The Collected Algorithms of the ACM

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Abstract

The Collected Algorithms of the ACM (CALGO) is now the longest running journal-published series of algorithms. After placing CALGO in the context of other journal algorithm series, we discuss the factors that we believe have made CALGO the well respected means of publishing mathematical software that it is today. We report on how moving with the times and technology has ensured the survival of CALGO, and we look briefly at how we may continue this in the near future.

Keywords: numerical software, software libraries, software quality, mathematical software.

1 Introduction

Collections of scientific routines have existed since the dawn of the digital computing age. Consisting of around 90 routines written in assembler, one of the first software libraries to be documented was developed around 1950 at the University of Cambridge for their EDSAC computer [57]. Authors of routines destined for this library had to demonstrate that their code was capable of solving a wide variety of problems and was efficiently programmed, well tested and properly documented. Even at this early stage the basic ground rules required for the successful take up of library software by end-users were recognized.

During the intervening years such collections have developed in many different directions: commercial general-purpose (NAG [44], IMSL [55]), institutional (CERN [10], Harwell [51]), application specific (*Applied Statistics* [48], *Computer Physics Communications* [17]), problem area specific (Eispack [52, 20], Lapack [2, 6]) and Open Source/Freely available (netlib [15], Gnu [21]). In all cases the driving force has been to provide end-users with reliable, accurate, efficient, general-purpose building blocks with which to construct or guide their own applications.

The Collected Algorithms of the ACM (CALGO) is unusual in that this collection was initiated quite early in the development of computer software and is still growing. While the implementation languages and the means of publishing a specific algorithm have both changed over the years, the basic ideals such as high quality, robustness and good documentation have remained and, indeed, improved with time and experience.

In section 2 we look briefly at the history of CALGO and discuss the collection in the context of a number of similar projects that have been undertaken by other journals. Section 3 looks briefly at how the choice of implementation languages has changed and how different journals influenced this choice. In Section 4, we review how the availability of the published software has changed and how this has affected the continuation of journal publication of software. Section 5 provides a discussion of the ways in which CALGO has influenced how

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to date errata are downloadable at http booksupport wiley com *Collected Algorithms from ACM.* ,1980 *Collected Algorithms from ACM* , **SOFSEM 2005: Theory and Practice of Computer Science** Peter Vojtás,2005-01-27 This book constitutes the refereed proceedings of the 31st Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2005 held in Liptovsk J n Slovakia in January 2005 The 28 revised full papers and 16 revised short papers presented together with 8 invited contributions were carefully reviewed and selected from 144 submissions The papers were organized in four topical tracks on foundations of computer science modeling and searching data in the web area software engineering and graph drawing and discrete computational mathematics *Guide to Information Sources in Mathematics and Statistics* Martha A. Tucker,Nancy D. Anderson,2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free Collected Algorithms from ACM in Five Volumes ,1989 Advances and Applications of DSmT for Information Fusion. Collected Works, Volume 5 Florentin Smarandache,Jean Dezert ,Albena Tchamova, This fth volume on Advances and Applications of DSmT for Information Fusion collects theoretical and applied contributions of researchers working in different elds of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu DSmT book4 pdf or www onera fr sites default les 297 2015 DSmT Book4 pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSmT dealing mainly with modi ed Proportional Con ict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classi ers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSmT have emerged in the past years since the apparition of the fourth book of DSmT in 2015 the second part of this volume is about selected applications of DSmT mainly in building change detection object recognition quality of data association in tracking

perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identi cation of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classi cation Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classi cation and hybrid techniques mixing deep learning with belief functions as well **Collected Algorithms from ACM** Association for Computing Machinery,1978

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