

Prof. ALİ TANGEL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-7863-2018

Yoksis Researcher ID: 202531

Education Information

Doctorate, Pennsylvania State University University College Park Campus, United States Of America 1994 - 1999

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Yıl) (Tezli), Turkey 1989 - 1991

Undergraduate, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1982 - 1986

Foreign Languages

English, C1 Advanced

Research Areas

Electrical and Electronics Engineering, Electronic, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Electronic Circuits, MEMS, Semiconducting Materials and Devices, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2017 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2011 - 2017

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 1999 - 2011

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 1993 - 1999

Research Assistant, Gazi University, Mühendislik-Mimarlık Fakültesi, 1987 - 1993

Academic and Administrative Experience

Head of Department, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2018 - 2023

Courses

High Speed Semiconductor Devices, Doctorate, 2020 - 2021

Semiconductor Fabrication Technology, Postgraduate, 2019 - 2020

Elektronik-1 (İngilizce), Undergraduate, 2018 - 2019

İleri VLSI Tasarım, Postgraduate, 2018 - 2019

Elektronik-2 (İngilizce), Undergraduate, 2017 - 2018

Programlanabilir Tümleşik Devreler, Undergraduate, 2018 - 2019

Analog Tümleşik Devreler, Postgraduate, 2018 - 2019

VLSI Tasarım , Undergraduate, 2018 - 2019

Advising Theses

Tangel A., 4 kanal hüzme şekillendirici devre için modül VLSI tasarımlı, Postgraduate, A.URGUN(Student), 2023

Tangel A., A monolithic controller design for a dual-mode DC-DC buck converter, Postgraduate, O.BOUTALEB(Student), 2023

Tangel A., Si-ge hbt bicmos teknolojisinde 6 bit 2 kanallı ayrik zamanlı adc tasarımlı, Postgraduate, V.ABBASOVA(Student), 2023

Tangel A., 6 serbestlik dereceli endüstriyel robotlar için sürü zekâlı algoritmalar dayalı optimal yörünge planlaması ve kontrolü, Doctorate, H.KARCI(Student), 2023

Tangel A., Silisyum tek foton çığ fotodedektör (SPAD) tasarım ve benzetimi, Postgraduate, E.SARI(Student), 2023

Tangel A., Aradeğerlemeli TIQ tekniği ile 7 bit flash ADC tasarımlı, Postgraduate, A.ARAN(Student), 2022

Tangel A., SiGe teknolojisinde pin diyot tasarım ve analizi, Postgraduate, A.KARTAL(Student), 2022

Tangel A., TIQ tabanlı 6 bit 2 kanallı ayrik zamanlı ADC tasarımlı, Postgraduate, L.BÜŞRA(Student), 2022

Tangel A., X-band FR PIN diyot tasarım ve benzetimleri, Postgraduate, S.ÇEB(Student), 2022

Tangel A., Mekanik güç aktarma organları test düzeneği için enerji kazanımlı bir kontrol sistemi tasarımı, Postgraduate, O.GEZER(Student), 2022

Tangel A., 5g teknolojisi için düşük gürültülü yükselteç tasarımlı, Postgraduate, S.SULEYMANOVA(Student), 2021

Tangel A., RISC-V tabanlı aes hızlandırılmış kirmik üstü sistemin fizikal tasarım, Postgraduate, E.GAYİR(Student), 2021

Tangel A., Edge sensitive lossless compression of hyperspectral image, Postgraduate, H.K.H.(Student), 2021

Tangel A., RSA algoritma gerçeklemeleri için güç tüketimi saldırısı yöntemleri, Doctorate, E.AKALP(Student), 2021

Tangel A., HİPERSPEKTRAL VERİLER İÇİN KAYNAŞTIRMA İLE UZAMSAL ÇÖZÜNÜRLÜK ARTIRIMI, Doctorate, S.KAHRAMAN(Student), 2019

Tangel A., Medikal görüntüleme cihazlarında kullanılan TDC mimarisinin VLSI gerçeklenmesi, Postgraduate, M.AKİF(Student), 2019

Tangel A., 250 NM CMOS TEKNOLOJİSİ İLE SRAM BİRİM HÜCRE OPTİMİZASYONU VE 2 Kb SRAM TASARIMI, Postgraduate, H.KAYDIRMA(Student), 2019

Tangel A., Implementation of 8x8 luma intra prediction module for H.264/AVC standard, Postgraduate, B.ANTOINETTE(Student), 2019

Tangel A., FPGA tabanlı 5 eksenli mobil robot tasarımlı ve gerçeklenmesi, Postgraduate, H.KARCI(Student), 2013

Tangel A., FPGA tabanlı çok fonksiyonlu ultrasonik temizleme makinesi tasarımlı ve prototip üretimi, Postgraduate, U.GÜVENÇ(Student), 2011

Tangel A., Katlamalı ve aradeğerlemeli analog sayısal dönüştürücülerin vlsı tasarımlında eşik evirmeli nicemleyici teknığının kullanımı ve performansı, Doctorate, O.AYTAR(Student), 2009

Tangel A., 16-bitlik mikroişlemcinin FPGA mimarileri kullanılarak gerçekleştirilmiş, Postgraduate, E.ALAAER(Student), 2006

Tangel A., 10 bit iki adımlı analog sayısal dönüştürücünün VLSI tasarımlı ve benzetimi, Postgraduate, A.ÇELEBİ(Student), 2005

Tangel A., RF ID teknolojisi, Postgraduate, İ.KİRAZ(Student), 2005

Tangel A., TIQ temelli 8-bit iki aşamalı ADC tasarımlı, simülasyonu ve serim şeması, Postgraduate, O.AYTAR(Student), 2003

Tangel A., TIQ tabanlı 8 bit folding A/D dönüştürücü tasarımlı ve simülasyonu, Postgraduate, M.FATİH(Student), 2003

Tangel A., Visual basic programının endüstriyel otomasyonda kullanımı (aklılı ev), Postgraduate, Ş.YILMAZ(Student),

Education Infrastructure Information

Tangel A., Mikroelektronik (VLSI) Araştırma Laboratuvarı, May 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Optimal trajectory generation in joint space for 6R industrial serial robots using cuckoo search algorithm
KARAHAN O., Karci H., TANGEL A.
INTELLIGENT SERVICE ROBOTICS, vol.15, no.5, pp.627-648, 2022 (SCI-Expanded)
- II. A TIQ based 6-bit 8 Gs/s time interleaved ADC design
TANGEL A., YÜREKLİ L. B., AYTAR O.
ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, vol.113, no.2, pp.211-221, 2022 (SCI-Expanded)
- III. Frequency Domain Horizontal Cross Correlation Analysis of RSA
Akalp Kuzu E., TANGEL A., Örs Yalçın S. B.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.22, no.2, pp.3-10, 2022 (SCI-Expanded)
- IV. Using Programmable Josephson Voltage Standard for Static and Dynamic Gain Characterization of Integrating ADC
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
IEEE Transactions On Instrumentation And Measurement, vol.69, no.7, pp.4425-4435, 2020 (SCI-Expanded)
- V. A 10 GS/s time-interleaved ADC in 0.25 micrometer CMOS technology
Aytar O., TANGEL A., AFACAN E.
JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS, vol.68, no.6, pp.415-424, 2017 (SCI-Expanded)
- VI. Correlation template matching CPA method
Kuzu E. A., Tangel A.
ELECTRONICS LETTERS, vol.52, pp.1306-1307, 2016 (SCI-Expanded)
- VII. FPGA Tabanlı 5 Eksenli Mobil Robot Kolu Tasarımı ve Prototip gerçekleştirilmesi
KARCI H., TANGEL A.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.31, pp.295-302, 2016 (SCI-Expanded)
- VIII. DESIGN AND PROTOTYPE IMPLEMENTATION OF A 5-DOF MOBILE ROBOT ARM BASED ON FPGA
Karci H., TANGEL A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.2, pp.295-302, 2016 (SCI-Expanded)
- IX. A 5 Bit 5Gs s flash ADC using multiplexer based decoder
Aytar O., Tangel A., Şahin K.
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.2013, pp.1972-1982, 2013 (SCI-Expanded)
- X. FPGA Based Implementation and Comparison of Beamformers for CDMA2000
Dikmese S., Kavak A., Küçük K., Şahin S., Tangel A.
WIRELESS PERSONAL COMMUNICATIONS, vol.57, pp.233-253, 2011 (SCI-Expanded)
- XI. Employing threshold inverter quantization (TIQ) technique in designing 9-Bit folding and interpolation CMOS analog-to-digital converters (ADC)
Aytar O., Tangel A.
SCIENTIFIC RESEARCH AND ESSAYS, vol.6, pp.351-362, 2011 (SCI-Expanded)
- XII. Digital signal processor against field programmable gate array implementations of space-code correlator beamformer for smart antennas

- Dikmese S., Kavak A., Küçük K., Şahin S., Tangel A., Dincer H.
 IET MICROWAVES ANTENNAS & PROPAGATION, vol.4, pp.593-599, 2010 (SCI-Expanded)
- XIII. **MOS mismatch effects on TIQ comparators**
 Tangel A., Aytar O.
 INTERNATIONAL JOURNAL OF ELECTRONICS, vol.96, pp.561-570, 2009 (SCI-Expanded)
- XIV. **"The CMOS inverter" as a comparator in ADC designs**
 Tangel A., Choi K.
 ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING, vol.39, pp.147-155, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of number and position of frames in speaker age estimation**
 Osman M. M., Büyük O., TANGEL A.
 Sigma Journal of Engineering and Natural Sciences, vol.41, no.2, pp.243-255, 2023 (ESCI)
- II. **Time-optimal trajectory generation in joint space for 6R industrial serial robots using Cuckoo search algorithm**
 Karahan O., Karci H., Tangel A.
 Global Journal of Computer Sciences: Theory and Research, vol.12, no.1, pp.42-54, 2022 (Peer-Reviewed Journal)
- III. **A High Voltage PIN Diode Design on SOI Substrate**
 Tangel A., Çalışkan A. U.
 Materials Today Proceedings, vol.18, no.2019, pp.1826-1835, 2019 (Peer-Reviewed Journal)
- IV. **Establishing Programmable Josephson Voltage Standard and Maintaining Its Quantum Accuracy**
 COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., GEDİK A., YOĞUN M., CELEP M.
 International Journal of Electrical and Electronic Engineering Telecommunications, 2019 (Scopus)
- V. **Shot Noise Measurment in PIN Photodiodes**
 DOĞAN M., TANGEL A.
 International Journal of Computing, Communication and Instrumentation Engineering (IJCCIE), vol.3, pp.297-300, 2016 (Peer-Reviewed Journal)
- VI. **An FPGA Based Multiple Output Ultrasonic Generator with Two Step Iterative Resonance Detection**
 GÜVENÇ U., TANGEL A., YAKUT M.
 International Journal of Electronics Communication and Computer Engineering, pp.1410-1421, 2012 (Peer-Reviewed Journal)
- VII. **A Microcontroller Based Generator Design for Ultrasonic Cleaning Machines**
 Yakut M., Tangel A., Tangel C.
 Istanbul University Journal of Electrical&Electronics Engineering, vol.9, no.1, pp.853-860, 2009 (Scopus)
- VIII. **MIB 16 FPGA Based Design and Implementation of a 16 Bit Microprocessor for Educational Use**
 Alaer E., Tangel A., Yakut M.
 WSEAS Transactions on Advances in Engineering Education, no.5, pp.326-330, 2008 (Peer-Reviewed Journal)
- IX. **Prototype Implementation of an RF ID Reader System**
 KİRAZ İ., TANGEL A., DOLMA A.
 Istanbul University Journal of Electrical&Electronics Engineering, vol.7, pp.287-292, 2007 (Peer-Reviewed Journal)
- X. **Future-ready ultrafast 8bit CMOS ADC for system-on-chip applications**
 Yoo J., Lee D., Choi K., Tangel A.
 Proceedings of the Annual IEEE International ASIC Conference and Exhibit, pp.455-459, 2001 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Data Converter Architectures And Example Designs In Active Phase Shifters**
 Türkoğulları M. D., Tangel A.

6. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS , İstanbul, Turkey, 7 - 08 October 2023, pp.418-428
- II. **AN ANALOG COMPARATOR ARRAY IMPLEMENTATION FOR HIGH RESOLUTION SEMI-FLASH ADC DESIGNS USING COMPLEMENTARY COMPARATORS APPROACH**
Özkan E., Tangel A.
ASIA PASIFIC 8th INTERNATIONAL MODERN SCIENCES CONGRESS September 11-12,2023 / Delhi, India, New Delhi, India, 11 - 12 September 2023, pp.255-266
- III. **CMOS DUAL-MODE DC-DC BUCK CONVERTER DESIGN**
BOUTALEB O., TANGEL A.
10. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, İstanbul, Turkey, 24 December 2022, pp.662-668
- IV. **A 4-Bit X-Band Passive Phase Shifter Design**
URGUN A., TANGEL A.
ICAT'22, Van, Turkey, 25 November 2022, vol.1
- V. **Design and Simulation of a Reach Through Structure Silicon SPAD**
SARI E., TANGEL A.
ICAT'22, Van, Turkey, 25 - 27 November 2022
- VI. **TIME OPTIMAL TRAJECTORY GENERATION IN JOINT SPACE FOR 6R INDUSTRIAL SERIAL ROBOTS USING CUCKOO SEARCH ALGORITHM**
KARAHAN O., KARCI H., TANGEL A.
6th International Conference on Computational Mathematics and Engineering Sciences, Ordu, Turkey, 20 May 2022
- VII. **Design and Simulation of X-Band RF PIN Diode**
ÇEB S., TANGEL A.
ISSRIS'22, Balikesir, Turkey, 2 - 05 March 2022
- VIII. **A Ku Band SiGe Pin Diyot Design**
KARTAL A., TANGEL A.
ISSRS'22, Balikesir, Turkey, 2 - 05 March 2022
- IX. **ARADEĞERLEMELİ TIQ YÖNTEMİ İLE 6-BİT FLASH ADC YONGASI TASARIMI**
ARAN A., TANGEL A.
8. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 05 December 2021
- X. **A TIQ Based 6-Bit Two-Channel Time Interleaved ADC Design**
YÜREKLİ L. B., TANGEL A.
ELECO 2021, Bursa, Turkey, 25 November 2021
- XI. **A 6-Bit Two-Channel TI ADC in Si-Ge HBT BICMOS Technology**
ABBASOVA V., TANGEL A.
ICENTE 2021, Konya, Turkey, 18 - 20 November 2021
- XII. **DATA ACQUISITION AND VISUALIZATION FROM INDUSTRIAL CONTROL FIELD IN PARDUS OPERATING SYSTEM**
TANGEL A.
4. INTERNATIONAL 19 MAY INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Kocaeli, Turkey, 21 December 2020, pp.241-253
- XIII. **International Marmara Sciences Congress IMASCON 2020 - Autumn**
GAYİR E., İŞIK G., ERDEM İ., TANGEL A.
International Marmara Sciences Congress (Imascon 2020 – Autumn), Kocaeli, Turkey, 04 December 2020, pp.263-266
- XIV. **Measurement of Arbitrary Waveforms at Low Frequencies**
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
Conference on Precision Electromagnetic Measurements (CPEM), Colorado, United States Of America, 24 August 2020
- XV. **KARARLILIĞI YÜKSEK YARI-İLETKEN DAC'IN KUANTUM VOLTMETRE İLE KALİBRASYONU**
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
Ölçümbilim Sempozyumu ve Sergisi, Turkey, 20 November - 22 December 2019

- XVI. **LiDAR-GUIDED REDUCTION OF SPECTRAL VARIABILITY IN HYPERSPECTRAL IMAGERY**
 Kahraman S., Bacher R., Tatsumi U., Chanussot J., Tangel A.
 2019 10th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS),
 Amsterdam, Netherlands, 24 - 26 September 2019
- XVII. **LiDAR DATA-AIDED HYPERGRAPH REGULARIZED MULTI-MODAL UNMIXING**
 Kahraman S., Xu Y., Chanussot J., Tangel A.
 IGARSS-2019, Yokohama, Japan, 28 July - 02 August 2019, pp.696-699
- XVIII. **VLSI IMPLEMENTATION OF TDC ARCHITECTURES USED IN PET IMAGING SYSTEMS**
 Özdemir M. A., Tangel A.
 International Marmara Science and Social Sciences Congress (IMASCON 2019 SPRING), Kocaeli, Turkey, 26 - 28
 April 2019
- XIX. **130nm CMOS Teknolojide 2 Kanallı Zaman ayırmalı ADC tasarımları**
 YÜREKLİ L. B., AKDERE E. C., TANGEL A.
 ELECO-2018, Turkey, 30 November - 01 December 2018, pp.242-248
- XX. **250nm CMOS 6 Transistörlü Statik Rastgele Erişimli Bellek Hücresi için Serim Alanı Optimizasyonu**
 KAYDIRMA H., TANGEL A.
 ELECO-2018, Turkey, 30 November - 01 December 2018, pp.129-133
- XXI. **Towards Wideband Voltage Scaling to Quantum Standards at the Accuracy of the Stability**
 COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A., CELEP M.
 Conference on Precision Electromagnetic Measurements (CPEM 2018), 8 - 13 July 2018
- XXII. **Design of Low Power 6-Bit DACs using 180nm CMOS Technology**
 TAŞTEKİN S., HELVACI M., TANGEL A.
 ICENS-2018, Kiev, Ukraine, 12 - 16 June 2018
- XXIII. **Implementation of different architectures of forward 4×4 integer DCT for H.264/AVC encoder**
 Ringnyu B. A., TANGEL A., Karabulut E.
 10th International Conference on Electrical and Electronics Engineering, ELECO 2017, Bursa, Turkey, 29 November
 - 02 December 2017, pp.423-427
- XXIV. **Metrological Measurements Using Programmable Josephson Voltage Standard**
 ÖZTÜRK T. C., ERTÜRK S., TANGEL A., ARIFOVIĆ M., TURHAN S.
 ELECO-2017, 30 November - 02 December 2017
- XXV. **Implementation of Different Architectures of Forward 4x4 Integer DCT for H.264/AVC Encoder**
 RİNGNYU B. A., TANGEL A., KARABULUT E.
 ELECO-2017, 30 November - 02 December 2017
- XXVI. **IMPLEMENTATION OF FORWARD 8x8 INTEGER DCT FOR H.264/AVC FRext**
 RİNGNYU B. A., TANGEL A.
 ICONTES-2017, Antalya, Turkey, 26 - 29 October 2017
- XXVII. **A High Voltage PIN Diode Design on SOI Substrate**
 TANGEL A., ÇALIŞKAN A. U.
 INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES, 17 - 19 August 2017
- XXVIII. **Design and Implementation of a Communication Protocol for Mobile Device Controlled Smart Home Management System**
 MENTEŞOĞLU m., KAVAK A., YAKUT M., TANGEL A., ŞAHİN S., ÖZCAN H.
 SIU2015, Turkey, 16 - 19 May 2015
- XXIX. **A High Speed Low Power CMOS Current Comparator**
 AFACAN E., TANGEL A., AYTAR O.
 IEEJ, 17 July 2008 - 21 March 2014
- XXX. **A new Style CPA attack on theML Implementation of RSA**
 Akalp Kuzu E., Tangel A.
 ICSEC2014, Khon Kaen, Thailand, 30 July - 01 August 2014, pp.323-328
- XXXI. **New cross correlation attack methods on the Montgomery Ladder implementation of RSA**
 Akalp Kuzu E., Soysal B., Şahinoğlu M., Güvenç U., Tangel A.

- 2013 3rd IEEE International Advance Computing Conference, IACC 2013, Ghaziabad, India, 22 - 23 February 2013, pp.138-142
- XXXII. **All BitsCross Correlation Attack on the Montgomery Ladder Implementation of RSA**
 Akalp Kuzu E., Tangel A.
 DSP2013, Athens, Greece, 1 - 03 July 2013, pp.183-187
- XXXIII. **A high performance PIN diode design in 0.25 mu m SiGe HBT process**
 Cesur E., TANGEL A.
 8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.398-403
- XXXIV. **A high performance PIN diode design in 0.25um SiGe HBT process**
 Cesur E., TANGEL A.
 8th International Conference on Electrical and Electronics Engineering, ELECO 2013, Bursa, Turkey, 28 - 30 November 2013, pp.398-403
- XXXV. **An FPGA based multiple output PWM pulse generator for ultrasonic cleaning machines**
 Tangel A., Yakut M., Afacan E., Güvenç U.
 Applied Electronics, Plzen, Czech Republic, 8 - 09 September 2010
- XXXVI. **COMPARISON OF SPACE CODE CORRELATOR BEAMFORMER USING DSP AND FPGA IMPLEMENTATIONS**
 Dikmeşe Ş., KAVAK A., KÜÇÜK K., ŞAHİN S., TANGEL A., DİNÇER H.
 Mosharaka International Conference on Communications, Propagation and Electronic (MIC-CPE), 6 - 08 January 2009, pp.1-6
- XXXVII. **A 9-BIT 1GS/S CMOS folding ADC implementation using TIQ based flash ADC cores**
 Aytar O., TANGEL A., Dundar G.
 15th International Conference on Mixed Design of Integrated Circuits and Systems, MIXDES 2008, Poznan, Poland, 19 - 21 June 2008, pp.159-164
- XXXVIII. **FPGA Implementation of FFT Algorithms Using Floating Point Numbers**
 Kaptan H., Tangel A., Şahin S.
 ELECO 2007, Bursa, Turkey, 5 - 09 December 2007
- XXXIX. **YÜKSEK HIZLI CMOS AKIM KARŞILAŞTIRICI**
 AFACAN E., AYTAR O., TANGEL A.
 12.EEBB, Turkey, 13 - 17 November 2007
- XL. **An auto calibrator for TIQ based flash ADC designs**
 TANGEL A., Yakut M., Ayar M.
 6th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing (CSECS 07), Cairo, Egypt, 29 - 31 December 2007, pp.47-51
- XLI. **"MIB-16" FPGA based design and implementation of a 16-bit microprocessor for educational use**
 ALAER E., TANGEL A., YAKUT M.
 6th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing (CSECS 07), Cairo, Egypt, 29 - 31 December 2007, pp.284-288
- XLII. **A 10 bit500Ms s Two Step Flash ADC**
 ÇELEBİ A., AYTAR O., TANGEL A.
 IEEE Int. Conf. on Computer as a tool, Belgrade, Serbia And Montenegro, 21 - 24 November 2005, pp.898-901
- XLIII. **An 8 Bit CMOS Folding ADC Implementation Using TIQ Based Flash ADC Core**
 TEKİN M. F., TANGEL A., AYTAR O., ÇELEBİ A.
 12th International Mixed Design of Integrated Circuits and Systems Conference (MIXDES 2005), Krakow, Poland, 22 - 25 May 2005, vol.1, pp.43-45
- XLIV. **TIQ Tabanlı 8 bit Folding A D Dönüşürücü Tasarımı**
 TEKİN M. F., TANGEL A., AYTAR O., ÇELEBİ A.
 ELECO 2004 Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 December 2004, vol.1, pp.118-122
- XLV. **8-bit 1Gs/s Semi-Flash ADC Based on Threshold Inverter Quantization Technique**

- Aytar O., Çelebi A., Tangel A., Tekin F.
 MIXDES-2004, Warszawa, Poland, 5 - 07 January 2004
- XLVI. A VLSI Implementation for Fast All Boolean Motion Estimation Based on Pre Coded Imag Planes Matching**
 Çelebi A., Ertürk S., Tangel A.
 3rd International Conference on Electrical and Electronics Engineering (ELECO'2003), Bursa, Turkey, 3 - 07 December 2003, vol.1, pp.36-40
- XLVII. The CMOS Inverter as a comparator in ADC designs**
 Tangel A., Choi K.
 ELECO 2001, Bursa, Turkey, 7 - 11 November 2001
- XLVIII. Future Ready Ultrafast 8 bit CMOS ADC for System on Chip Applications**
 YOO J., LEE D., CHOI K., TANGEL A.
 ASIC/SOC Conference, 12 - 15 September 2001
- XLIX. A 1-GSPS CMOS flash A/D converter for system-on-chip applications**
 Yoo J., Choi K., Tangel A.
 IEEE Computer-Society Annual Workshop on VLSI, Florida, United States Of America, 19 - 20 April 2001, pp.135-139

Supported Projects

KARABAY H., KARABAŞ M. O., ÖZTÜRK İ. T., TANGEL A., YILDIRIM S. T., BEŞER E., ZEREN S., TUNÇBİLEK E., Project Supported by Higher Education Institutions, Lisans ve Lisansüstü Öğretim Faaliyetleri ile AraştırmaGeliştirme Çalışmalarının Mühendislik Modelleme ve Analiz Yazılımı ile Desteklenmesi, 2023 - 2024

TANGEL A., AYTAR O., YÜREKLİ L. B., Project Supported by Higher Education Institutions, CMOS Teknolojide Ayrık Zamanlı 6-bit ADC VLSI Tasarımı, 2020 - 2023

TANGEL A., Project Supported by Higher Education Institutions, Mikroelektronik (VLSI) Araştırma Laboratuvarı (KULVAR), 2019 - 2020

Tangel A., TUBITAK Project, Design and prototype implementation of FPGA Based multi functional ultrasonic cleaning machine , 2010 - 2011

Tangel A., Aytar O., Project Supported by Higher Education Institutions, TIQ teknığının boru tipi ve katlamalı ve aradeğerlemeli analog sayısal dönüştürücülerin VLSI tasarımında kullanılarak performans artırımının sağlanması, 2007 - 2010

Tangel A., Yakut M., Industrial Thesis Project, Prototype design and manufacture of microcontroller based, multi-frequency ultrasonic cleaning machine, 2007 - 2009

Tangel A., Aytar O., Çelebi A., TUBITAK Project, VLSI Design of High Speed Analog to Digital Converters , 2006 - 2007

Tangel A., Project Supported by Higher Education Institutions, Yüksek Hızlı Analog Sayısal Dönüştürücülerin VLSI tasarımı ve imalat sonrası testlerinin yapılması, 2003 - 2005

Tangel A., Aytar O., Çelebi A., TUBITAK Project, VLSI Design and Fabrication of High Speed Analog to Digital Converters, 2002 - 2005

Memberships / Tasks in Scientific Organizations

TÜBİTAK-TEYDEB, Member of Advisory Board, 2015 - 2017

Scientific Consultations

TÜBİTAK-UEKAE YİTAL LAB, Project Consultancy, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, Turkey, 2021 - Continues

Metrics

Publication: 74

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H-Index (Scopus): 9

Non Academic Experience

TÜBİTAK-BİLGEM YİTAL

TUBITAK, BİLGEM, YİTAL

MİLETŞ Müh. San. Tic. Ltd. Şti.

TUBITAK, TÜBİTAK-TEYDEB, TÜBİTAK-TEYDEB ELOTEG

TUBITAK, BİLGEM, YİTAL

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