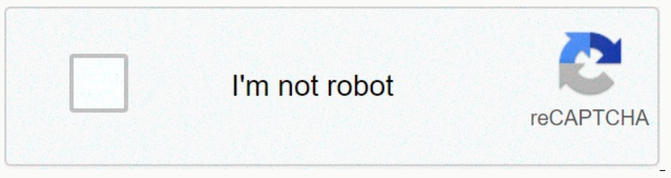

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Isscc 2020 tutorials

Mercier and the EEMS Lab will be very active at ISSCC 2020 next year! Firstly – congratulations to Po-Han Wang, Hongsen Yang and the collaboration with Prof. This paper will demonstrate the first chip for a pragmatic WiFi-compatible backscatter, with a demonstration of communication of over 10 meters at record power levels. More details on this exciting progress will be available in February 2020. This document continues EEMS Lab's ISSCC series with 11 articles in the last 4 years. Mercier has multiple other activities at ISSCC 2020, including providing a tutorial on interface circuits for wearable and implantable detection systems. He is also co-organizer of two forums: Power Management as an Enabler of Future SoC's and Sensors for Health. Finally, Mercier is co-host of the ISSCC 2020 industrial showcase, which will highlight how advances in silicon circuits, SOCs and systems are fueling the most innovative industrial applications and products of the future. We look forward to an exciting and crowded ISSCC 2020! On Thursday there is a short all-day course, which offers an in-depth learning experience on a specific topic. The short course consists of four industry-leading expert conferences in a class-like format. The short course is aimed at experienced designers who want to explore a new area in depth. Circuit design in advanced CMOS technologies — Considerations and considerations on devices and physical design for circuits in FinFET Alvin Loke technology, TSMC modeling and RF design considerations for advanced CMOS technology Ali Niknejad, University of California, Berkeley High-speed and mixed signal circuit design techniques in FinFET technology for wireline and optical interface applications FinFET technology for wireline and optical interface applications Jonathan Proesel , IBM Thomas J. Watson Research Center Embedded Memory and Support Circuitry Design Considerations in Advanced CMOS Technology Eric Karl, Intel Download the ISSCC Advance Program 2020 There are a total of ten tutorials this year on ten different topics. Each 90-minute tutorial, selected through a competitive process within each ISSCC subcommittee, presents the basic concepts and working principles of a single circuit design topic. These tutorials are intended for non-experts, graduate students, and practicing engineers who want to explore and understand a new topic. Built-in transformer fundamentals: From principles to applications Analog building blocks of DCDC converter interface circuits for wearable and implantable detection systems Basics on non-voluntary memories: RRAM, Germany and PRAM Fundamentals of Time-Interleaved ADCs Digital Fractional-N Phase Locked Loop Design Basics of Digital Low-Dropout (LDO) Integrated Voltage Regulators Capacitive Sensor Interfaces Fundamentals of Wireless Transceiver Circuits and Architectures (from 2G to 5G) How to Understand and Evaluate Deep Learning Processors Download the 2020 ISSCC Advance Program Presentations and videos from all 12 tutorials (90 minutes each) will be available online , on-demand, Friday, February 5, 2021, 5:00 p.m., PST through March 31, 2021. Live Q&A sessions for tutorials will be available on February 13, 2021, from 7:00 am to 9:00 am PST There are a total of 12 tutorials this year on 12 different topics. Each tutorial, selected through a competitive process within each ISSCC subcommittee, presents the basic concepts and working principles of a single topic. These tutorials are intended for non-experts, graduate students, and practicing engineers who want to explore and understand a new topic. The fundamentals of the RF and Mm-Wave power amplifier design the fundamentals of designing memory subsystems for HPC and AI silicon photonics, from the basics to ASICs that measure and evaluate the level of security of circuit calibration techniques in ADCs Basics on DAC-based wireline transmitters Basic design approaches to accelerate deep neural network interconnections on chips : Basic concepts, projects and future opportunities for stability amplifier design Foundations of fully integrated voltage regulators Low power wireless computer interfaces : Fundamentals on future technologies Download the free online tutorials of the ISSCC Advance 2021 program and the short courses of past years of ISSCC are a new advantage for members starting in 2011. Renowned experts in their fields help you keep up very quickly in a new area and provide insight into ongoing developments. Great for graduates to fill out their knowledge portfolio. Great for the experienced engineer to ensure a broad integration of his skill set and understanding. The single-screen IEEE web account window will verify SSCS membership. Download the transcript to take notes on your way. The Camtasia file will start playing after about 90 seconds of upload, so it will continue to load while you are listening. The progress of the program before uploading the full file will not work. But after a few minutes you will be able to select to play further away in the program. Programs from 2007 onwards, can be controlled by selecting a summary of the slide number. In previous years, you can advance the status bar in deeper in the 90-minute program once the rest of the file is uploaded. Start exploring tutorials now by using the Online Tutorial menu on the left navigation bar. Non-SSCS members can purchase programs for 2007 through the IEEE Shop. Use the SSCS the SSCS Portal to select a course. The authentication process takes place through the IEEE Shop. Then return to the training portal with the sign-up key to play the tutorial. The 2007 offerings through the IEEE store are in streaming video mode. SSCS members are streaming audio and capturing the screen. ISSCC tutorials and short courses 2015 and 2016 can be purchased through the ISSCC store. #isscc #circuitsISSCC is the flagship conference of the Solid-State Circuits Society and is the leading forum to present progress in solid state circuits and systems on a chip. The Conference offers a... Seiten, die von der Seite mit Gefällt mir markiert wurden20.037 gefällt dasThe official Facebook page for the IEEE Awards. We celebrate technological triumphs and inspire the future... IEEE Blended Learning Program7.016 gefällt dasIEEE Blended Learning Program is a new IEEE initiative that has been specially designed to... Aktueller Beitrag der Seite30. 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