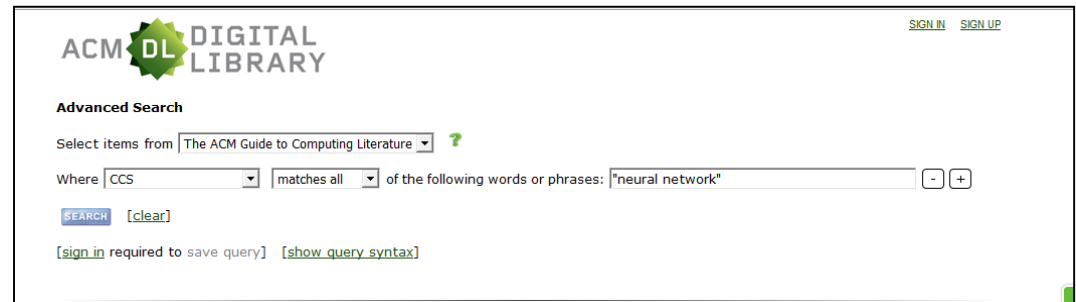
- Select items from: **The ACM Full-Text Collection**
- Any field: **“artificial intelligence”**
- Any field: **game**
- Author Affiliation: **Japan**

2. Sort by: **downloads(overall)**

実習2

ニューラルネットワークについての記事を The ACM Guide to Computing LiteratureからCCSコードで検索、被引用数の多い論文を調査

- キーワードの英語表記は？
 - ニューラルネットワーク → Neural Network



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SIGN IN SIGN UP

Advanced Search

Select items from: The ACM Guide to Computing Literature ?

Where: CCS matches all of the following words or phrases: "neural network" - +

SEARCH [clear]

[sign in required to save query] [show query syntax]

検索手順

1. Advanced Search

1. Select items from: The ACM Guide to Computing Literature
2. CCS: "neural network"

2. Sort by: citation count

実習3

The ACM Guide to Computing Literatureで、著者の所属機関が「[公立はこだて未来大学](#)」の記事を検索。特定の著者の記事を表示

- Advanced Searchで、[Author Affiliation](#)に機関名を入力
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