

# Computer Science Gender Ratio

**computer science gender ratio:** *Cracking the code* UNESCO, 2017-09-04 This report aims to 'crack the code' by deciphering the factors that hinder and facilitate girls' and women's participation, achievement and continuation in science, technology, engineering and mathematics (STEM) education and, in particular, what the education sector can do to promote girls' and women's interest in and engagement with STEM education and ultimately STEM careers.

**computer science gender ratio:** *The Kaleidoscope of Gender* Catherine G. Valentine, Mary Nell Trautner, Joan Z. Spade, 2019-03-07 The authors are proud sponsors of the 2020 SAGE Keith Roberts Teaching Innovations Award—enabling graduate students and early career faculty to attend the annual ASA pre-conference teaching and learning workshop. *The Kaleidoscope of Gender: Prisms, Patterns, and Possibilities* provides an accessible, timely, and stimulating overview of the cutting-edge literature and theoretical frameworks in sociology and related fields in order to understand the social construction of gender. The kaleidoscope metaphor and its three themes—prisms, patterns, and possibilities—unify topic areas throughout the book. By focusing on the prisms through which gender is shaped, the patterns which gender takes, and the possibilities for social change, the reader gains a deeper understanding of ourselves and our relationships with others, both locally and globally. Editors Catherine Valentine, Mary Nell Trautner, and the work of Joan Spade, focus on the paradigms and approaches to gender studies that are constantly changing and evolving. The Sixth Edition includes incorporation of increased emphasis on global perspectives, updated contemporary social movements, such as #BlackLivesMatter and #MeToo, and an updated focus on gendered violence. Free online resources are available at The SAGE Gender and Sexuality Resource Center. This site is intended to provide you with an array of multimedia resources to enhance your studies of gender and sexuality.

**computer science gender ratio:** *2019 IEEE International Conference on Engineering, Technology and Education (TALE)* IEEE Staff, 2019-12-10 electrical and electronic engineering, telecommunications, computer engineering, computer science and allied disciplines as well as those interested in the innovative use of digital technologies for learning, teaching and assessment in any discipline

**computer science gender ratio:** *Gender Issues in Learning and Working with Information Technology: Social Constructs and Cultural Contexts* Booth, Shirley, Goodman, Sara, Kirkup, Gill, 2010-05-31 This book deals with different features of the burgeoning knowledge society: gender, equity, learning, and information technology with the focus on gender - not in the taken-for-granted biological sense of sex but in the socially constituted sense of it--Provided by publisher.

**computer science gender ratio:** *Unlocking the Clubhouse* Jane Margolis, Allan Fisher, 2003-02-28 Understanding and overcoming the gender gap in computer science education. The information technology revolution is transforming almost every aspect of society, but girls and women are largely out of the loop. Although women surf the Web in equal numbers to men and make a majority of online purchases, few are involved in the design and creation of new technology. It is mostly men whose perspectives and priorities inform the development of computing innovations and who reap the lion's share of the financial rewards. As only a small fraction of high school and college computer science students are female, the field is likely to remain a male clubhouse, absent major changes. In *Unlocking the Clubhouse*, social scientist Jane Margolis and computer scientist and educator Allan Fisher examine the many influences contributing to the gender gap in computing. The book is based on interviews with more than 100 computer science students of both sexes from Carnegie Mellon University, a major center of computer science research, over a period of four years, as well as classroom observations and conversations with hundreds of college and high school

faculty. The interviews capture the dynamic details of the female computing experience, from the family computer kept in a brother's bedroom to women's feelings of alienation in college computing classes. The authors investigate the familial, educational, and institutional origins of the computing gender gap. They also describe educational reforms that have made a dramatic difference at Carnegie Mellon—where the percentage of women entering the School of Computer Science rose from 7% in 1995 to 42% in 2000—and at high schools around the country.

**computer science gender ratio: *Cryptography and Computational Number Theory*** Kwok Y. Lam, Igor Shparlinski, Huaxiong Wang, Chaoping Xing, 2013-03-07 This volume contains the refereed proceedings of the Workshop on Cryptography and Computational Number Theory, CCNT'99, which has been held in Singapore during the week of November 22-26, 1999. The workshop was organized by the Centre for Systems Security of the National University of Singapore. We gratefully acknowledge the financial support from the Singapore National Science and Technology Board under the grant number RP960668/M. The idea for this workshop grew out of the recognition of the recent, rapid development in various areas of cryptography and computational number theory. The event followed the concept of the research programs at such well-known research institutions as the Newton Institute (UK), Oberwolfach and Dagstuhl (Germany), and Luminy (France). Accordingly, there were only invited lectures at the workshop with plenty of time for informal discussions. It was hoped and successfully achieved that the meeting would encourage and stimulate further research in information and computer security as well as in the design and implementation of number theoretic cryptosystems and other related areas. Another goal of the meeting was to stimulate collaboration and more active interaction between mathematicians, computer scientists, practical cryptographers and engineers in academia, industry and government.

**computer science gender ratio: *Gender, Sexuality, and Intimacy: A Contexts Reader*** Jodi O'Brien, Arlene Stein, 2017-01-13 This new anthology brings together over 90 recent readings on gender, sexuality, and intimate relationships from Contexts, the award-winning magazine published by the ASA. Each contributor is a contemporary sociologist writing in the clear, concise, and jargon-free style that has made Contexts the “public face” of sociology. The editors have chosen pieces that are timely, thought-provoking, and especially suitable for classroom use; written introductions that frame each of the books three main sections; and provided questions for discussion.

**computer science gender ratio: *The Computer Supported Collaborative Learning (CSCL) Conference 2013, Volume 2*** ISLS, 2014-04-23 The Computer Supported Collaborative Learning (CSCL) Conference 2013 proceedings, Volume 2

**computer science gender ratio: *2022 Computer Science - Editor's Pick*** Kaleem Siddiqi, Roberto Therón, Kostas Karpouzis, Sven Schewe, Nicola Zannone, Marcello Pelillo, Kristof Van Laerhoven, Paul Lukowicz, 2023-04-06

**computer science gender ratio: *Solving the Equation***, 2015 The book focuses on the underrepresentation of women in engineering and computing and provides practical ideas for educators and employers seeking to foster gender diversity. From new ways of conceptualizing the fields for beginning students to good management practices, the report recommends large and small actions that can add up to real change.

**computer science gender ratio: *Encyclopedia of Gender and Information Technology*** Trauth, Eileen M., 2006-06-30 This two volume set includes 213 entries with over 4,700 references to additional works on gender and information technology--Provided by publisher.

**computer science gender ratio: *Is There Anything Good About Men?*** Roy F. Baumeister, 2010-08-12 Have men really been engaged in a centuries-old conspiracy to exploit and oppress women? Have the essential differences between men and women really been erased? Have men now become unnecessary? Are they good for anything at all? In *Is There Anything Good About Men?*, Roy Baumeister offers provocative answers to these and many other questions about the current state of manhood in America. Baumeister argues that relations between men and women are now and have

always been more cooperative than antagonistic, that men and women are different in basic ways, and that successful cultures capitalize on these differences to outperform rival cultures. Amongst our ancestors---as with many other species--only the alpha males were able to reproduce, leading them to take more risks and to exhibit more aggressive and protective behaviors than women, whose evolutionary strategies required a different set of behaviors. Whereas women favor and excel at one-to-one intimate relationships, men compete with one another and build larger organizations and social networks from which culture grows. But cultures in turn exploit men by insisting that their role is to achieve and produce, to provide for others, and if necessary to sacrifice themselves. Baumeister shows that while men have greatly benefited from the culture they have created, they have also suffered because of it. Men may dominate the upper echelons of business and politics, but far more men than women die in work-related accidents, are incarcerated, or are killed in battle--facts nearly always left out of current gender debates. Engagingly written, brilliantly argued, and based on evidence from a wide range of disciplines, *Is There Anything Good About Men?* offers a new and far more balanced view of gender relations.

**computer science gender ratio:** *The Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate* Stephen J. Ceci, Wendy M. Williams, Shulamit Kahn, 2018-04-20 There is no shortage of articles and books exploring women's underrepresentation in science. Everyone is interested--academics, politicians, parents, high school girls (and boys), women in search of college majors, administrators working to accommodate women's educational interests; the list goes on. But one thing often missing is an evidence-based examination of the problem, uninfluenced by personal opinions, accounts of "lived experiences," anecdotes, and the always-encroaching inputs of popular culture. This is why this special issue of *Frontiers in Psychology* can make a difference. In it, a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical, objective approaches to understanding women's underrepresentation in science today. The questions considered within this special issue span academic disciplines, methods, levels of analysis, and nature of analysis; what these articles share is their scholarly, evidence-based approach to understanding a key issue of our time.

**computer science gender ratio: Advances in Computer Science and Ubiquitous Computing** James J. Park, Vincenzo Loia, Gangman Yi, Yunsick Sung, 2017-12-19 This book presents the combined proceedings of the 12th KIPS International Conference on Ubiquitous Information Technologies and Applications (CUTE 2017) and the 9th International Conference on Computer Science and its Applications (CSA2017), both held in Taichung, Taiwan, December 18 - 20, 2017. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state of the art in the development of computational methods, involving theory, algorithms, numerical simulation, error and uncertainty analysis and novel applications of new processing techniques in engineering, science, and other disciplines related to ubiquitous computing. James J. (Jong Hyuk) Park received Ph.D. degrees in Graduate School of Information Security from Korea University, Korea and Graduate School of Human Sciences from Waseda University, Japan. From December, 2002 to July, 2007, Dr. Park had been a research scientist of R&D Institute, Hanwha S&C Co., Ltd., Korea. From September, 2007 to August, 2009, He had been a professor at the Department of Computer Science and Engineering, Kyungnam University, Korea. He is now a professor at the Department of Computer Science and Engineering and Department of Interdisciplinary Bio IT Materials, Seoul National University of Science and Technology (SeoulTech), Korea. Dr. Park has published about 200 research papers in international journals and conferences. He has been serving as chair, program committee, or organizing committee chair for many international conferences and workshops. He is a steering chair of international conferences - MUE, FutureTech, CSA, CUTE, UCAWSN, World IT Congress-Jeju. He is editor-in-chief of Human-centric Computing and Information Sciences (HCIS) by Springer, The Journal of Information Processing Systems (JIPS) by KIPS, and Journal of Convergence (JoC) by KIPS CSWRG. He is Associate Editor / Editor of 14 international journals including JoS, JNCA, SCN, CJ, and so on. In addition, he has been

serving as a Guest Editor for international journals by some publishers: Springer, Elsevier, John Wiley, Oxford Univ. press, Emerald, Inderscience, MDPI. He got the best paper awards from ISA-08 and ITCS-11 conferences and the outstanding leadership awards from IEEE HPCC-09, ICA3PP-10, IEE ISPA-11, PDCAT-11, IEEE AINA-15. Furthermore, he got the outstanding research awards from the SeoulTech, 2014. His research interests include IoT, Human-centric Ubiquitous Computing, Information Security, Digital Forensics, Vehicular Cloud Computing, Multimedia Computing, etc. He is a member of the IEEE, IEEE Computer Society, KIPS, and KMMS. Vincenzo Loia (BS '85, MS '87, PhD '89) is Full Professor of Computer Science. His research interests include Intelligent Agents, Ambient intelligence, Computational Intelligence. Currently he is Founder & Editor-in-chief of "Ambient Intelligence and Humanized Computing", and Co-Editor-in-Chief of "Softcomputing", Springer-Verlag. He is Chair of the Task Forces "Intelligent Agents" and "Ambient Intelligence" IEEE CIS ETTC. He has been Chair the Emergent Technical Committee Emergent Technology, IEEE CIS Society and Vice-Chair of Intelligent Systems Applications Technical Committee. He has been author of more than 200 scientific works, Editor/co-editor of 4 Books, 64 journal papers, 25 book chapters, and 100 conference papers. He is Senior member of the IEEE, Associate Editor of IEEE Transactions on Industrial Informatics, and Associate Editor of IEEE Transactions on Systems, Man, and Cybernetics: Systems. Many times reviewers for national and international projects, Dr. Loia is active in the research domain of agents, ambient intelligence, computational intelligence, smartgrids, distributed platform for enrich added value. Gangman Yi in Computer Sciences at Texas A&M University, USA in 2007, and doctorate in Computer Sciences at Texas A&M University, USA in 2011. In May 2011, he joined System S/W group in Samsung Electronics, Suwon, Korea. He joined the Department of Computer Science & Engineering, Gangneung-Wonju National University, Korea, since March 2012. Dr. Yi has been researched in an interdisciplinary field of researches. His research focuses especially on the development of computational methods to improve understanding of biological systems and its big data. Dr. Yi actively serves as a managing editor and reviewer for international journals, and chair of international conferences and workshops. Yunsick Sung received his B.S. degree in division of electrical and computer engineering from Pusan National University, Busan, Korea, in 2004, his M.S. degree in computer engineering from Dongguk University, Seoul, Korea, in 2006, and his Ph.D. degree in game engineering from Dongguk University, Seoul, Korea, in 2012. He was employed as a member of the researcher at Samsung Electronics between 2006 and 2009. He was the plural professor at Shinheung College in 2009 and at Dongguk University in 2010. His main research interests are many topics in brain-computer Interface, programming by demonstration, ubiquitous computing and reinforcement learning. His Journal Service Experiences is Associate Editor at Human-centric Computing and Information Sciences, Springer (2015- Current).

**computer science gender ratio:** Gendered Paths into STEM. Disparities Between Females and Males in STEM Over the Life-Span Bernhard Ertl, Silke Luttenberger, M. Gail Jones, Rebecca Lazarides, Manuela Paechter, 2020-01-31

**computer science gender ratio:** **The SAGE Encyclopedia of Psychology and Gender** Kevin L. Nadal, 2017-04-15 The SAGE Encyclopedia of Psychology and Gender is an innovative exploration of the intersection of gender and psychology—topics that resonate across disciplines and inform our everyday lives. This encyclopedia looks at issues of gender, identity, and psychological processes at the individual as well as the societal level, exploring topics such as how gender intersects with developmental processes both in infancy and childhood and throughout later life stages; the evolution of feminism and the men's movement; the ways in which gender can affect psychological outcomes and influence behavior; and more. With articles written by experts across a variety of disciplines, this encyclopedia delivers insights on the psychology of gender through the lens of developmental science, social science, clinical and counseling psychology, sociology, and more. This encyclopedia will provide librarians, students, and professionals with ready access to up-to-date information that informs some of today's key contemporary issues and debates. These are the sorts of questions we plan for this encyclopedia to address: What is gender nonconformity? What are some of the evolutionary sex differences between men and women? How does gender-based workplace

harassment affect health outcomes? How are gender roles viewed in different cultures? What is third-wave feminism?

**computer science gender ratio: *Why So Few?*** Catherine Hill, Christianne Corbett, Andresse St. Rose, 2010 In an era when women are increasingly prominent in medicine, law and business, why are there so few women scientists and engineers? A new research report by AAUW presents compelling evidence that can help to explain this puzzle. *Why So Few? Women in Science, Technology, Engineering, and Mathematics* presents in-depth yet accessible profiles of eight key research findings that point to environmental and social barriers - including stereotypes, gender bias and the climate of science and engineering departments in colleges and universities - that continue to block women's participation and progress in science, technology, engineering, and math. The report also includes up to date statistics on girls' and women's achievement and participation in these areas and offers new ideas for what each of us can do to more fully open scientific and engineering fields to girls and women.--pub. desc.

**computer science gender ratio: *Statistics for Sport and Exercise Studies*** Peter O'Donoghue, 2013-06-19 *Statistics for Sport and Exercise Studies* guides the student through the full research process, from selecting the most appropriate statistical procedure, to analysing data, to the presentation of results, illustrating every key step in the process with clear examples, case-studies and data taken from real sport and exercise settings. Every chapter includes a range of features designed to help the student grasp the underlying concepts and relate each statistical procedure to their own research project, including definitions of key terms, practical exercises, worked examples and clear summaries. The book also offers an in-depth and practical guide to using SPSS in sport and exercise research, the most commonly used data analysis software in sport and exercise departments. In addition, a companion website includes more than 100 downloadable data sets and work sheets for use in or out of the classroom, full solutions to exercises contained in the book, plus over 1,300 PowerPoint slides for use by tutors and lecturers. *Statistics for Sport and Exercise Studies* is a complete, user-friendly introduction to the use of statistical tests, techniques and procedures in sport, exercise and related subjects. Visit the companion website at: [www.routledge.com/cw/odonoghue](http://www.routledge.com/cw/odonoghue)

**computer science gender ratio: *The Beauty of Mathematics in Computer Science*** Jun Wu, 2018-11-20 *The Beauty of Mathematics in Computer Science* explains the mathematical fundamentals of information technology products and services we use every day, from Google Web Search to GPS Navigation, and from speech recognition to CDMA mobile services. The book was published in Chinese in 2011 and has sold more than 600,000 copies. Readers were surprised to find that many daily-used IT technologies were so tightly tied to mathematical principles. For example, the automatic classification of news articles uses the cosine law taught in high school. The book covers many topics related to computer applications and applied mathematics including: Natural language processing Speech recognition and machine translation Statistical language modeling Quantitative measurement of information Graph theory and web crawler Pagerank for web search Matrix operation and document classification Mathematical background of big data Neural networks and Google's deep learning Jun Wu was a staff research scientist in Google who invented Google's Chinese, Japanese, and Korean Web Search Algorithms and was responsible for many Google machine learning projects. He wrote official blogs introducing Google technologies behind its products in very simple languages for Chinese Internet users from 2006-2010. The blogs had more than 2 million followers. Wu received PhD in computer science from Johns Hopkins University and has been working on speech recognition and natural language processing for more than 20 years. He was one of the earliest engineers of Google, managed many products of the company, and was awarded 19 US patents during his 10-year tenure there. Wu became a full-time VC investor and co-founded Amino Capital in Palo Alto in 2014 and is the author of eight books.

**computer science gender ratio: *Oxford Handbook of Ethics of AI*** Markus D. Dubber, Frank Pasquale, Sunit Das, 2020-06-30 This volume tackles a quickly-evolving field of inquiry, mapping the existing discourse as part of a general attempt to place current developments in historical context;

at the same time, breaking new ground in taking on novel subjects and pursuing fresh approaches. The term A.I. is used to refer to a broad range of phenomena, from machine learning and data mining to artificial general intelligence. The recent advent of more sophisticated AI systems, which function with partial or full autonomy and are capable of tasks which require learning and 'intelligence', presents difficult ethical questions, and has drawn concerns from many quarters about individual and societal welfare, democratic decision-making, moral agency, and the prevention of harm. This work ranges from explorations of normative constraints on specific applications of machine learning algorithms today-in everyday medical practice, for instance-to reflections on the (potential) status of AI as a form of consciousness with attendant rights and duties and, more generally still, on the conceptual terms and frameworks necessarily to understand tasks requiring intelligence, whether human or A.I.

**computer science gender ratio: Gender Differences in Human Cognition** John T. E. Richardson Professor of Psychology in the Department of Human Sciences Brunel University, Paula J. Caplan Professor of Psychology in the Department of Human Sciences Brunel University, Mary Crawford Professor of Psychology in the Department of Human Sciences Brunel University, Janet Shibley Hyde Professor of Psychology in the Department of Human Sciences Brunel University, 1997-08-12 This volume in the Counterpoints Series summarizes and addresses the validity of research into gender differences. It also questions the ideology behind this research, and its consequences. The work is intended for researchers and students in the field of cognitive psychology and women's studies, and psychologists interested in gender issues.

**computer science gender ratio: Talking about Leaving Revisited** Elaine Seymour, Anne-Barrie Hunter, 2019-12-10 Talking about Leaving Revisited discusses findings from a five-year study that explores the extent, nature, and contributory causes of field-switching both from and among "STEM" majors, and what enables persistence to graduation. The book reflects on what has and has not changed since publication of Talking about Leaving: Why Undergraduates Leave the Sciences (Elaine Seymour & Nancy M. Hewitt, Westview Press, 1997). With the editors' guidance, the authors of each chapter collaborate to address key questions, drawing on findings from each related study source: national and institutional data, interviews with faculty and students, structured observations and student assessments of teaching methods in STEM gateway courses. Pitched to a wide audience, engaging in style, and richly illustrated in the interviewees' own words, this book affords the most comprehensive explanatory account to date of persistence, relocation and loss in undergraduate sciences. Comprehensively addresses the causes of loss from undergraduate STEM majors—an issue of ongoing national concern. Presents critical research relevant for nationwide STEM education reform efforts. Explores the reasons why talented undergraduates abandon STEM majors. Dispels popular causal myths about why students choose to leave STEM majors. This volume is based upon work supported by the Alfred P. Sloan Foundation Award No. 2012-6-05 and the National Science Foundation Award No. DUE 1224637.

**computer science gender ratio: The Wiley Handbook of Gender Equity in Higher Education** Nancy S. Niemi, Marcus B. Weaver-Hightower, 2020-11-05 Research into gender equity in higher education, inspiring action With this enlightening handbook, you can review the thinking of leading researchers on the current intersection of gender and higher education. The Wiley Handbook of Gender Equity in Higher Education provides an in-depth look at education's complicated relationships with, and in some cases inadequate fostering of, gender equity. The collection offers a bold picture of research into the subject. It also projects future paths of exploration, inquiry, and action for gender equity. Focuses specifically on gender and higher education across the globe, setting the stage for new explorations Examines gender equity in relation to the STEM fields Considers current male participation in higher education Covers gender segregation by major and the issue of women remaining in lower-paying areas The Wiley Handbook of Gender Equity in Higher Education spotlights the continuing and integral role of educational institutions in the struggle for gender equity. Policy makers, university administrators, and researchers can look to this handbook for perspective on recent research as they move forward in

the pursuit of more equitable educational environments.

**computer science gender ratio:** *The Oxford Handbook of Women and the Economy* Susan L. Averett, Laura M. Argys, Saul D. Hoffman, 2018-05-15 The transformation of women's lives over the past century is among the most significant and far-reaching of social and economic phenomena, affecting not only women but also their partners, children, and indeed nearly every person on the planet. In developed and developing countries alike, women are acquiring more education, marrying later, having fewer children, and spending a far greater amount of their adult lives in the labor force. Yet, because women remain the primary caregivers of children, issues such as work-life balance and the glass ceiling have given rise to critical policy discussions in the developed world. In developing countries, many women lack access to reproductive technology and are often relegated to jobs in the informal sector, where pay is variable and job security is weak. Considerable occupational segregation and stubborn gender pay gaps persist around the world. The Oxford Handbook of Women and the Economy is the first comprehensive collection of scholarly essays to address these issues using the powerful framework of economics. Each chapter, written by an acknowledged expert or team of experts, reviews the key trends, surveys the relevant economic theory, and summarizes and critiques the empirical research literature. By providing a clear-eyed view of what we know, what we do not know, and what the critical unanswered questions are, this Handbook provides an invaluable and wide-ranging examination of the many changes that have occurred in women's economic lives.

**computer science gender ratio:** *All of Statistics* Larry Wasserman, 2013-12-11 Taken literally, the title All of Statistics is an exaggeration. But in spirit, the title is apt, as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics. This book is for people who want to learn probability and statistics quickly. It is suitable for graduate or advanced undergraduate students in computer science, mathematics, statistics, and related disciplines. The book includes modern topics like non-parametric curve estimation, bootstrapping, and classification, topics that are usually relegated to follow-up courses. The reader is presumed to know calculus and a little linear algebra. No previous knowledge of probability and statistics is required. Statistics, data mining, and machine learning are all concerned with collecting and analysing data.

**computer science gender ratio:** *Algorithms Unlocked* Thomas H. Cormen, 2013-03-01 For anyone who has ever wondered how computers solve problems, an engagingly written guide for nonexperts to the basics of computer algorithms. Have you ever wondered how your GPS can find the fastest way to your destination, selecting one route from seemingly countless possibilities in mere seconds? How your credit card account number is protected when you make a purchase over the Internet? The answer is algorithms. And how do these mathematical formulations translate themselves into your GPS, your laptop, or your smart phone? This book offers an engagingly written guide to the basics of computer algorithms. In *Algorithms Unlocked*, Thomas Cormen—coauthor of the leading college textbook on the subject—provides a general explanation, with limited mathematics, of how algorithms enable computers to solve problems. Readers will learn what computer algorithms are, how to describe them, and how to evaluate them. They will discover simple ways to search for information in a computer; methods for rearranging information in a computer into a prescribed order (“sorting”); how to solve basic problems that can be modeled in a computer with a mathematical structure called a “graph” (useful for modeling road networks, dependencies among tasks, and financial relationships); how to solve problems that ask questions about strings of characters such as DNA structures; the basic principles behind cryptography; fundamentals of data compression; and even that there are some problems that no one has figured out how to solve on a computer in a reasonable amount of time.

**computer science gender ratio:** *Women, Science, and Technology* Mary Wyer, Mary Barbercheck, Donna Cookmeyer, Hatice Ozturk, Marta Wayne, 2013-09-11 *Women, Science, and Technology* is an ideal reader for courses in feminist science studies. This third edition fully updates its predecessor with a new introduction and twenty-eight new readings that explore social

constructions mediated by technologies, expand the scope of feminist technoscience studies, and move beyond the nature/culture paradigm.

**computer science gender ratio: Data Feminism** Catherine D'Ignazio, Lauren F. Klein, 2020-03-31 A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever “speak for themselves.” *Data Feminism* offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But *Data Feminism* is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

**computer science gender ratio: Using Data to Improve Higher Education** Maria Eliophotou Menon, Dawn Geronimo Terkla, Paul Gibbs, 2014-11-26 In recent decades, higher education systems and institutions have been called to respond to an unprecedented number of challenges. Major challenges

**computer science gender ratio: Gender Equity in STEM in Higher Education** Hyun Kyoung Ro, Frank Fernandez, Elizabeth J. Ramon, 2021-07-11 This timely volume brings together a range of international scholars to analyse cultural, political, and individual factors which contribute to the continued global issue of female underrepresentation in STEM study and careers. Offering a comparative approach to examining gender equity in STEM fields across countries including the UK, Germany, the United States, Hong Kong, Taiwan, South Africa, and China, the volume provides a thematic breakdown of institutional trends and national policies that have successfully improved gender equity in STEM at institutions of higher education. Offering case studies that demonstrate how policies interact with changing social and cultural norms, and impact women's choices and experiences in relation to the uptake and continuation of STEM study at the undergraduate level, the volume highlights new directions for research and policy to promote gender equity in STEM at school, university, and career levels. Contributing to the United Nations' (UN) 2030 Agenda for Sustainable Development, this text will benefit researchers, academics, and educators with an interest in science education, higher education, and gender equity in STEM fields. The text will also support further discussion and reflection around multicultural education, educational policy and politics, and the sociology of education more broadly.

**computer science gender ratio: Advances in Materials and Manufacturing Engineering** Leijun Li, Dilip Kumar Pratihar, Suman Chakrabarty, Purna Chandra Mishra, 2020-01-09 This book gathers outstanding papers presented at the International Conference on Advances in Materials and Manufacturing Engineering (ICAMME 2019), held at KIIT Deemed to be University, Bhubaneswar, India, from 15 to 17 March 2019. It covers theoretical and empirical developments in various areas of mechanical engineering, including manufacturing, production, machine design, fluid/thermal engineering, and materials.

**computer science gender ratio: Broadening Participation in STEM** Zayika Wilson-Kennedy, Goldie S. Byrd, Eugene Kennedy, Henry T. Frierson, 2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines.



**computer science gender ratio: International Congress on Women in A Global World IV: Struggle for Equality (WGW2024) - Book of Abstracts / Uluslararası Küresel Dünyada Kadın Kongresi IV: Eşitlik için Mücadele (WGW2024) - Bildiri Özetleri Kitabı** Zeynep Banu Dalaman , Furkan Tozan, 2024-05-22 These abstracts offer insights into a wide array of topics related to women's issues. From education and employment to political representation and social roles, the abstracts underscore the multifaceted nature of gender discrimination. They highlight how these inequalities are particularly exacerbated during times of crisis, emphasising the urgent need for research and action in these areas.

**computer science gender ratio: Follow Your Interests to Find the Right College** Janet Mathers, Paul Marthers, 2016

**computer science gender ratio: Equal Educational Opportunity and Nondiscrimination for Girls in Advanced Mathematics, Science, and Technology Education** United States Commission on Civil Rights, 2000

**computer science gender ratio: Science & Engineering Indicators** , 2000

**computer science gender ratio: Technology, Development, and Democracy** Juliann Emmons Allison, 2012-02-01 Technology, Development, and Democracy examines the growing role of the Internet in international affairs, from a source of mostly officially sanctioned information, to a venue where knowledge is often merged with political propaganda, rhetoric and innuendo. The Internet not only provides surfers with up-to-the-minute stories, including sound and visual images, and opportunities to interact with one another and experts on international issues, but also enables anyone with access to a computer, modem, and telephone line to influence international affairs directly. What does this portend for the future of international politics? The contributors respond by providing theoretical perspectives and empirical analyses for understanding the impact of the communications revolution on international security, the world political economy, human rights, and gender relations. Internet technologies are evaluated as sources of change or continuity, and as contributors to either conflict or cooperation among nations. While the Internet and its related technologies hold no greater, certain prospect for positive change than previous technological advances, they arguably do herald significant advances for democracy, the democratization process, and international peace.

**computer science gender ratio: Computational Science And Its Applications - Iccsa 2005** Osvaldo Gervasi, 2005-04-27 The four-volume set LNCS 3480-3483 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2005, held in Singapore in May 2005. The four volumes present a total of 540 papers selected from around 2700 submissions. The papers span the whole range of computational science, comprising advanced applications in virtually all sciences making use of computational techniques as well as foundations, techniques, and methodologies from computer science and mathematics, such as high performance computing and communication, networking, optimization, information systems and technologies, scientific visualization, graphics, image processing, data analysis, simulation and modelling, software systems, algorithms, security, multimedia etc.

**computer science gender ratio: Technophobia** Mark J. Brosnan, 2002-09-26 Technology is taking over all aspects of life. Yet studies have shown that up to one half the population is 'technophobic'. This means having negative opinions or being anxious about information technology like personal computers. This book examines the origins of technophobia - what it is, who has it and what causes it. The impact of gender is examined and the social and cognitive psychological factors underlying technophobia are reviewed and combined into an overall psychological model. Techniques for reducing technophobia are discussed, and the effect of technophobia on everyone from school children to teenagers is analysed. Technophobia will be useful both for academic study of the area, and for those devising IT policy in schools, business and government.

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higher education; increased impact of internationalization and globalization, which are increasingly blurring national boundaries; increased competition among universities for limited resources to support higher education sector; the impact of technology and the knowledge economy; and the continuing quest educational for equity. Given what we already know about the position of women in the academy, what is so significant about the account of women represented in this book? Lessons from colleagues in Western universities provide important models for understanding some aspects of gendered identity of women scholars; however, a deeper understanding of educational experiences for women in countries such as China, Turkey, Iran, Pakistan, may potentially offer innovative insights to our current understanding of gender within education. In this age of globalization, there are common themes that transcend the experiences of women across very different social, cultural, economic, and political contexts. Therefore, accounts of women scholars represented in this volume demonstrate that the experiences women scholars are not isolated incidents but global phenomena, and may offer alternative approaches to problems that seem insurmountable to women at the bottom of the professional ladder. Further, the experiences of non-Western women scholars are important because it is only through an understanding of their educational conditions that institutions can implement policies and practices to respond effectively, and to create work environments that are supportive to professional aspirations of these scholars. Effective policies can only be attained when there is a clear understanding of the barriers and challenges female scholars. Given that gender concerns, especially in non-Western countries, have historically occupied and to some extent continue to occupy a marginal position in the daily operations of institutions of higher education, it is critical to highlight their potentially harmful effects not only on women scholars, but on institutions as well.

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