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Electrical Engineering – Electronics and / Telecommunications

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Education

■ B.Sc: Amirkabir University of Technology, , 1379→1384

■ M.Sc: Sharif University of Technology, , 1384→1386

■ Ph.D: Sharif University of Technology, , 1387→1392

Research Interests

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Industry Collaborations

■ طراحی تراشه فرستنده - گیرنده برای کاربرد خودرویی
1398

■ مطالعه و پژوهش پیرامون تقویت کننده توان بالای فرکانس رادیویی و رائه طرح یک نمونه اولیه
1397

Journal Papers

■ A Wide-Input-/Output-Voltage-Range Buck Converter With Adaptive Light-Load Efficiency Improvement and Seamless Mode Transition
Amir Besharati Rad, Masoud Kargaran, Masoud Meghdadi, Ali Medi
IEEE TRANSACTIONS ON POWER ELECTRONICS, Vol.39, pp. 2200-2212, 2024

■ An Ultra-Low-Noise Buck Converter for Noise-Sensitive Applications
Amir Besharati Rad, Masoud Kargaran, Seyed Mohamad Razi Moosavi, Masoud Meghdadi, Ali Medi
IEEE TRANSACTIONS ON POWER ELECTRONICS, Vol.39, pp. 2169-2179, 2024

■ Study of second-harmonic self-injection impact on 1/f2 phase noise of CMOS parallel LC-tank oscillators
Dariush Naseh, Masoud Meghdadi, Amir Nikpaik

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.165, 2023

■ An ultra high slew rate recycling folded cascode OTA with 100-dB DC gain
Seyed Arash Katourani, Omid Hashemipour tafreshi, Masoud Meghdadi
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.147, 2022

■ A Current Re-Use Quadrature RF Receiver Front-End for Low Power Applications: Blixator Circuit
Mohammad Barzgari, Ali Ghafari, Masoud Meghdadi, Ali Medi
IEEE JOURNAL OF SOLID-STATE CIRCUITS, Vol.., pp. 1-13, 2022

■ A 10-W X-Band Class-F High-Power Amplifier in a 0.25-?m GaAs pHEMT Technology
Amirreza Alizadeh, Majid Yaghoobi, Masoud Meghdadi, Ali Medi, Sayfe Kiaei
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Vol.69, pp. 157-169, 2021

■ Stabilisation of multi-loop amplifiers using circuit-based two-port models stability analysis
Abbas Pasdar, Masoud Meghdadi, Ali Medi
IET Circuits Devices and Systems, Vol.15, pp. 553-559, 2021

■ A reconfigurable high ultimate rejection inductorless band-pass filter by the use of N-path passive mixers
Amin Hazrati marangaloo, Ali Jalali, Masoud Meghdadi
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, Vol.49, pp. 31-43, 2021

■ Vertical Noise Reduction in 3D Mixed-Signal Integrated Circuits with Graphene Nanoribbon and Carbon Nanotube Interconnects
Soheila Gharavi Hamedani, Mohammad Hossein Moaiyeri, Masoud Meghdadi,
IEEE Transactions on Components Packaging and Manufacturing Technology, Vol.11, pp. 302-311, 2021

■ A method for rejecting 3k-th harmonics in bandpass 6N-path filters
Amin Hazrati marangaloo, Ali Jalali, Masoud Meghdadi, Bardia Babaei
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, Vol.48, pp. 335-348, 2020

■ A reconfigurable highly-linear CMOS transceiver core chip for X-band phased arrays
Masoud Meghdadi, Hadi Lotfi, Ali Medi
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, Vol.114, 2020

■ Low-power inductorless current-reuse LNAs with active and passive Gm-enhancement
Javad Chaghaei, Ali Jalali, Masoud Meghdadi
MICROELECTRONICS JOURNAL, Vol.97, 2020

■ Design of a 2-12-GHz Bidirectional Distributed Amplifier in a 0.18-um CMOS Technology
Amirreza Alizadeh, Masoud Meghdadi, Majid Yaghoobi, Ali Medi
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Vol.67, pp. 754-764, 2019

■ A Highly-Linear Dual-Gain CMOS Low-Noise Amplifier for X-Band
Masoud Meghdadi, Milad Piri, Ali Medi
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS, Vol.99, pp. 1-5, 2017

■ Design of 6-18-GHz High-Power Amplifier in GaAs pHEMT Technology
Masoud Meghdadi, Ali Medi
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■ Minimum Power Miller-Compensated CMOS Operational Amplfiers
Masoud Meghdadi, Mehrdad Sharif Bakhtiar
Scientia Iranica, Vol.21, pp. 2243-2249, 2014

■ Two-Dimensional Multi-Parameter Adaptation of Noise Linearity and Power Consumption in Wireless Receivers
Masoud Meghdadi, Mehrdad Sharif Bakhtiar
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, Vol.61, pp. 2433-2443, 2014

■ Analysis and Optimization of SFDR in Differential Active-RC Filters
Masoud Meghdadi, Mehrdad Sharif Bakhtiar
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, Vol.59, pp. 1168-1177, 2012

■ A 6-Bit CMOS Phase Shifter for S-Band
Masoud Meghdadi, Mehrdad Azizi, Mehdi Kiani, Ali Medi, Mojtaba Atarodi
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Vol.12, pp. 3519-3526, 2010

Conference Papers

■ A Study on Applying Interleaved Switching Pattern on a Double-Input/Single-Output Zeta Converter
Mahdi Ghavaminejad, Seyed ebrahim Afjei, Masoud Meghdadi
2021 12th Power Electronics Drive Systems and Technologies Conference (pedstc 2021), pp.1-5

■ Double-Input/Single-Output Zeta Converter
Mahdi Ghavaminejad, Seyed ebrahim Afjei, Masoud Meghdadi
2021 12th Power Electronics Drive Systems and Technologies Conference (pedstc 2021), pp.5-10

■ An N×6M-Path Filter for Low-IF Applications: Review and Modification
Amin Hazrati marangaloo, Ali Jalali, Masoud Meghdadi
2020 Austrochip Workshop on Microelectronics, pp.85-89

■ A Wideband Inductorless LNA Employing Active Complementary Current-Reuse Balun
Javad Chaghaei, Ali Jalali, Masoud Meghdadi
27th Iranian Conference on Electrical Engineering ICEE2019

■ A UHF variable gain amplifier for direct-conversion DVB-H receivers
Masoud Meghdadi, Mehrdad Sharif Bakhtiar
IEEE RFIC, pp.551-554

■ Double_Input/Double_Output Buck_Zeta Converter
مهدی قوامی نژاد، سیدابراهیم افجه ای، مسعود مقدادی نیشابوری
بیست و نهمین کنفرانس مهندسی برق ایران، صفحات: ۱۱-۱۵

■ Stochastic Spintronic Neuron with Application to Image Binarization
عبداله امیرانی، محمدحسین معیری، مسعود مقدادی نیشابوری، کیان جعفری دینانی
بیست و ششمین کنفرانس بین المللی کامپیوتر، انجمن کامپیوتر ایران، صفحات: ۱-۵

■ um pHEMT GaAsبا بازدهی بالا در تکنولوژی ۰.۲۵ X باند F پیادهسازی تقویتکننده توان کلاس
سمیرا عبازاه چوندرق، مسعود مقدادی نیشابوری، علی مدی
دومین کنفرانس میکروالکترونیک ایران، نسخه ۲، صفحات: ۱-۵

M.Sc. Theses

■ Design and simulation of a hybrid multi-stage delta-sigma modulator for radio transmitters
Hadi Mirzaee
2021

■ Phase Noise Reduction in LC Oscillator Using Second-Harmonic Self-Injection
Dariush Naseh Gharehshiran
2021

■ Design of BJT and MOSFT-Based Temperature Sensors in CMOS Technology Without Trimming and Calibration
Milad Madadi avargani
2020

■ Design of a wideband low noise amplifier

Ahmad Khosravani
2020

■ design of an oscillator with robustness against PVT variations
Mahnaz Moghaddam
2020

■
Shadan Rahmani irani
2019