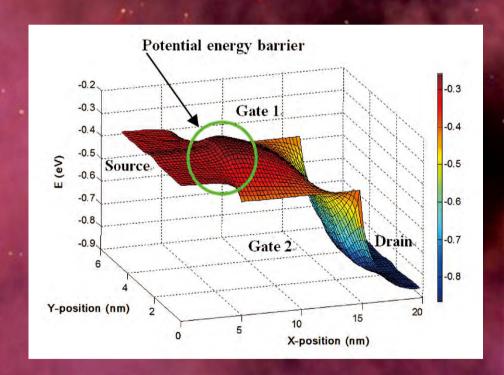


Circuits and Systems

OHEGICS GUIDES 12 CELLS





Journal Editorial Board

ISSN Print: 2153-1285 ISSN Online: 2153-1293 http://www.scirp.org/journal/cs

.....

Editors-in-Chief

Prof. Mehdi AnwarUniversity of Connecticut, USAProf. Gyungho LeeKorea University, South Korea

Associate Editor-in-Chief

Prof. Jichai Jeong Korea University, South Korea

Editorial Board

Prof. Terry L. Alford Arizona State University, USA

Prof. Dong-Ho ChoKorea Advanced Institute of Science and Technology, South Korea

Prof. John Choma University of Southern California, USA

Dr. Bhaskar Choubey University of Glasgow, UK

Dr. Wonzoo Chung Korea University, South Korea

Dr. Nanditha Dissanayake Brookhaven National Laboratory, USA

Prof. Syed Kamrul Islam University of Tennessee, USA
Prof. Ju Wook Jang Sogang University, South Korea
Prof. Yichuan Jiang Southeast University, China

Dr. Yogesh N. Joglekar Indiana University-Purdue University Indianapolis, USA

Prof. Chi Chung KoNational University of Singapore, Singapore

Dr. Guowang MiaoDr. Sudarshan R. NelaturyPennsylvania State University, USA

Dr. Shriram Raghunathan Cyberonics, Inc., USA

Prof. Fathi M. Salem Michigan State University, USA

Prof. Victor Sreeram University of Western Australia, Australia

Prof. Theodore B. Trafalis The University of Oklahoma, USA

Prof. Fan-Gang Tseng National Tsing Hua University, Chinese Taipei

Prof. Vincenzo Tucci University of Salerno, Italy

Dr. Fei Zhang Michigan State University, USA

Dr. Zuxing Zhang Tohoku University, Japan



TABLE OF CONTENTS

Volume 5	Number 1	January 2014
Dual DVCC I	Based Voltage-Mode Digitally Programmable	Biquadratic Filter
A. Imran, D. A	Arora, R. Kumar	1
Design of Lov	w Power Comparator Using DG Gate	
B. Dehghan, A	A. Roozbeh, J. Zare	7
New Electron	nically-Controllable Lossless Synthetic Floatin	g Inductance Circuit Using Single VDCC
D. Prasad, J. A	Ahmad	13
Mixed-Mode	Device Modeling of DGMOS RF Oscillators	
M. Bella, S. L	atreche, S. Labiod, C. Gontrand	18
Anti-Windup	Digital Control Design for Time-Delayed An	alog Nonlinear Systems
Using Approx	ximated Scalar Sign Function	
W. H. Ali, Y.	P. Zhang, J. Zhang, J. H. Fuller, LS. Shieh	27

OPEN ACCESS CS

The figure on the front cover is from the article published in Circuits and Systems, 2014, Vol. 5, No. 1, pp. 18-26 by Mourad Bella, *et al*.

Circuits and Systems (CS)

Journal Information

SUBSCRIPTIONS

The *Circuits and Systems* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$69 per copy.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2014 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: cs@scirp.org





Circuits and Systems

ISSN Print: 2153-1285 ISSN Online: 2153-1293

http://www.scirp.org/journal/cs

Circuits and Systems is an international journal dedicated to the latest advancement of theories, methods and applications in electronics, circuits and systems. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of electronics, circuits and systems.

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Analog Integrated Circuits
- Analog Signal Processing
- Blind Signal Processing
- Circuits and Systems for Communication and Information Technologies
- Circuits and Systems for Trusted Communications and Computing
- Computer and Processor Architecture
- Computer-Aided Network Design
- Digital Integrated Circuits
- Digital Signal Processing
- Digital System Design
- Distributed Sensor Networks and Systems
- Electronic Design Automation
- Embedded System and Software

- Graph Theory and Computing
- Low-Voltage Low-Power Circuits
- Memristors
- Multimedia Systems and Applications
- Nanoelectronics and Gigascale Systems
- Neural Systems and Applications
- Nonlinear Circuits and Systems
- Optoelectronics and Laser Technology
 Power Systems and Power Electronic Circuits
- Reconfigurable Architectures
- System-Level Synthesis
- Telemedicine
- Visual Signal Processing and Communications
- VLSI Systems and Applications

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

http://www.scirp.org/journal/cs E-mail: cs@scirp.org