Topic Selection

- Sources of report topics:
  - IEEE P802.3an Task Force Public Area
  - Signal Integrity Journal
  - DesignCon (high-speed communications and system design conference)
- Desired topics:
  - Related to 10GBASE-T signal processing techniques, such as Clock Recovery, Decision Feedback Equalizer (DFE), THP Precoding, Adaptive Filter, LDPC Codes
  - Related to wireline communication, such as channel impairments (jitter, phase noise), channel modelling, performance analysis
  - To be specific (Don’t be too general)
- Please inform me of your topic and reference documents **before 12/13(Wed.)**

IEEE P802.3an Task Force Public Area

- May 2006 Interim material *new*
- April 2006 Interim material
- March 2006 Plenary week material
- January 2006 Interim week material
- November 2005 Plenary week material
- October 2005 Interim week material
- September 2005 Interim week material
- July 2005 Plenary week material
- May 2005 Interim week material
- March 2005 Plenary week material
- February 2005 Interim week material
- January 2005 Interim week material
- November 2004 Plenary week material
- September 2004 Interim week material
- July 2004 Plenary week material
- May 2004 Interim week material
- March 2004 Plenary week material

September 2004 Interim Week
P802.3an Task Force Meeting

Sept. 29 - Oct. 1, 2004
Ottawa, ON

Document	Presenter(s)
all_files.zip *21-Oct-04; 7891K*	
Approved Minutes *21-Oct-04; 24K*	George Eisler
Agenda and General Information *5-Oct-04; 1999K*	Brad Booth
Spreadsheet: Agenda *28-Sep-04; 12K*	Brad Booth
Editor's Report *28-Sep-04; 49K*	Sanjay Kasturia
Comments received on D1.0 *28-Sep-04; 44K*	
Comments responses on D1.0 *19-Oct-04; 51K*	
TIA TR-42 Liaison to IEEE *22-Sep-04; 70K*	Sterling Vaden (for Valerie Rybinski)
A Comparative Study the Proposed LDPC Codes *22-Sep-04; 39K*	Jose Tellado (for Darish Dabiri)
On The Need For Precoder Updates In Data Mode: Laboratory Results *22-Sep-04; 73K*	William Jones
LDPC Evaluation for 10GBT	Chine-Hsin Lee

Featured White Papers

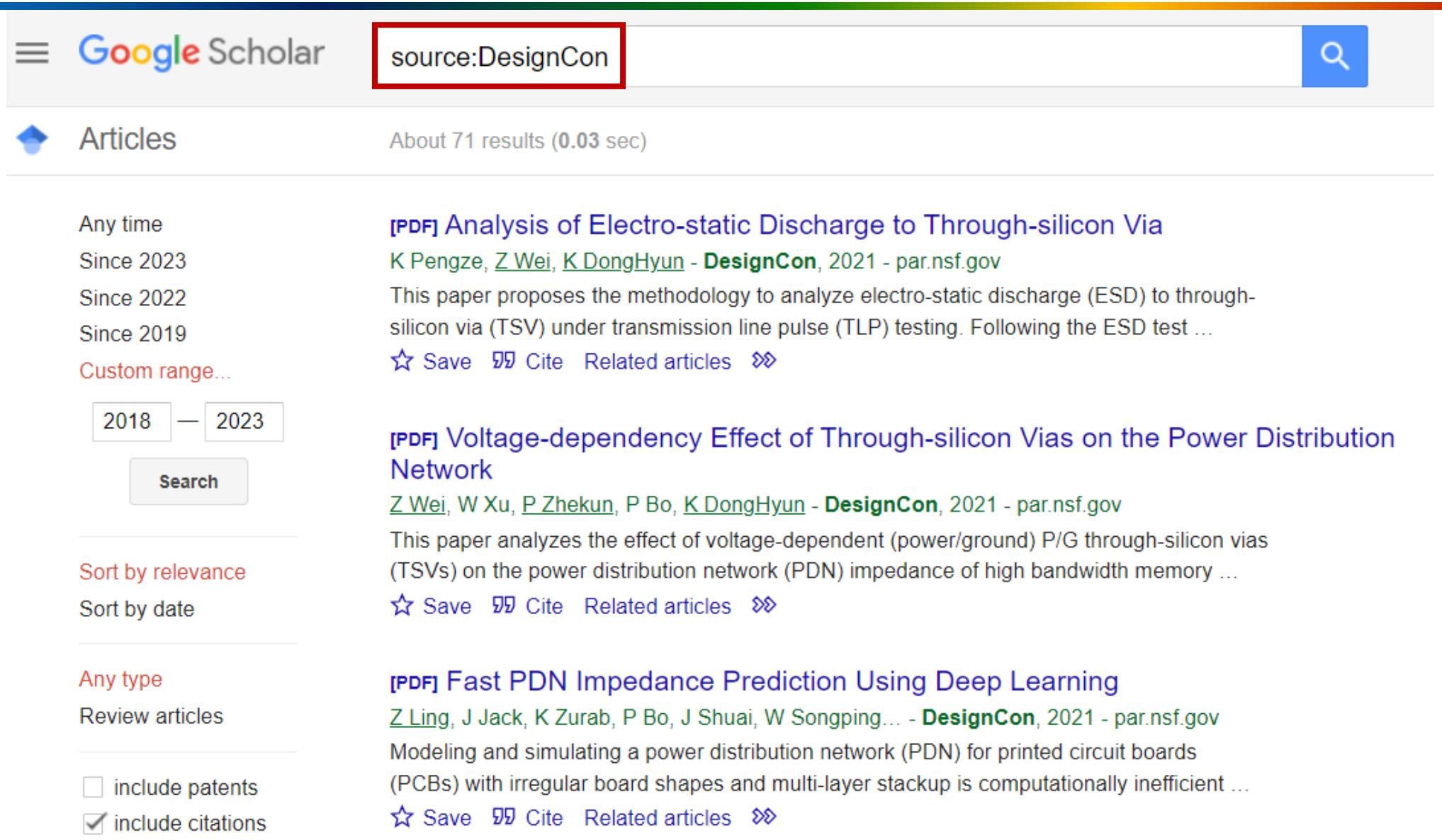
RSS

Noise in Traffic: Signal Emulation for Automotive Apps

November 14, 2023 *BitifEye* *0 Comments*

BitifEye introduces the signal impairments required for receiver testing in the emerging automotive standards like ASA, MIPI's A-PHY, Automotive Ethernet, etc. From "automotive cable crosstalk" to "car noise" to "fast transient pulses," the standards specify different sources of noise in different ways, some as in the form of time evolutions, others as spectra; this article focuses on techniques for generating and calibrating each noise source. In the process, they describe advanced de-embedding techniques and address test equipment limitations.

DesignCon


Google Scholar
source:DesignCon
Articles
About 71 results (0.03 sec)
Any time
Since 2023
Since 2022
Since 2019
Custom range...
2018 — 2023
Search
Sort by relevance
Sort by date
Any type
Review articles
include patents
include citations
[PDF] Analysis of Electro-static Discharge to Through-silicon Via
K Pengze, Z Wei, K DongHyun - DesignCon, 2021 - par.nsf.gov
This paper proposes the methodology to analyze electro-static discharge (ESD) to through-silicon via (TSV) under transmission line pulse (TLP) testing. Following the ESD test …
Save Cite Related articles
[PDF] Voltage-dependency Effect of Through-silicon Vias on the Power Distribution Network
Z Wei, W Xu, P Zhekun, P Bo, K DongHyun - DesignCon, 2021 - par.nsf.gov
This paper analyzes the effect of voltage-dependent (power/ground) P/G through-silicon vias (TSVs) on the power distribution network (PDN) impedance of high bandwidth memory …
Save Cite Related articles
[PDF] Fast PDN Impedance Prediction Using Deep Learning
Z Ling, J Jack, K Zurab, P Bo, J Shuai, W Songping… - DesignCon, 2021 - par.nsf.gov
Modeling and simulating a power distribution network (PDN) for printed circuit boards (PCBs) with irregular board shapes and multi-layer stackup is computationally inefficient …
Save Cite Related articles

Report Formats

1. What is the issue/problem?
   - Provide background knowledge for us to understand the issue/problem
2. How is the issue/problem solved?
   - Use simple examples to illustrate the methods
3. What are the performance results or figures?
4. What are the important conclusions?

Report Grading

Each student has to produce his own final report.

- Report Slide (50%):
  - Requirement: Organization & Clarity, Style (format & writing), Completeness
- Oral Presentation (50%):
  - Duration: 10~15 min
  - Requirement: Organization & Clarity