

QUANTITATIVE ANALYSIS OF COMPUTER LITERACY CLASS

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Abstract

Computer skills of incoming university students vary among individuals. In recent years, the difference is much spreading, and it makes hard to manage computer literacy class. Conventionally, when teachers explain or demonstrate about specific applications such as word processing and spread sheets, explanation and practice are carry out at a short interval. However, this format is often tedious for skilful students but rushes non-skilled students. As opposed to this, if teachers have relatively long time for the student's practice in the class, students can learn in accordance with their performance, and also by their paces. In this research, we observe and categorize our computer literacy class with classroom video recordings, and compare the above two lesson format. The long-time format results in worked exercises stretching over a longer period of time than the conventional format. It was more positively received by students, suggesting that incorporating a long time self-study component into course designs may be an effective educational tool to develop computer skills.

Keywords: computer literacy, instructional style, classroom video recording.

1 INTRODUCTION

The Faculty of Physical Education at the National Institute of Fitness and Sports in Kanoya, Japan offers three information technology (IT)-related courses as a liberal education: *Information Processing A*, *Information Processing B*, and *Information Processing C*. Of these, *Information Processing A* is an elective for first-year students in their first academic term and is taken by almost all new students. In the 2010 academic year, 99.5% of new students took the course. *Information Processing A* has been organized in an instruction-example format; it is taught in a classroom equipped with personal computers (PCs), with one student sitting at each PC, and classroom time alternates between lessons delivered by the instructor and practical exercises worked by the students.

However, in recent years, the incoming student population has been observed to exhibit significant disparities in computer skills. On one hand, increasingly widespread use of PCs and the Internet have ensured that a greater number of students who enter the school having already used a PC on a daily basis, and who then continue to improve their skills. On the other hand, students who have not previously had regular access to PCs will have had little opportunity to become familiar with their operation. High school curriculum on IT generally does not suffice to fill this void. Aoki et al. [1] surveyed basic information skills among new students and found that the variation in information skills exceeded the variation in scores on entrance exams. In other words, basic academic ability in IT-related areas was less uniformly distributed among incoming students than ability in other academic areas tested by entrance exams. This finding demonstrates the importance of accommodating students with a wide range of abilities when designing computer literacy courses.

In view of the wide disparities among students, the authors believe that the "full-class instruction, followed by worked practical examples" format, conventionally used in computer literacy classes to teach usage of typical office-related software and similar subjects, is an increasingly ineffective method of classroom instruction. In a typical example of such a format, the instructor delivers a lesson on the operation of the software to the entire class. Students then immediately perform a short exercise, and the process subsequently repeats, starting with another lesson.

In such a format, it is common to find more knowledgeable students completing the short exercises with time to spare, while less knowledgeable students run out of time and are unable to digest the full content. As this phenomenon repeats again and again, both student types lose interest, and concentration in the subject matter diminishes, along with the value of the course.

Based on this experience, *Information Processing A* was partially restructured during the 2010 academic year to incorporate a self-study model, in which each student reads the course materials and completes the exercises at his or her own pace. This self-study model for classroom instruction

Quantitative Analysis Of Computer Systems

Timothy Butler



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Quantitative Analysis of Computer Systems Clement H. C. Leung,1988 Professional design construction and management of computer systems demands thorough performance analysis Every system designer needs to be equipped with the skills to undertake quantitative analysis in order to discover a system s efficiency and to provide information for decisions on system design For students this book presents a body of proven quantitative performance analysis methods with an emphasis on practical applications and usable results [Computer Systems Performance Evaluation and Prediction](#) Paul Fortier,Howard Michel,2003-07-09 Computer Systems Performance Evaluation and Prediction bridges the gap from academic to professional analysis of computer performance This book makes analytic simulation and instrumentation based modeling and performance evaluation of computer systems components understandable to a wide audience of computer systems designers developers administrators managers and users The book assumes familiarity with computer systems architecture computer systems software computer networks and mathematics including calculus and linear algebra Fills the void between engineering practice and the academic domain s treatment of computer systems performance evaluation and assessment Provides a single source where the professional or student can learn how to perform computer systems engineering tradeoff analysis Allows managers to realize cost effective yet optimal computer systems tuned to a specific application **Theory and Engineering of Dependable Computer Systems and Networks** Wojciech Zamojski,Jacek Mazurkiewicz,Jarosław Sugier,Tomasz Walkowiak,Janusz Kacprzyk,2021-05-26 This book contains papers on selected aspects of dependability analysis in computer systems and networks which were chosen for discussion during the 16th DepCoS RELCOMEX conference held in Wrocław Poland from June 28 to July 2 2021 Their collection will be a valuable source material for scientists researchers practitioners and students who are dealing with design analysis and engineering of computer systems and networks and must ensure their dependable operation Being probably the most complex technical systems ever engineered by man and also the most dynamically evolving ones organization of contemporary computer systems cannot be

interpreted only as structures built on the basis of unreliable technical resources Their evaluation must take into account a specific blend of interacting people their needs and behaviours networks together with mobile properties cloud organization Internet of Everything etc and a large number of users dispersed geographically and constantly producing an unconceivable number of applications Ever growing number of research methods being continuously developed for dependability analyses apply the newest techniques of artificial and computational intelligence Selection of papers in these proceedings illustrates diversity of multi disciplinary topics which are considered in present day dependability explorations

Advances in Computer Systems Architecture Thambipillai Srikanthan, Jingling Xue, Chip-Hong Chang, 2005-10-19 On behalf of the Program Committee we are pleased to present the proceedings of the 2005 Asia Pacific Computer Systems Architecture Conference ACSAC 2005 held in the beautiful and dynamic country of Singapore This conference was the tenth in its series one of the leading forums for sharing the emerging research findings in this field In consultation with the ACSAC Steering Committee we selected a member Program Committee This Program Committee represented a broad spectrum of research expertise to ensure a good balance of research areas institutions and experience while maintaining the high quality of this conference series This year's committee was of the same size as last year but had 19 new faces We received a total of 173 submissions which is 14% more than last year Each paper was assigned to at least three and in some cases four Program Committee members for review Wherever necessary the committee members called upon the expertise of their colleagues to ensure the highest possible quality in the reviewing process As a result we received 415 reviews from the Program Committee members and their 105 co reviewers whose names are acknowledged in the proceedings

The conference committee adopted a systematic blind review process to provide a fair assessment of all submissions In the end we accepted 65 papers on a broad range of topics giving an acceptance rate of 37.5% We are grateful to all the Program Committee members and the co reviewers for their efforts in completing the reviews within a tight schedule

Computer Systems for Human Systems Ada Demb, 2014-05-18 Computer Systems for Human Systems focuses on the human dynamics associated with the implementation of centralized computer systems Based on a study conducted in 1974 and 1975 in the United States it describes a coherent framework for the management of information systems development This framework is designed to provide those involved in the development and implementation of computer based information systems decision support systems with an outline of the analytic resources available to them as they set about their complex task Comprised of 11 chapters this book begins with a review of the research and conventional wisdom from the information systems literature and a list of 32 myths or predictions Major concepts from organization development theory and research are then outlined with emphasis on the management of change and internal organizational dynamics These concepts are then applied to the findings from earlier chapters to systematize the predictions and to provide a more general analytic framework for the management of information system development Subsequent chapters present a case study of a 10 campus college system

which decided to centralize all computer facilities in 1972 The study examines progress the impacts of the system on management activity and managerial response to the system The final chapter summarizes the findings from the field study relates them to the concepts and predictions outlined earlier and generates a set of recommendations for management action This monograph will be of interest to systems designers information systems managers and those involved with computer based systems

Computer Systems J. Stanley Warford,2009-02-19

Quantitative Evaluation of Systems Javier Campos,Boudewijn R. Haverkort,2015-08-21 This book constitutes the proceedings of the 12th International Conference on Quantitative Evaluation of Systems QEST 2015 held in Madrid Spain in September 2015 The 19 papers presented were carefully reviewed and selected from 42 submissions They are organized in topical sections named modelling and applications tools petri nets process algebra and fault trees applications and queuing systems and hybrid systems The book also contains one full paper invited talk

Power-Aware Computer Systems Babak Falsafi,T.N. Vijaykumar,2005-12-24

Welcome to the proceedings of the Power Aware Computer Systems PACS 2004 workshop held in conjunction with the 37th Annual International Symposium on Microarchitecture MICRO 37 The continued increase of power and energy dissipation in computer systems has resulted in higher cost lower reliability and reduced battery life in portable systems Consequently power and energy have become first class constraints at all layers of modern computer systems PACS 2004 is the fourth workshop in its series to explore techniques to reduce power and energy at all levels of computer systems and brings together academic and industry researchers The papers in these proceedings span a wide spectrum of areas in power aware systems We have grouped the papers into the following categories 1 microarchitecture and circuit level techniques 2 power aware memory and interconnect systems and 3 frequency and voltage scaling techniques The first paper in the microarchitecture group proposes banking and writeback filtering to reduce register file power The second paper in this group optimizes both delay and power of the issue queue by packing two instructions in each issue queue entry and by memorizing upper order bits of the wake up tag The third paper proposes bit slicing the datapath to exploit narrow width operations and the last paper proposes to migrate application threads from one core to another in a multi core chip to address thermal problems

Computer Systems Warford,2009-02-19 Completely revised and updated Computer Systems Fourth Edition offers a clear detailed step by step introduction to the central concepts in computer organization assembly language and computer architecture Important Notice The digital edition of this book is missing some of the images or content found in the physical edition

Computerworld ,1982-10-18 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network

Design of Dependable Computing Systems J.C. Geffroy,G. Motet,2013-03-09 This book analyzes the causes of failures in computing systems their consequences as well as the existing solutions to manage them The domain is tackled in a

progressive and educational manner with two objectives 1 The mastering of the basics of dependability domain at system level that is to say independently of the technology used hardware or software and of the domain of application 2 The understanding of the fundamental techniques available to prevent to remove to tolerate and to forecast faults in hardware and software technologies The first objective leads to the presentation of the general problem the fault models and degradation mechanisms which are at the origin of the failures and finally the methods and techniques which permit the faults to be prevented removed or tolerated This study concerns logical systems in general independently of the hardware and software technologies put in place This knowledge is indispensable for two reasons A large part of a product's development is independent of the technological means expression of requirements specification and most of the design stage Very often the development team does not possess this basic knowledge hence the dependability requirements are considered uniquely during the technological implementation Such an approach is expensive and inefficient Indeed the removal of a preliminary design fault can be very difficult if possible if this fault is detected during the product's final testing

Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Getting Unstuck Timothy Butler, 2010-01-04 You will experience psychological impasse many times in your life During these times you have the sensation that you're stuck or paralyzed You're convinced that something must change whether in your work or personal life Though this feeling is normal you need to move beyond it Failure to get unstuck can put your career and personal life as well as the healthy functioning of your team or organization at risk In *Getting Unstuck* business psychologist and researcher Timothy Butler offers strategies for moving beyond a career or personal life impasse by recognizing the state of impasse awakening your imagination recognizing patterns of meaning in your life and taking action for change Drawing on a wealth of stories about individuals who have successfully transitioned out of impasses *Getting Unstuck* provides a practical authoritative road map for moving past your immediate impasse and defining a meaningful path forward

Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute National Heart, Lung, and Blood Institute, 1975

Evaluating the Organizational Impact of Health Care Information Systems James G. Anderson, Carolyn Aydin, 2006-04-07 *Evaluating the Organizational Impact of Health Care Information Systems* Second Edition is heavily updated and revised from its First Edition which is entitled *Evaluating Health Care Information Systems Methods and Applications* The much needed Second Edition is a guide for evaluating the organizational impacts of computer systems in health care institutions It provides a practical guide for determining the appropriate questions to ask based on underlying models of change and the most effective methods available An introduction to various methods is provided as well as appendices containing survey instruments usable in research and evaluation computer programs for data analyses and other evaluation resources The book

provides a critical overview of current research and evaluation to date with numerous bibliographic references from health care and other fields The methods and instruments described are applicable to a wide variety of other organizations that utilize information technology and they emphasize the importance of clearly specifying the purpose of the evaluation recognizing assumptions about organizational change and using a multi method approach to system evaluation The material presented is drawn from a variety of social and health science disciplines in order to integrate the study of information system with social science theory and methods Chapter highlights include Cognitive Approaches to Evaluation Computer Simulation as an Evaluation Tool and Research and Evaluation Future Directions Evaluating the Organizational Impact of Health Care Information Systems Second Edition is timely since annual investment in information technology by health care organization in the U S now exceeds 15 billion It will prove valuable to physicians nurses other health care providers health care administrators information systems personnel and consultants who are involved in planning developing implementing utilizing and evaluating computer based health care systems

Biomedical Index to PHS-supported Research ,1988
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