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**IMWUT** [Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies](#)

*The Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)* is a premier journal series for research relevant to the post-PC era. Computing technology is becoming increasingly pervasive; embedded throughout the environment as well as in mobile devices, wearables, and the Internet of Things. This is leading to a transformative change in the utility that technology can provide to users and societies, and how people relate to technology. IMWUT covers a broad range of topics relevant to this change, such as mobile systems, wearable technologies and intelligent environments. The scope includes research contributions in systems and infrastructures, new hardware and sensing techniques, and studies of user experiences and societal impact. IMWUT also welcomes contributions on new methodologies and tools, theories and models, as well as visionary and survey papers that help advance the field.

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## **SIGAPP** [Special Interest Group on Applied Computing](#)

The ACM Special Interest Group on Applied Computing, ACM's primary applications-oriented SIG, offers practitioners and researchers the opportunity to share mutual interests in innovative applications, technology transfer, experimental computing, strategic research, and the management of computing. This SIG also promotes widespread cooperation among business, government, and academic computing programs. Members receive reduced rates to the SAC Conference.



## **SIGARCH** [Special Interest Group on Computer Architecture](#)

SIGARCH serves a unique community of computer professionals working at the forefront of computer design in both industry and academia. It is ACM's primary forum for interchange of ideas about tomorrow's hardware and its interactions with compilers and operating systems. SIGARCH sponsors or co-sponsors a number of conferences, including the annual international Symposium on Computer Architecture (ISCA). SIGARCH also offers Member Plus proceedings benefits to members when available.



## **SIGBED** [Special Interest Group on Embedded Systems](#)

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**ACM DEV** [Computing for Development](#)

Original and innovative work on the applications, technologies, architectures, and protocols for computing in developing regions.

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ACM Southeast Regional Conference the oldest, continuing, annual conference of the ACM. ACMSE provides an excellent forum for both faculty and students to present their research in a friendly and dynamic atmosphere in all areas of computer science.



**ANCS** [Architecture for Networking and Communications Systems](#)

ANCS is a systems-oriented research conference, presenting original work that explores the relationship between the architecture of modern computer networks and the architecture of the individual hardware and software elements from which these networks are built. This year's conference will particularly emphasize insight into broader systems issues in its paper selection, to recognize and foster the growth of research that lies at the intersection of computer and network systems architecture.

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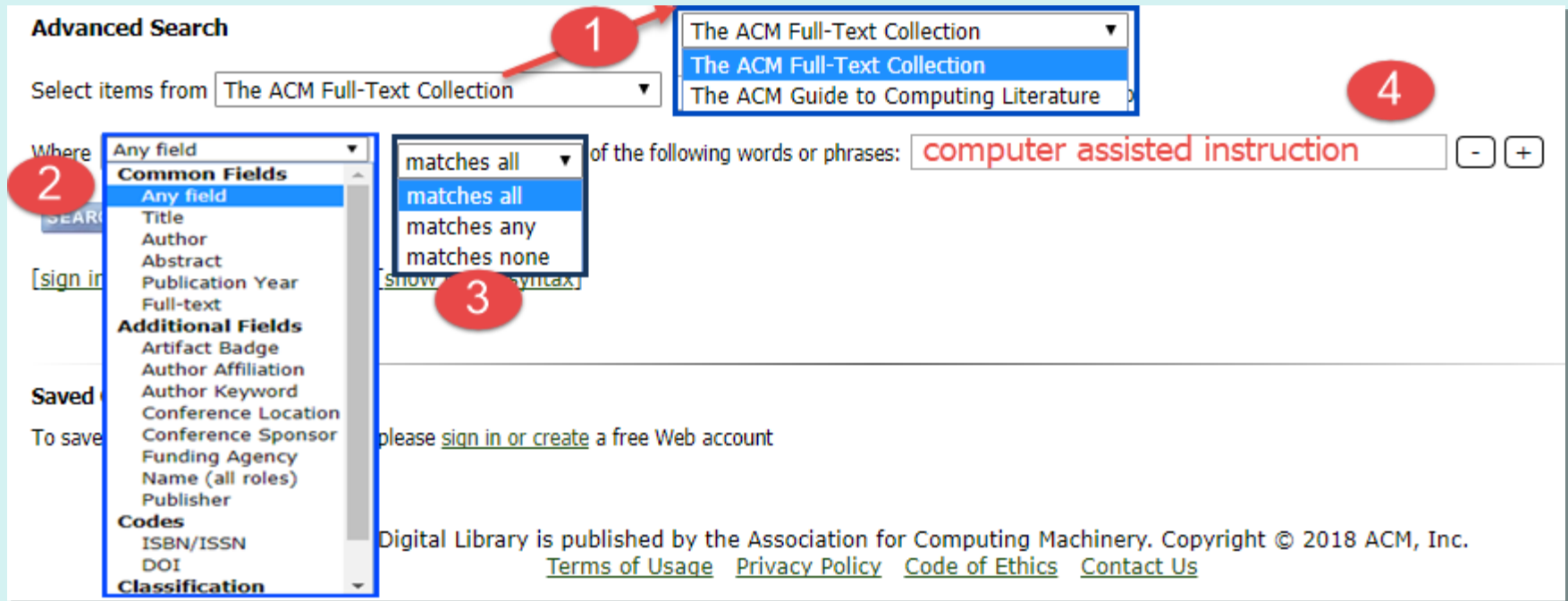
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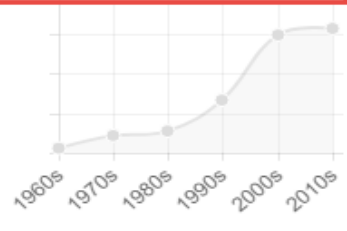
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January 1978 ACM '78: Proceedings of the 1978 annual conference - Volume 2

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


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Zoom In

# Improving Recommendation Lists Through Topic Diversification

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## ABSTRACT

In this work we present topic diversification, a novel method designed to balance and diversify personalized recommendation lists in order to reflect the user's complete spectrum of interests. Though being detrimental to average accuracy, we show that our method improves user satisfaction with recommendation lists, in particular for lists generated using the common item-based collaborative filtering algorithm.

Our work builds upon prior research on recommender systems, looking at properties of recommendation lists as en-

these techniques to offer personalized recommendation lists to their customers.

Though the *accuracy* of state-of-the-art collaborative filtering systems, i.e., the probability that the active user<sup>1</sup> will appreciate the products recommended, is excellent, some implications affecting user satisfaction have been observed in practice. Thus, on Amazon.com (<http://www.amazon.com>), many recommendations seem to be “similar” with respect to content. For instance, customers that have purchased many of Hermann Hesse's prose may happen to obtain recommendation lists where all top-5 entries contain books by

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