

# History of Nordic Computing

Janis Bubenko, fr. John Impagliazzo Arne Soleberg





## **History Of Nordic Computing History Of Nordic Computing**

**Herbert Bruderer** 

#### **History Of Nordic Computing History Of Nordic Computing:**

**History of Nordic Computing** Janis Bubenko, John Impagliazzo, Arne Soelvberg, 2005-12-28 Computing in the Nordic countries started in late 1940s mainly as an engineering activity to build computing devices to perform mathematical calculations and assist mathematicians and engineers in scientific problem solving The early computers of the Nordic countries emerged during the 1950s and had names like BARK BESK DASK SMIL SARA ESKO and NUSSE Each of them became a nucleus in institutes and centres for mathematical computations programmed and used by highly qualified professionals However one should not forget the punched card machine technology at this time that had existed for several decades In addition we have a Nordic name namely Frederik Rosing Bull contributing to the fundaments of punched card technology and forming the French company Bull Commercial products such as FACIT EDB and SAAB D20 series computers in Sweden the Danish GIER computer the Nokia MIKKO computer in Finland as well as the computers of Norsk Data in Norway followed the early computers In many cases however companies and institutions did not further develop or exploit Nordic computing hardware even though it exhibited technical advantages Consequently in the 1970s US computers primarily from IBM flooded the Nordic market History of Nordic Computing 4 Christian Gram, Per Rasmussen, Søren Duus Østergaard, 2015-05-05 This book constitutes the refereed post proceedings of the 4th IFIP WG 9 7 Conference on the History of Nordic Computing HiNC 4 held in Copenhagen Denmark in August 2014 The 37 revised full papers were carefully reviewed and selected for inclusion in this volume The papers focus on innovative ICT milestones that transformed the nordic societies and on the new ideas systems and solutions that helped creating the welfare societies of today in particular solutions and systems for public services e g tax social benefits health care and education solutions and systems for the infrastructure of the society e q banking insurance telephones transport and energy supply and technologies and IT policies behind the major IT milestones e g user centric innovation programming techniques and IT ethics They are organized in topical sections on IT policy infrastructure public services private services telesystems health care IT in banking transport History of Nordic Computing Janis Bubenko, John Impagliazzo, Arne Soelvberg, 2005-01-14 Computing and IT technology in the Nordic countries started in late 1940s mainly as an engineering activity to build computing devices to perform mathematical calculations and assist mathematicians and engineers in scientific problem solving The early computers of the Nordic countries emerged during the 1950s and had names like BARK BESK DASK SMIL SARA ESKO and NUSSE Each of them became a nucleus in institutes and centres for mathematical computations programmed and used by highly qualified professionals However one should not forget the punched card machine technology at this time that had existed for several decades In addition we have a Nordic name namely Frederik Rosing Bull contributing to the fundaments of punched card technology and forming the French company Bull Commercial products such as FACIT EDB and SAAB D20 series computers in Sweden the Danish GIER computer the Nokia MIKKO computer in Finland as well as the computers of Norsk Data in

Norway followed the early computers In many cases however companies and institutions did not further develop or exploit Nordic computing hardware even though it exhibited technical advantages Consequently in the 1970s US computers primarily from IBM flooded the Nordic market History of Nordic Computing 3 John Impagliazzo, Computing 2 John Impagliazzo, Timo Järvi, Petri Paju, 2009-09-21 The First Conference on the History of Nordic Computing HiNC1 was organized in Trondheim in June 2003 The HiNC1 event focused on the early years of computing that is the years from the 1940s through the 1960s although it formally extended to year 1985 In the preface of the proceedings of HiNC1 Janis Bubenko Jr John Impagliazzo and Arne S lyberg describe well the peculiarities of early Nordic c puting 1 While developing hardware was a necessity for the first professionals quite soon the computer became an industrial product Computer scientists among others grew increasingly interested in programming and application software P gress in these areas from the 1960s to the 1980s was experienced as astonishing The developments during these decades were taken as the focus of HiNC2 During those decades computers arrived to every branch of large and medium sized businesses and the users of the computer systems were no longer only computer s cialists but also people with other main duties Compared to the early years of comp ing before 1960 where the number of computer projects and applications was small capturing a holistic view of the history between the 1960s and the 1980s is conside bly more difficult The HiNC2 conference attempted to help in this endeavor **History of Technology Volume 28** Ian Inkster, 2009-03-31 Technical standards have received increasing attention in recent years from historians of science and technology management theorists and economists Often inquiry focuses on the emergence of stability technical closure and culturally uniform modernity Yet current literature also emphasizes the durability of localism heterogeneity and user choice This collection investigates the apparent tension between these trends using case studies from across the nineteenth and twentieth centuries The History of Technology addresses tensions between material standards and process standards explores the distinction between specifying standards and achieving convergence towards them and examines some of the discontents generated by the reach of standards into everyday life Includes the Special Issue By whose standards Standardization stability and uniformity in the history of information and electrical technologies Milestones in Analog and Digital Computing Herbert Bruderer, 2021-01-04 This Third Edition is the first English language edition of the award winning Meilensteine der Rechentechnik illustrated in full color throughout in two volumes The Third Edition is devoted to both analog and digital computing devices as well as the world's most magnificient historical automatons and select scientific instruments employed in astronomy surveying time measurement etc It also features detailed instructions for analog and digital mechanical calculating machines and instruments and is the only such historical book with comprehensive technical glossaries of terms not found in print or in online dictionaries The book also includes a very extensive bibliography based on the literature of numerous countries around the world Meticulously researched the author conducted a worldwide survey of science technology and art museums

with their main holdings of analog and digital calculating and computing machines and devices historical automatons and selected scientific instruments in order to describe a broad range of masterful technical achievements Also covering the history of mathematics and computer science this work documents the cultural heritage of technology as well Nordic Computing 3 John Impagliazzo, Per Lundin, Benkt Wangler, 2011-09-29 This book constitutes the refereed post proceedings of the Third IFIP WG 9 7 Conference on the History of Nordic Computing HiNC3 held in Stockholm Sweden in October 2010 The 50 revised full papers presented together with a keynote address and a panel discussion were carefully reviewed and selected from numerous submissions The papers focus on the application and use of ICT and ways in which technical progress affected the conditions of the development and use of ICT systems in the Nordic countries covering a period from around 1970 until the beginning of the 1990s They are organized in the following topical sections computerizing public sector industries computerizing management and financial industries computerizing art media and schools users and systems development the making of a Nordic computing industry Nordic networking Nordic software development Nordic research in software and systems development teaching at Nordic universities and new historiographical approaches and How Computers Entered the Classroom, 1960-2000 Carmen Flury, Michael methodological reflections Geiss, 2023-06-19 In the history of education the question of how computers were introduced into European classrooms has so far been largely neglected This edited volume strives to address this gap The contributions shed light on the computerization of education from a historical perspective by attending closely to the different actors involved such as politicians computer manufacturers teachers and students political rationales and ideologies as well as financial political or organizational structures and relations The case studies highlight differences in political and economic power as well as in ideological reasoning and the priorities set by different stakeholders in the process of introducing computers into education However the contributions also demonstrate that simple cold war narratives fail to capture the complex dynamics and entanglements in the history of computers as an educational technology and a subject taught in schools The edited volume thus provides a comprehensive historical understanding of the role of education in an emerging digital society Nordic Computing 4 Christian Gram, Per Rasmussen, Søren Duus Østergaard, 2015 This book constitutes the refereed post proceedings of the 4th IFIP WG 9 7 Conference on the History of Nordic Computing HiNC 4 held in Copenhagen Denmark in August 2014 The 37 revised full papers were carefully reviewed and selected for inclusion in this volume The papers focus on innovative ICT milestones that transformed the nordic societies and on the new ideas systems and solutions that helped creating the welfare societies of today in particular solutions and systems for public services e g tax social benefits health care and education solutions and systems for the infrastructure of the society e g banking insurance telephones transport and energy supply and technologies and IT policies behind the major IT milestones e q user centric innovation programming techniques and IT ethics They are organized in topical sections on IT policy infrastructure public services private services

telesystems health care IT in banking transport and IT technology Computers in Swedish Society Per Lundin, 2012-05-02 This book reviews the shift in the historiography of computing from inventors and innovations to a user perspective and examines how the relevant sources can be created collected preserved and disseminated. The text describes and evaluates a project in Sweden that documented the stories of around 700 people The book also provides a critical discussion on the interpretation of oral evidence presenting three case studies on how this evidence can inform us about the interaction of computing with large scale transformations in economies cultures and societies Features describes a historiography aimed at addressing the question of how computing shaped and transformed Swedish society between 1950 and 1980 presents a user centered perspective on the history of computing after explaining the benefits of such an approach examines the documentation of users describing novel and innovative documentation methods discusses the pros and cons of collaborative projects between academia and industry Navigating Landscapes of Mediated Memory ,2020-04-14 This volume was first published by Inter Disciplinary Press in 2011 Bankminded Orsi Husz, 2025-06-25 This open access book explores the history of how banks and banking services have become part of everyday life Taking welfare state Sweden as its setting the book identifies key cultural challenges and shows how banks and finance companies made inroads into the workplace the family spaces of consumption and the world of social movements while also taking on tasks typically associated with state authorities Focusing on this bankification of everyday life reveals the historical links between the post war welfare state and the financialised everyday culture of the late twentieth century This book will be of interest to scholars of economic and cultural history and sociology as well as those interested in the history of welfare states and the development of commercial surveillance Hacking Europe Gerard Alberts, Ruth Oldenziel, 2014-09-03 Hacking Europe traces the user practices of chopping games in Warsaw hacking software in Athens creating chaos in Hamburg producing demos in Turku and partying with computing in Zagreb and Amsterdam Focusing on several European countries at the end of the Cold War the book shows the digital development was not an exclusively American affair Local hacker communities appropriated the computer and forged new cultures around it like the hackers in Yugoslavia Poland and Finland who showed off their tricks and creating distinct demoscenes Together the essays reflect a diverse palette of cultural practices by which European users domesticated computer technologies Each chapter explores the mediating actors instrumental in introducing and spreading the cultures of computing around Europe More generally the ludological element the role of mischief humor and play discussed here as crucial for analysis of hacker culture opens new vistas for the study of the history of technology *Intelligent Technologies* for Interactive Entertainment Zhihan Lv, Houbing Song, 2022-03-24 This book constitutes the refereed proceedings of the 13th International Conference on Intelligent Technologies for Interactive Entertainment INTETAIN 2021 Due to the COVID 19 global pandemic the conference was held virtually This year s conference put an emphasis on the future of technologies for interactive entertainment The 25 full papers presented at the conference and thus included in this book were selected

from 50 submissions and present novel and innovative work in areas including art science design and engineering regarding computer based systems or devices that provide intelligent human interaction learning or entertainment experiences The papers are grouped in 2 sessions of thematic issues on emerging applications and augmented reality Historiography of Economics Till Düppe, E. Roy Weintraub, 2018-10-03 In recent years the focus of historians of economic thought has changed to also include the ideas and practices of contemporary economists. This has opened up new questions regarding the utilization of sources choice of method narrative styles and ethical issues as well as a new awareness of the historian's place role and task This book brings together leading contributors to provide for the first time a methodological overview of the historiography of economics Emphasising the quality of the scholarship of recent decades the book seeks to provide research tools for future historians of economic thought as well as to any historians of social science with an interest in historiographic issues Cash and Dash Bernardo Bátiz-Lazo, 2018-06-18 Cash and Dash How ATMs and Computers Changed Banking uses the invention and development of the automated teller machine ATM to explain the birth and evolution of digital banking from the 1960s to present day It tackles head on the drivers of long term innovation in retail banking with emphasis on the payment system Using a novel approach to better understanding the industrial organization of financial markets Cash and Dash contributes to a broader discussion around innovation and labour saving devices It explores attitudes to the patent system formation of standards organizational politics the interaction between regulation and strategy trust and domestication maintenance versus disruption and the huge undertakings needed to develop online real time The ^ADigital Flood Dr. James W. Cortada, 2013-02-01 In this book historian James W Cortada banking to customers provides the first world wise history of how computers appeared and spread to over twenty nations in less than six decades It explores economic political social and technological reasons and consequences It is based on extensive research into primary and secondary sources and concludes with a discussion of implications for key players in the globalized economy

Decision Taking, Confidence and Risk Management in Banks from Early Modernity to the 20th Century

Korinna Schönhärl,2017-01-26 This book offers 14 contributions that examine key questions in bank decision taking
constitution of confidence in banks and risk management practices from Early Modernity to the twentieth century It explores
how the various mechanisms of bank decision taking changed over time Chapters also analyse the types of risk management
techniques used the contributory factors to the constitution of confidence and the methods that banking historians can use to
analyse and describe bankers risk management and decision taking from system theory to behavioural finance new
institutional economics to praxeology and convention theory to network analysis The different methodological approaches are
put to the test in case studies based on archive material from four hundred years of banking in order to connect banking
history more closely to political and cultural history

Networking the Learner Deryn M. Watson, Jane Andersen, 2013-11-11

Deryn Watson and Jane Andersen Editors INTRODUCTION The role of a Preface is to introduce the nature of the publication

The book that emerges from an IFIP Technical Committee World Conference on Computers in Education is complex and this complexity lies in the nature of the event from which it emerges Unlike a number of other major international conferences those organised within the IFIP education community are active events A WCCE is unique among major international conferences for the structure that deliberately ensures that all attendees are active participants in the development of the debate In addition to the major paper presentations and discussion from international authors there are panel sessions and professional working groups who debate particular themes throughout the event There is no doubt that this was not a dry academic conference teachers lecturers and experts policy makers and researchers leamers and manufacturers mingled and worked together to explore reflect discuss and plan for the future The added value of this event was that we know that it will have an impact on future practice networks will be formed both virtual and real ideas will change and new ones will emerge Capturing the essence of this event is a challenge this post conference book has three parts The first is the substantial number of theme papers

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