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Personal Information

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Education Information

Doctorate, University Of Colorado At Boulder, Mühendislik Fakültesi, Elektronik Ve Bilgisayar Müh, United States Of America 1991 - 1995

Masters (Non-Thesis), University Of Colorado At Boulder, Mühendislik Fakültesi, Elektronik Ve Bilgisayar Müh, United States Of America 1989 - 1991

Undergraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Müh., Turkey 1984 - 1988

Research Areas

Electrical and Electronics Engineering, Electronic, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Electronic Circuits, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Elektrik Ve Elektronik Bölümü, 2017 - Continues

Associate Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2008 - 2012

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1998 - 2008

Research Assistant, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1989 - 1998

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, 2016 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2010 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Improving pedestrian safety using combined HOG and Haar partial detection in mobile systems**
Mihcioglu M. E. , ALKAR A. Z.
TRAFFIC INJURY PREVENTION, vol.20, no.6, pp.619-623, 2019 (Journal Indexed in SCI)
- II. **Enhancing the Accuracy for the Open-loop Resolver to Digital Converters**
Karabeyli F. A. , ALKAR A. Z.
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.13, no.1, pp.192-200, 2018 (Journal Indexed in SCI)
- III. **Sensors in Assisted Living A survey of signal and image processing methods**
Erden F., Velipasalar S., ALKAR A. Z. , ÇETİN A.

- IEEE SIGNAL PROCESSING MAGAZINE, vol.33, no.2, pp.36-44, 2016 (Journal Indexed in SCI)
- IV. **Contact-free measurement of respiratory rate using infrared and vibration sensors**
Erden F., ALKAR A. Z. , Cetin A. E.
INFRARED PHYSICS & TECHNOLOGY, vol.73, pp.88-94, 2015 (Journal Indexed in SCI)
- V. **A robust system for counting people using an infrared sensor and a camera**
Erden F., ALKAR A. Z. , Cetin A. E.
INFRARED PHYSICS & TECHNOLOGY, vol.72, pp.127-134, 2015 (Journal Indexed in SCI)
- VI. **IP based home automation system**
ALKAR A. Z. , ROACH J., BAYSAL D.
IEEE Transactions on Consumer Electronics, vol.56, no.4, pp.2201-2207, 2010 (Journal Indexed in SCI)
- VII. **Highly accurate reduced iteration CORDIC processor algorithm**
AYTÖRE E., Alkar A. Z.
International Journal of Electronics, vol.97, no.2, pp.163-176, 2010 (Journal Indexed in SCI)
- VIII. **An internet-based interactive embedded data-acquisition system for real-time applications**
ALKAR A. Z. , KARACA M. A.
IEEE Transactions on Instrumentation and Measurement, vol.58, no.3, pp.522-529, 2009 (Journal Indexed in SCI)
- IX. **Efficient embedded neural-network-based license plate recognition system**
Caner H., GEÇİM H. S. , ALKAR A. Z.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.57, no.5, pp.2675-2683, 2008 (Journal Indexed in SCI)
- X. **A GSM, Internet and speech controlled wireless interactive home automation system**
Yuksekkaya B., KAYALAR A. A. , TOSUN M. B. , OZCAN M. K. , Alkar A. Z.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.52, no.3, pp.837-843, 2006 (Journal Indexed in SCI)
- XI. **An internet based wireless home automation system for multifunctional devices**
Alkar A. Z. , Buhur U.
IEEE Transactions on Consumer Electronics, vol.51, no.4, pp.1169-1173, 2005 (Journal Indexed in SCI)
- XII. **A hardware version of the RSA using the Montgomery's algorithm with systolic arrays**
Alkar A. Z. , SONMEZ R.
INTEGRATION-THE VLSI JOURNAL, vol.38, no.2, pp.299-307, 2004 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Indoor Localization and Tracking by Multi Sensor Fusion in Kalman Filter**
Kaya S. B. , ALKAR A. Z.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- II. **BACKGROUND MODELLING FOR PAN TILT CAMERA**
Yildirim A., ALKAR A. Z. , Ince K. G.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1191-1194
- III. **Real Time Object Recognition Using SIFT Algorithm on FPGA**
Güven S., ALKAR A. Z.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1503-1506
- IV. **LOCATION ESTIMATION IMPROVEMENT BY SIGNAL ADAPTIVE RSSI FILTERING**
Kaya S. B. , ALKAR A. Z.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1183-1186
- V. **REAL-TIME WILDFIRE SMOKE DETECTION ON MOVING CAMERA**
Arslan I., ALKAR A. Z.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1203-1206

- VI. **Analysis on the Column Sum Boundaries of Decimal Array Multipliers**
Bozdas K., ALKAR A. Z.
55th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS), Idaho, United States Of America, 5 - 08 August 2012, pp.318-321
- VII. **INTERNET CONTENT SEARCH USING FPGA'S**
Aydin I., ALKAR A. Z.
16th International conference on Information and Software Technologies (IT 2010), Kaunas, Lithuania, 21 - 23 April 2010, pp.196-198
- VIII. **Web based automated total electron content computation**
Ugurlu O., SEZEN U., ALKAR A. Z.
3rd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 14 - 16 June 2007, pp.35-36

Supported Projects

ALKAR A. Z. , Project Supported by Higher Education Institutions, 2017 International Conference on Field Programmable Technology, 2017 - 2018
ALKAR A. Z. , Industrial Thesis Project, Sıradışı Durum Algılamaya Yönelik Akıllı IP Kamera Sistemi, 2009 - 2015

Citations

Total Citations (WOS):312
h-index (WOS):7