Online Library Innova Repair Solutions Software Read Pdf Free

Fundamental Approaches to Software Engineering **Electrical Measuring Instruments and Measurements Software Engineering Perspectives in Intelligent Systems** Report of the Secretary of the Senate *Report of the Secretary of the Senate from April 1, 2006 to September 30, 2006* **United States Congressional Serial, Serial No. 14865, Senate Documents Nos. 15-16 International Conference on Computer Science and Software Engineering (CSSE 2014) Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Sciences United States Congressional Serial Set, Serial No. 15003, Senate Document No. 25, Report of Secretary of Senate, April 1-Sept. 30, 2006, Pt. 2** *The Great Indian Phone Book* **Additive Manufacturing Green Software Defined Radios Report of the Secretary of the Senate from April 1, 2001 to September 30, 2001** *Report of the Secretary of the Senate from October 1, 2003 to March 31, 2004* **Official Gazette of the United States Patent and Trademark Office How to Use Automotive Diagnostic Scanners** *Semiannual Report of the Architect of the Capitol for the Period ... Pursuant to Section 105(b), Public Law 454, Eighty-eighth Congress* Report of the Secretary of the Senate from October 1, 1999 to March 31, 2000 Product Focused Software Process Improvement **Embedded Memories for Nano-Scale VLSIs** Search Based Software Engineering *108-2: Senate Document No. 108-14, Part 1* **Sad Macs, Bombs, and Other Disasters OEM Boards, Systems, and Software Handbook** Agent-Oriented Software Engineering VIII *Report of the Secretary of the Senate, From April 1, 2009 to September 30, 2009, Part I, 111-1, Senate Document 111-8* **Advances in Computer Science and Ubiquitous Computing** *Statement of Disbursements of the U.S. Capitol Police for the Period ...* REPORT OF THE SECRETARY OF THE SENATE, APRIL 1, 2008 TO SEPTEMBER 30, 2008, PART 1, 110-2 SENATE DOCUMENT 110-19 **InfoWorld A+ Guide to IT Technical Support (Hardware and Software)** Report of the Secretary of the Senate from October 1, 2000 to March 31, 2001 **Real-Time Object Uniform Design Methodology with UML Scientific and Technical Aerospace Reports** *Integrated Procedure for Fatigue Life Evaluation of Critical Structural Details in Oil Tankers* **Embedded and Networking Systems Byte Tools and Algorithms for the Construction and Analysis of Systems** *PC Magazine* **Year 2000 Software Crisis**

Green Software Defined Radios Nov 22 2021 Green Software De?ned Radios, the title of this book may have originated from a lackofinspiration,andthecombinationofhardwork,jetlag,anddrinkinggreentea. The message we want to convey however, is that SDRs are a promising technology for the future, providing they are designed for ef?cient usage of scarce resources: energy and spectrum. In the last years, the R&D teams focusing on wireless c- munication (around the world and at IMEC speci?cally), have realized great bre-throughs. It is our honor, building on this knowledge, to bring a comprehensive overview of the essential technologies. We are grateful that Springer is willing to publish in their collection on radio technologies, a book on green SDRs, a weird species still today, yet maybe the baseline for the day after tomorrow. Dear reader, we wish that you ?nd in the following pages, including the references, some int- esting insights, and that this book may live more or less up to your expectations (and hopefully more than less). Thisbook'sclosingstatesthatthequestforGreenSDRshasnotended,thisisjust the beginning. Concerning this book however, we are happy that today the opposite is true. We want to acknowledge our colleagues at IMEC for their great scienti?c contribution, and even more for the enjoyable cooperation.

United States Congressional Serial, Serial No. 14865, Senate Documents Nos. 15-16 May 29 2022

Year 2000 Software Crisis Jun 25 2019 It is never too late to prepare for Year 2000 computer failures. Before it is too late, or even after Year 2000, computer failures must be fixed as quickly and inexpensively as possible in order to avoid major liabilities and potential financial losses for your business or organization. While many current news stories report frightening and dire potential consequences of the dreaded Y2K computer crisis, you should be aware that there are in fact many hundreds of proven solutions for Year 2000 computer failures. Many of these solutions are either fully automatic or can be easily implemented within relatively short periods of time, if you carefully follow all the guidelines and apply techniques and tools explained in this book. One of the first published books about the Y2K software crisis, this was the very first book to promote use of software factory techniques to help automate methods of fixing and testing both mainframe legacy and personal computer systems. Year 2000 Software Crisis Solutions was an early Y2K computer books best seller, and has been used by thousands of programmers and project managers as a resource in planning and budgeting Y2K software repair projects. It continues to be a valuable reference that every computer professional should keep near their desk in the last critical months before the end of 1999, as well as after Year 2000, when the urgency increases to quickly repair the systems that did not get completely fixed before the Year 2000.

Tools and Algorithms for the Construction and Analysis of Systems Aug 27 2019 This book constitutes the refereed proceedings of the 17th International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2011, held in Saarbrücken, Germany, March 26—April 3, 2011, as part of ETAPS 2011, the European Joint Conferences on Theory and Practice of Software. The 32 revised full papers presented were carefully reviewed and selected from 112 submissions. The papers are organized in topical sections on memory models and consistency, invariants and termination, timed and probabilistic systems, interpolations and SAT-solvers, learning, model checking, games and automata, verification, and probabilistic systems.

Embedded Memories for Nano-Scale VLSIs Mar 15 2021 Kevin Zhang Advancement of semiconductor technology has driven the rapid growth of very large scale integrated (VLSI) systems for increasingly broad applications, incl- ing high-end and mobile computing, consumer electronics such as 3D gaming, multi-function or smart phone, and various set-top players and ubiquitous sensor and medical devices. To meet the increasing demand for higher performance and lower power consumption in many different system applications, it is often required to have a large amount of on-die or embedded memory to support the need of data bandwidth in a system. The varieties of embedded memory in a given system have alsobecome increasingly more complex, ranging fromstatictodynamic and volatile to nonvolatile. Among embedded memories, six-transistor (6T)-based static random access memory (SRAM) continues to play a pivotal role in nearly all VLSI systems due to its superior speed and full compatibility with logic process technology. But as the technology scaling continues, SRAM design is facing severe challenge in mainta- ing suf?cient cell stability margin under relentless area scaling. Meanwhile, rapid expansion in mobile application, including new emerging application in sensor and medical devices, requires far more aggressive voltage scaling to meet very str- gent power constraint. Many innovative circuit topologies and techniques have been extensively explored in recent years to address these challenges.

Integrated Procedure for Fatigue Life Evaluation of Critical Structural Details in Oil Tankers Nov 30 2019

How to Use Automotive Diagnostic Scanners Jul 19 2021 From hand-held, dedicated units to software that turns PCs and Palm Pilots into powerful diagnostic scanners, auto enthusiasts today have a variety of methods available to make use of on-board diagnostic systems. And not only can they be used to diagnose operational faults, they can be used as low-budget data acquistion systems and dynamometers, so you can maximize your vehicle's performance. Beginning with why scanners are needed to work effectively on modern cars, this book teaches you how to choose the right scanner for your application, how to use the tool, and what each code means. "How To Use Automotive Diagnostic Scanners" is illustrated with photos and diagrams to help you understand OBD-I and OBD-II systems (including CAN) and the scanners that read the information they record. Also included is a comprehensive list of codes and what they mean. From catalytic converters and O2 sensors to emissions and automotive detective work, this is the complete reference for keeping your vehicle EPA-compliant and on the road!

Electrical Measuring Instruments and Measurements Oct 02 2022 This book, written for the benefit of engineering students and practicing engineers alike, is the culmination of the author's four decades of experience related to the subject of electrical measurements, comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions. The unique feature of this book, apart from covering the syllabi of various universities, is the style of presentation of all important aspects and features of electrical measurements, with neatly and clearly drawn figures, diagrams and colour and b/w photos that illustrate details of instruments among other things, making the text easy to follow and comprehend. Enhancing the chapters are interspersed explanatory comments and, where necessary, footnotes to help better understanding of the chapter contents. Also, each chapter begins with a "recall" to link the subject matter with the related science or phenomenon and fundamental background. The first few chapters of the book comprise "Units, Dimensions and Standards"; "Electricity, Magnetism and Electromagnetism" and "Network Analysis". These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters. The last two chapters represent valuable assets of the book, and relate to (a) "Magnetic Measurements", describing many unique features not easily available elsewhere, a good study of which is essential for the design and development of most electric equipment – from motors to transformers and alternators, and (b) "Measurement of Non-electrical Quantities", dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices. The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters. Other useful features of the book include an elaborate chapter-by-chapter list of symbols, worked examples, exercises and quiz questions at the end of each chapter, and extensive authors' and subject index. This book will be of interest to all students taking courses in electrical measurements as a part of a B.Tech. in electrical engineering. Professionals in the field of electrical engineering will also find the book of use.

Fundamental Approaches to Software Engineering Nov 03 2022 This book is Open Access under a CC BY licence. This book constitutes the proceedings of the 22nd International Conference on Fundamental Approaches to Software Engineering, FASE 2019, which took place in Prague, Czech Republic in April 2019, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2019.The 24 papers presented in this volume were carefully reviewed and selected from 94 submissions. The papers are organized in topical sections named: software verification; model-driven development and model transformation; software evolution and requirements engineering; specification, design, and implementation of particular classes of systems; and software testing.

Report of the Secretary of the Senate from October 1, 2000 to March 31, 2001 Mar 03 2020

Software Engineering Perspectives in Intelligent Systems Sep 01 2022 This book constitutes the refereed proceedings of the 4th Computational Methods in Systems and Software 2020 (CoMeSySo 2020) proceedings. Software engineering, computer science and

artificial intelligence are crucial topics for the research within an intelligent systems problem domain. The CoMeSySo 2020 conference is breaking the barriers, being held online. CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high-quality research results.

Scientific and Technical Aerospace Reports Jan 01 2020

Report of the Secretary of the Senate from October 1, 1999 to March 31, 2000 May 17 2021

OEM Boards, Systems, and Software Handbook Nov 10 2020

Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Sciences Mar 27 2022 In this fully up-to-date volume, important new developments and applications of discrete element modelling are highlighted and brought together for presentation at the First International UDEC/3DEC Symposium. Papers covered the following key areas: * behaviour of masonry structures (walls, bridges, towers, columns) * stability and deformation of tunnels and caverns in fractured rock masses * geomechanical modelling for mining and waste repositories * rock reinforcement design (anchors, shotcrete, bolts) * mechanical and hydro-mechanical behaviour of dams and foundations * rock slope stability, deformation and failure mechanisms * modelling of fundamental rock mechanical problems * modelling of geological processes * constitutive laws for fractured rock masses and masonry structures * dynamic behaviour of discrete structures. Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering, and Earth Sciences provides an ultra-modern, in-depth analysis of discrete element modelling in a range of different fields, thus proving valuable reading for civil, mining, and geotechnical engineers, as well as other interested professionals.

Product Focused Software Process Improvement Apr 15 2021 The Third International Conference on Product Focused Software Process Improvement (PROFES 2001) continued the success of the PROFES'99 and PROFES 2000 conferences. PROFES 2001 was organized in Kaiserslautern, Germany, September 10 13, 2001. The PROFES conference has its roots in the PROFES Esprit project (http://www.ele.vtt.fi/profes/), but it quickly evolved into a full fledged general purpose conference in 1999 and since then it has gained wide spread international popularity. As in previous years, the main theme of PROFES 2001 was professional software process improvement (SPI) motivated by product and service quality needs. SPI is facilitated by software process assessment, software measurement, process modeling, and technology transfer and has become a practical tool for quality software engineering and management. The conference addresses both the solutions found in practice as well as relevant research results from academia. The purpose of the conference is to bring to light the most recent findings and results in the area and to stimulate discussion between the researchers, experienced professionals, and technology providers for SPI.

Report of the Secretary of the Senate from April 1, 2006 to September 30, 2006 Jun 29 2022

Official Gazette of the United States Patent and Trademark Office Aug 20 2021

Report of the Secretary of the Senate, From April 1 to September 30, 2009, Part I, 111-1, Senate Document 111-8 Sep 08 2020

Additive Manufacturing Dec 24 2021 Additive Manufacturing: A Tool for Industrial Revolution 4.0 explores the latest developments, underlying mechanisms, challenges and opportunities for 3D printing in a digital manufacturing environment. It uses an international panel of experts to explain how additive manufacturing processes have been successfully integrated with industry 4.0 technologies for increased technical capabilities, efficiency, flexibility and sustainability. The full manufacturing product cycle is addressed, including design, materials, mechanical properties, and measurement. Future directions for this important technological intersection are also explored. This book will interest researchers and industrial professionals in industrial engineering, digital manufacturing, advanced manufacturing, data science applications, and computer engineering. Addresses a wide range of additive manufacturing technology, including processes, controls and operation Explains many new and sustainable additive manufacturing methods Provides detailed descriptions on how to modernize and optimize conventional additive manufacturing methodologies in order to take full advantage of synergies with industry 4.0

Report of the Secretary of the Senate from October 1, 2003 to March 31, 2004 Sep 20 2021

Statement of Disbursements of the U.S. Capitol Police for the Period ... Jul 07 2020 Covers receipts and expenditures of appropriations and other funds.

Report of the Secretary of the Senate Jul 31 2022

Search Based Software Engineering Feb 11 2021 This book constitutes the refereed proceedings of the 8th International Symposium on Search-Based Software Engineering, SSBSE 2016, held in Raleigh, NC, USA, in October 2016.The 13 revised full papers and 4 short papers presented together with 7 challenge track and 4 graduate student track papers were carefully reviewed and selected from 48 submissions. Search Based Software Engineering (SBSE) studies the application of meta-heuristic optimization techniques to various software engineering problems, ranging from requirements engineering to software testing and maintenance.

A+ Guide to IT Technical Support (Hardware and Software) Apr 03 2020 This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ Guide to IT Technical Support, 9th Edition closely integrates the CompTIA+ Exam objectives to prepare you for the 220-901 and 220-902 certification exams. The new Ninth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair and information technology. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. The new edition features more coverage of updated hardware, security, virtualization, new coverage of cloud computing, Linux and Mac OS, and increased emphasis on mobile devices. Supported by a wide range of supplemental resources to enhance learning with Lab Manuals, CourseNotes online labs and the optional MindTap that includes online labs, certification test prep and interactive exercises and activities, this proven text offers students an ideal way to prepare for success as a professional IT support technician and administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

International Conference on Computer Science and Software Engineering (CSSE 2014) Apr 27 2022 CSSE2014 proceeding tends to collect the most up-to-date, comprehensive, and worldwide state-of-art knowledge on Computer Science and Software Engineering. All the accepted papers have been submitted to strict peer-review by 2–4 expert referees, and selected based on originality, significance and clarity for the purpose of the conference. The conference program is extremely rich, profound and featuring high-impact presentations of selected papers and additional late-breaking contributions. We sincerely hope that the conference would not only show the participants a broad overview of the latest research results on related fields, but also provide them with a significant platform for academic connection and exchange. The Technical Program Committee members have been working very hard to meet the deadline of review. The final conference program consists of 126 papers divided into 4 sessions.

Real-Time Object Uniform Design Methodology with UML Jan 31 2022 This multi-function volume starts off as an ideal basic textbook for teaching object modeling, fundamental concepts learning and system designing with thirteen UML diagrams. But it also contains a whole section devoted to advanced research topics, samples and case studies. It is an essential work for any system developer or graduate student in a discipline that requires the power of object modeling as part of a development methodology.

United States Congressional Serial Set, Serial No. 15003, Senate Document No. 25, Report of Secretary of Senate, April 1-Sept. 30, 2006, Pt. 2 Feb 23 2022

Agent-Oriented Software Engineering VIII Oct 10 2020 Software architectures that contain many dynamically interacting components, each with its own thread of control, engaging in complex coordination protocols, are difficult to correctly and efficiently engineer. Agent-oriented modelling techniques are important for the design and development of such applications. This book provides a diverse and interesting overview of the work that is currently being undertaken by a growing number of researchers in the area of Agent-Oriented Software Engineering. This volume constitutes the thoroughly refereed proceedings of the 8th International Workshop on Agent-Oriented Software Engineering, AOSE 2007, held in Honolulu, Hawaii in May 2007 as part of AAMAS 2007. The 16 revised full papers were carefully selected from numerous submissions during two rounds of reviewing and improvement. The volume contains the papers presented at the workshop, together with papers resulting from discussions on tools and platforms. The papers have been organized into four sections on: methodology and processes, interacting heterogeneous agents, system development issues, and tools and case studies.

Semiannual Report of the Architect of the Capitol for the Period ... Pursuant to Section 105(b), Public Law 454, Eighty-eighth Congress Jun 17 2021

Report of the Secretary of the Senate from April 1, 2001 to September 30, 2001 Oct 22 2021

The Great Indian Phone Book Jan 25 2022 Over just a decade in India, the mobile phone was transformed from a rare, unwieldy instrument to a palm-sized staple that even poor fisherman can afford. Assa Doron and Robin Jeffrey investigate the social revolution ignited by what may be the most significant communications device in history and explore the whole ecosystem of cheap mobile phones.

108-2: Senate Document No. 108-14, Part 1 Jan 13 2021

REPORT OF THE SECRETARY OF THE SENATE, APRIL 1, 2008 TO SEPTEMBER 30, 2008, PART 1, 110-2 SENATE DOCUMENT 110-19 Jun 05 2020

InfoWorld May 05 2020 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Sad Macs, Bombs, and Other Disasters Dec 12 2020 A troubleshooting guide for Macintosh users, covering Mac OS 9 and the G4s, explains how to cope with frozen systems, error messages, and extension conflicts

Byte Sep 28 2019

PC Magazine Jul 27 2019

Advances in Computer Science and Ubiquitous Computing Aug 08 2020 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 Committe "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).

Embedded and Networking Systems Oct 29 2019 Embedded and Networking Systems: Design, Software, and Implementation explores issues related to the design and synthesis of high-performance embedded computer systems and networks. The emphasis is on the fundamental concepts and analytical techniques that are applicable to a range of embedded and networking applications, rather than on specific embedded architectures, software development, or system-level integration. This system point of view guides designers in dealing with the trade-offs to optimize performance, power, cost, and other system-level non-functional requirements. The book brings together contributions by researchers and experts from around the world, offering a global view of the latest research and development in embedded and networking systems. Chapters highlight the evolution and trends in the field and supply a fundamental and analytical understanding of some underlying technologies. Topics include the co-design of embedded systems, code optimization for a variety of applications, power and performance trade-offs, benchmarks for evaluating embedded systems and their components, and mobile sensor network systems. The book also looks at novel applications such as mobile sensor systems and video networks. A comprehensive review of groundbreaking technology and applications, this book is a timely resource for system designers, researchers, and students interested in the possibilities of embedded and networking systems. It gives readers a better understanding of an emerging technology evolution that is helping drive telecommunications into the next decade.