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Our suite of blended print and digital resources are tailored to the OCR GCSE Computer Science specification for first teaching from 2020. Our resources focus on developing students' computational thinking, programming, problem-solving and key mathematical skills throughout; enabling them to master underlying computing principles and concepts. Containing contextual activities, less confident students will be supported and the open-ended challenges will stretch learners.

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Cambridge International AS & A Level Computer Science (Cambridge University Press) Detailed descriptions of concepts, reinforced with examples that outline complex subject matter in a clear way. Alongside fundamental definitions, higher-level programming skills are developed through the explanation of processes and consolidated by practical exam-style questions.

Cambridge International AS and A Level Computer Science (9618)

Cambridge publishes in a number of areas of Computer Science, including artificial intelligence, programming languages, robotics, and the application of mathematics to computer science. ... Higher Education from Cambridge University Press is our new online textbook website. The beta version of the site has launched on 30th June, 2020.

Computer Science | Cambridge Core

How to think like a mathematician, Kevin Houston, Cambridge University Press, 2009,ISBN 978-0-521-71978-0. Don't be misled by the title; this book is absolutely relevant for computer scientists. It includes many worked examples and also illustrates common mistakes. It is worth keeping up with advances in science more generally.

Preparing to study Computer Science - University of Cambridge

SRI and Cambridge release CHERI software stack for Arm Morello 29 October 2020 The CHERI architecture co-developed by researchers here to protect computer systems from security vulnerabilities takes a major step forward with the release of software and the first simulator for it.

University of Cambridge - Department of Computer Science ...

Computer Science at Cambridge. Cambridge was a pioneer of computer science and continues to lead its development. There are more than 1,000 specialist computing and advanced technology companies and commercial laboratories in the area (known as 'Silicon Fen'). A number of local firms and start-ups support our teaching and employ our graduates.

Computer Science | Undergraduate Study

Material for each academic year is stored separately. 2020-2021 2019-2020 (the current academic year) 2018-2019 2017-2018 2016-2017 2015-2016 2014-2015 2013-2014 2012-2013 2011-2012 2010-2011 2009-2010 2008-2009 2007-2008 2006-2007 2005-2006 2004-2005 2003-2004 2002-2003 2001-2002 2000-2001 1999-2000 1998-1999

Lecture course material | Department of Computer Science ...

In Cambridge, Computer Science covers the principles of programming, operating systems, computer networks, artificial intelligence and numerous other topics. The study of Computer Science is also concerned with understanding the theoretical basis of the subject. In consequence, the course is designed to provide not only advanced practical experience but also to give an understanding of fundamental principles which will outlast today's technology.

Computer Science | Magdalene College

Computer Science at Churchill. Churchill is the biggest college for Computer Science in Cambridge, in terms of numbers of current undergraduates. We aim to offer 20 to 30 places each year to students who will thrive on a combination of teaching in the Computer Laboratory and within the College.

Computer Science - Churchill College, Cambridge

The Department of Computer Science and Technology has over 250 research workers: academic staff, research associates, and PhD students. Research is carried out across a broad range of subjects within Computer Science.

Research | Department of Computer Science and Technology

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As a Computer Science student at Cambridge, you are taught by the pioneers and leading researchers in the field. But that's not all: in 2001 the Computer Laboratory moved to a new, purpose-built building on the West Cambridge site that offers a fantastic environment for both study and relaxation.

Undergraduate admissions | Department of Computer Science ...

the study of computers, how they work, and how to make use of them: She has a degree in computer science. The conference will bring together experts in computer science, nanotechnology and related fields. (Definition of computer science from the Cambridge Business English Dictionary © Cambridge University Press)

COMPUTER SCIENCE | meaning in the Cambridge English Dictionary

About the Department of Computer Science and Technology. The Department of Computer Science and Technology (known as the Computer Laboratory) is an academic department within the University of Cambridge that encompasses Computer Science, along with many aspects of Technology, Engineering and Mathematics. The Department undertakes research in a broad range of subjects.

Provides an introduction to category theory whilst retaining a level of mathematical correctness, thus appealing to students of both computer science and mathematics.

This resource is written to follow the updated IGCSE® Computer Science syllabus 0478 with examination from June and November 2016. Cambridge IGCSE® and O Level Computer Science Programming Book for Python accompanies the Cambridge IGCSE and O Level Computer Science coursebook, and is suitable for students and teachers wishing to use Python in their studies. It introduces and develops practical skills to guide students in developing coding solutions to the tasks presented in the book. Starting from simple skills and progressing to more complex challenges, this book shows how to approach a coding problem using Structure Diagrams and Flow Charts, explains programming logic using pseudocode, develops Python programming skills and gives full solutions to the tasks set.

In the 1990's it was realized that quantum physics has some spectacular applications in computer science. This book is a concise introduction to quantum computation, developing the basic elements of this new branch of computational theory without assuming any background in physics. It begins with an introduction to the quantum theory from a computer-science perspective. It illustrates the quantum-computational approach with several elementary examples of quantum speed-up, before moving to the major applications: Shor's factoring algorithm, Grover's search algorithm, and quantum error correction. The book is intended primarily for computer scientists who know nothing about quantum theory, but will also be of interest to physicists who want to learn the theory of quantum computation, and philosophers of science interested in quantum foundational issues. It evolved during six years of teaching the subject to undergraduates and graduate students in computer science, mathematics, engineering, and physics, at Cornell University.

This Handbook describes the extent and shape of computing education research today. Over fifty leading researchers from academia and industry (including Google and Microsoft) have contributed chapters that together define and expand the evidence base. The foundational chapters set the field in context, articulate expertise from key disciplines, and form a practical guide for new researchers. They address what can be learned empirically, methodologically and theoretically from each area. The topic chapters explore issues that are of current interest, why they matter, and what is already known. They include discussion of motivational context, implications for practice, and open questions which might suggest future research. The authors provide an authoritative introduction to the field and is essential reading for policy makers, as well as both new and established researchers.

This new resource is written to follow the updated IGCSE Computer Science syllabus 0478 with examination in June and November 2016.

Written for the OCR GCSE Computer Science updated specification (J277) for first teaching from 2020. This print student book has been updated and reordered and uses an exciting and engaging approach to help students build their knowledge and master underlying computing principles and concepts. Designed to develop computational thinking, programming and problem-solving skills, this resource includes challenges and real-life examples that demonstrate how computer science relates to everyday life with practice questions. Our new reflection feature will help students to reflect on their progress and see where they could improve. Answers can be found in the teacher's resource.

A practical introduction to network science for students across business, cognitive science, neuroscience, sociology, biology, engineering and other disciplines.

A new series of bespoke, full-coverage resources developed for the 2016 GCSE Computer Science qualifications. Written for the OCR GCSE Computer Science specification for first teaching from 2016, this print Student Book uses an exciting and engaging approach to help students build their knowledge and master underlying computing principles and concepts. Designed to develop computational thinking, programming and problem-solving skills, this resource includes challenges that build on learning objectives, and real-life examples that demonstrate how computer science relates to everyday life. Remember features act as revision references for students and key mathematical skills relevant to computer science are highlighted throughout. A digital Cambridge Elevate-enhanced Edition and a free digital Teacher's Resource are also available.

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