

Assoc. Prof. Sıddıka Berna Örs Yalçın

Personal Information

Fax Phone: [+90 212 285 3565](tel:+902122853565)

Email: orssi@itu.edu.tr

Web: <http://web.itu.edu.tr/~orssi/>

Address: İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Maslak, İstanbul

Education Information

Doctorate, Katholieke Universiteit Leuven, Uygulamalı Bilimler, Belgium 1999 - 2005

Post Graduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1995 - 1998

Under Graduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Mühendisliği Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1991 - 1995

Foreign Languages

English

Dissertations

Doctorate, HARDWARE DESIGN OF ELLIPTIC CURVE CRYPTOSYSTEMS AND SIDE-CHANNEL ATTACKS, Katholieke Universiteit Leuven, Faculteit Toegepaste Wetenschappen, Departement Elektrotechniek, 2005

Post Graduate, Design of Multiplier Blocks for DSP Applications Using VHDL, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1995

Research Areas

Technical Sciences, Computer Sciences, Information Security and Reliability, Equipment, Electrical and Electronics Engineering, Electronic, Electronic Circuits

Academic Titles / Tasks

Associate Professor, Bahçeşehir Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2017 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2011 - Continues

Associate Professor, Yeditepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2012 - 2015

Assistant Professor, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2005 - 2011

Lecturer PhD, University Of California, San Diego, Computer Science And Engineering, 2009 - 2009

Research Assistant, Katholieke Universiteit Leuven, Engineering, Electrical Engineering, 1999 - 2005

Research Assistant, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1995 - 2005

Professional Experience

Courses

VLSI Circuit Design II, Under Graduate, 2015 - 2016, 2016 - 2017
Cryptography, Post Graduate, 2015 - 2016, 2016 - 2017
Circuit and System Analysis, Under Graduate, 2017 - 2018
Devre ve Sistem Analizi, Under Graduate, 2015 - 2016, 2016 - 2017
Low Power Electronic System Design, Doctorate, 2017 - 2018
Sayısal Sistemler Laboratuvarı, Under Graduate, 2015 - 2016, 2016 - 2017
Sayısal Sistem Tasarımı Uygulamaları, Under Graduate, 2017 - 2018
Cryptography, Post Graduate, 2015 - 2016

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

- **New lightweight mitigation techniques for RPL version number attacks**
Ariş A., Yalcin S. B. , Oktuğ S. F.
AD HOC NETWORKS, vol.85, pp.81-91, 2019 (Journal Indexed in SCI)
- **Customizable embedded processor array for multimedia applications**
Tükel M., Yurdakul A., Ors B.
INTEGRATION-THE VLSI JOURNAL, vol.60, pp.213-223, 2018 (Journal Indexed in SCI)
- **Analyzing and comparing the AES architectures for their power consumption**
DOGAN A., Ors S. B. , Saldamli G.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.25, pp.263-271, 2014 (Journal Indexed in SCI)
- **Privacy-Friendly Authentication in RFID Systems: On Sublinear Protocols Based on Symmetric-Key Cryptography**
AVOINE G., BINGOL M. A. , CARPENT X., Yalcin S. B.
IEEE TRANSACTIONS ON MOBILE COMPUTING, vol.12, pp.2037-2049, 2013 (Journal Indexed in SCI)
- **Reliability and security of arbiter-based physical unclonable function circuits**
TARIGULIYEV Z., Ors B.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.26, pp.757-769, 2013 (Journal Indexed in SCI)
- **Differential power analysis resistant hardware implementation of the RSA cryptosystem**
BAYAM K. A. , Ors B.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, pp.129-140, 2010 (Journal Indexed in SCI)
- **Differential power and electromagnetic attacks on a FPGA implementation of elliptic curve cryptosystems**
DE MULDER E., Oers S. B. , Preneel B., VERBAUWHEDE I.
COMPUTERS & ELECTRICAL ENGINEERING, vol.33, pp.367-382, 2007 (Journal Indexed in SCI)
- **Power analysis attacks against FPGA implementations of the DES**
STANDAERT F., Ors S. B. , QUISQUATER J., PRENEEL B.
FIELD-PROGRAMMABLE LOGIC AND APPLICATIONS, PROCEEDINGS, vol.3203, pp.84-94, 2004 (Journal Indexed in SCI)
- **An FPGA implementation of a Montgomery multiplier over $GF(2^M)$**
MENTENS N., Ors S. B. , PRENEEL B., VANDEWALLE J.
COMPUTING AND INFORMATICS, vol.23, pp.487-499, 2004 (Journal Indexed in SCI)
- **Power analysis of an FPGA - Implementation of Rijndael: Is pipelining a DPA countermeasure?**
STANDAERT F., Ors S. B. , PRENEEL B.
CRYPTOGRAPHIC HARDWARE AND EMBEDDED SYSTEMS - CHES 2004, PROCEEDINGS, vol.3156, pp.30-44, 2004

(Journal Indexed in SCI)

● **Hardware architectures for public key cryptography**

BATINA L., Ors S. B. , Preneel B., VANDEWALLE J.

INTEGRATION-THE VLSI JOURNAL, vol.34, pp.1-64, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

● **Hardware implementation of an elliptic curve processor over GF(p) with Montgomery modular multiplier**

Örs B., BATINA L., PRENEEL B., VANDEWALLE J.

International Journal of Embedded Systems, vol.3, pp.229-240, 2008 (Refereed Journals of Other Institutions)

● **Side channel attacks and fault attacks on cryptographic algorithms**

LEJLA B., PETER B., ELKE D. M. , NELE M., BART P., VANDENBOSCH G., INGRİD V., ÖRS YALÇIN S. B.

Revue HFTijdschrift, vol.4, pp.36-45, 2004 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

● **System on Chip Design with Vivado High-Level Synthesis Tool**

Bilgili B., Yamaneren C., Vatansever K., Çoltu U., ÖRS YALÇIN S. B.

11th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, 28 - 30 November 2019

● **Low Energy Consuming SoC Design for IoT Applications**

Demirtürk M. O. , Örs Yalçın S. B.

11th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 28 - 30

November 2019, pp.479-483

● **Energy Efficient Sensor Design and Implementation on FPGA by Using Open Source Processors**

Demirtürk M., Akçay L., Örs Yalçın S. B.

SİU 2019, Sivas, Turkey, 24 - 26 April 2019, pp.1-4

● **Average Power Consumption Estimation and Momentary Power Consumption Profile Generation of a Softcore Processor**

Kula Y. F. , Örs Yalçın S. B.

7th International Conference on Digital Information Processing and Communications (ICDIPC), Trabzon, Turkey, 2 - 04 May 2019, pp.41-46

● **Model based node design methodology for secure IoT applications [Güvenli IoT uygulamaları için model tabanlı düğüm tasarımı yöntemi]**

Özkaya Ö., ÖRS YALÇIN S. B.

26th IEEE Signal Processing and Communications Applications Conference, SIU, 19 - 21 May 2018, pp.1-4

● **Electromagnetic radiation analysis of implementation of RSA algorithm on a Raspberry Pi [RSA Algoritmasının Raspberry Pi Üzerinde Gerçeklemesine Elektromanyetik Yayınım Analizi]**

hatun e., büyükkaya e., ÖRS YALÇIN S. B.

26th IEEE Signal Processing and Communications Applications Conference, SIU, 19 - 21 May 2018, pp.1-4

● **Güvenli IoT Uygulamaları için Model Tabanlı Düğüm Tasarımı Yöntemi**

Özkaya Ö., Örs Yalçın S. B.

Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018, pp.1

● **RSA Algoritmasının Raspberry Pi Üzerinde Gerçeklemesine Elektromanyetik Yayınım Analizi**

Hatun E., Örs Yalçın S. B.

Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018, pp.1

● **Karatsuba Ofman Multiplication Implementation on SystemC for Diffie-Hellman Key Exchange Algorithm**

AYGÜN S., KOUHALVANDI L., ÖRS YALÇIN S. B. , GÜNEŞ E. O.

4th International Conference on Knowledge-Based Engineering and Innovation (KBEI-2017), Tehran, Iran, 22 December 2017, pp.1-4

● **Hardware/Software Co-Design of a Lightweight Crypto Algorithm BORON on an FPGA**

Acar B., Ors B.

10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1272-1276

● **A Novel Template-based Multimedia Processor Array and Its Toolset**

Tukel M., YURDAKUL A., Ors B.

10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.437-441

● **Design and Implementation of an OpenRISC System-on-Chip with an Encryption Peripheral**

Akçay L., Tukel M., Ors B.

European Conference on Circuit Theory and Design (ECCTD), Catania, Italy, 4 - 06 September 2017

● **Backhaul Infrastructures in Building Automation Systems Wired or Wireless**

Selahattin G., KARABULUT KURT G. Z. , ÖRS YALÇIN S. B.

3rd IEEE IDAACS Symposium on WirelessSystems (IEEE IDAACS-SWS2016), 26 - 27 September 2017

● **The Walsh-Hadamard Transform Based Automated Grading System For Monitoring of Heart Murmurs**

ARSLAN A., Bagbaba A. Ç. , SEN B., Ors B.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.481-485

● **Design of an Emergency Building Evacuation System**

Gokceli S., Zhmurov N., Karabulut Kurt G. Z. , Yalcin B. O.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.178-182

● **Reliability analysis of MIPS-32 microprocessor register files designed with different fault tolerant techniques Farkli Hata Bagisiklilik Yöntemleri ile Tasarlanan MIPS-32 Mikroislemcisindeki Kaydedici Dosyasinin Güvenilirlik Analizleri**

Ustaoglu B., Yalcin B. O.

24th Signal Processing and Communication Application Conference, SIU 2016, Zonguldak, Turkey, 16 - 19 May 2016, pp.2073-2076

● **Implementation of Enigma Machine Using Verilog on an FPGA**

Engin D., Ors B.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.945-948

● **Data Hiding Method Using Image Interpolation And Pixel Symmetry**

Esen U., Ors B.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.776-779

● **A Layered UVM Based Testbench Design for SpaceWire**

Bagbaba A. Ç. , Ustaoglu B., Erdem I., Ors B.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.1164-1168

● **Implementation of an Indoor Localization Algorithms on an FPGA**

Azbar O., Ors B., Kurt G. K.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.949-952

● **Hardware Implementation of Novel Image Compression-Encryption System on a FPGA**

Bagbaba A. Ç. , Ors B.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.1159-1163

● **Data transmission via GSM voice channel for end to end security**

OZKAN M. A. , Ors S. B.

5th IEEE International Conference on Consumer Electronics - Berlin, ICCE-Berlin 2015, Berlin, Germany, 6 - 09 September 2015, pp.378-382

● **Application specific processor design for DCT based applications DCT Tabanlı Uygulamalar İçin Uygulamaya Özel İşlemci Tasarımı**

Erozan A. T. , Aydođdu A. S. , Örs B.

2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.2157-2160

● **Implementation of a modem which transmits digital data on GSM voice channel GSM Ses Kanalından Sayısal Veri İleten Bir Modemin Gerçeklenmesi**

POSTALLI H. S. , TUNCAY S., Ors B.

2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.2537-2540

● **Hardware / software codesign and implementation for secure NFC applications NFC ile Güvenli Uygulamalar için Donanım / Yazılım Ortak Sistem Tasarımı ve Gerçeklenmesi**

BASKIR S. G. , Ors B.

2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.2392-2395

● **Creating Test Environment with UVM for SPI**

Ustaoglu B., Bagbaba A. C. , Ors B., Erdem I.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2373-2376

● **JPEG Image Encryption via TEA Algorithm**

Bagbaba A. Ç. , Ors B., KAYHAN O. S. , EROZAN A. T.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2090-2093

● **Design and Implementation of a Custom Verification Environment for Fault Injection and Analysis on an Embedded Microprocessor**

Ustaoglu B., Ors B.

3rd International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAECE), Beirut, Lebanon, 29 April - 01 May 2015, pp.256-261

● **Bina Yönetim Sistemleri için Tahliye Modeli**

Taş B., Örs Yalçın S. B. , KURT G. K.

Gomulu Sistemler ve Uygulamaları Sempozyumu (GomSis), İstanbul, Turkey, 4 - 05 December 2014, pp.1-5

● **Leon3 Tabanlı SoPC Tasarımı ve Uygulama Gerçeklenmesi**

Bagbaba A. Ç. , Ustaoglu B., Örs Yalçın S. B. , Işık G., Erdem I.

Gomulu Sistemler ve Uygulamaları Sempozyumu (GomSis), İstanbul, Turkey, 4 - 05 December 2014, pp.1-5

● **Mikroişlemci Tabanlı Bir Sisteme Hata Enjekte Etme Yöntemi Gelistirilmesi ve Hata Tespit Mekanizmasının Gerçeklenmesi**

Ustaoglu B., Örs Yalçın S. B.

Elektrik - Elektronik Ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 27 - 30 November 2014, pp.1-5

● **Image Filtering Processor and Its Applications**

Bagbaba A. Ç. , Ors B., Erozan A. T.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.2011-2014

● **Implementation of a Secure Near Field Communication System on a FPGA**

Bagbaba A. Ç. , Ors B.

8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.621-625

● **System Level Design of Scalable Encryption Algorithm by Using CoWare**

ALTINTAS A., Ors B.

International Conference on Computer, Information and Telecommunication Systems (CITS), Athens, Greece, 7 - 08 May 2013

● **Design and Implementation of a Secure RFID System on FPGA**

Ozen O. E. , Örs Yalçın S. B. , Yağcı H. B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

● **Reed-solomon decoder hardware implementation for DVB-S receiver DVB-S alicisi için reed-solomon kod çözücü donanım gerçekleştirilmesi**

DİLEK S. M. , Örs B., Kartal M.

2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013

● **Reed Solomon Decoder Hardware Implementation for DVB S Receiver**

DİLEK S. M. , ÖRS YALÇIN S. B. , KARTAL M.

21st Signal Processing and Communications Applications Conference, Girne, Cyprus (Kktc), 24 - 26 April 2013

● **Hardware/Software Codesign for Watermarking in DCT Domain**

Erozan A. T. , Baskir S. G. , Ors B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

● **Hardware/software codesign for watermarking in DCT domain DCT tanım kumesindeki damgalama işlemleri için yazılım/donanım ortakli sistem tasarımı**

EROZAN A. T. , BASKIR S. G. , Ors B.

2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013

● **Implementation of a Secure RFID Protocol**

Baskir S. G. , Ors B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

● **Implementation of a secure RFID protocol Güvenli bir RFID protokolünün gerçekleştirilmesi**

BASKIR S. G. , Ors B.

2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013

● **Design and implementation of a secure RFID system on FPGA Güvenli bir RFID sisteminin FPGA üzerinde tasarımı ve gerçekleştirilmesi**

ÖZEN O. E. , Berna Örs S. B. , Bülent Yağcı H.

2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013

● **Güvenli RFID Sistemleri İçin Bir Kimlik Doğrulama Protokolünün Gerçekleştirilmesi**

Alparslan S., Örs Yalçın S. B.

Gomulu Sistemler ve Uygulamaları Sempozyumu (GomSis), İstanbul, Turkey, 29 - 30 November 2012, pp.1-5

● **Kriptoloji Uygulamalarına Özel Bir İşlemcinin Tasarlanarak FPGA Üzerinde Gerçekleştirilmesi**

Şahin O., Örs Yalçın S. B.

Gomulu Sistemler ve Uygulamaları Sempozyumu (GomSis), İstanbul, Turkey, 29 - 30 November 2012, pp.1-5

● **GSM Ses Kanalından Sayısal Veri İleten Bir Modemin Tasarımı ve Gerçekleştirilmesi**

Tuncay S., Özkan A., Örs Yalçın S. B.

Gomulu Sistemler ve Uygulamaları Sempozyumu (GomSis), İstanbul, Turkey, 29 - 30 November 2012, pp.1-5

● **Architectures for fast modular multiplication**

Aris A., Ors B., Saldamli G.

2011 14th Euromicro Conference on Digital System Design: Architectures, Methods and Tools, DSD 2011, Oulu, Finland, 31 August - 02 September 2011, pp.434-437

● **System Level Design of a Secure Healthcare Smart Card System**

OKSAR M., Ors B., Saldamli G.

IEEE Systems and Information Engineering Design Symposium (SIEDS), Virginia, United States Of America, 29 April 2011, pp.170-175

● **Implementation of a PUF circuit on a FPGA**

SOYBALI M., Ors B., Saldamli G.

4th IFIP International Conference on New Technologies, Mobility and Security, NTMS 2011, Paris, France, 7 - 10 February 2011

● **Analyzing and comparing the Montgomery multiplication algorithms for their power consumption**

BAYHAN D., Ors S. B. , SALDAMLI G.

6th International Conference on Computer Engineering and Systems (ICCES), Cairo, Egypt, 30 November - 01 December 2010, pp.257-261

● **DESIGN OF NEW TINY CIRCUITS FOR AES ENCRYPTION ALGORITHM**

DALMISLI K. V. , Ors B.

3rd International Conference on Signals, Circuits and Systems, Medenine, Tunisia, 6 - 08 November 2009, pp.565-569

● **Differential Power Analysis Attack Considering Decoupling Capacitance Effect**

Danis A. U. , Ors B.

European Conference on Circuit Theory Design, Antalya, Turkey, 23 - 27 August 2009, pp.359-360

● **RFID Sistemlerinin Mikroislemci Uzerinde Guvenli Olacak Sekilde Gercekleenmesi**

Bulut K., Örs Yalçın S. B. , Yavuz İ.

3. Uluslararası Katılımlı Bilgi Guvenligi ve Kriptoloji Konferansi, Ankara, Turkey, 25 - 27 December 2008, pp.1-5

● **Bir Steganografi Sisteminin FPGA Uzerinde Gercekleenmesi**

Elçi B., Örs Yalçın S. B. , DALMISLI K. V.

3. Uluslararası Katılımlı Bilgi Guvenligi ve Kriptoloji Konferansi, Ankara, Turkey, 25 - 27 December 2008, pp.1-5

● **FPGA implementation of an elliptic curve cryptosystem over GF(3 m)**

Yavuz I., Yalçın S. B. , Koç Ç. K.

2008 International Conference on Reconfigurable Computing and FPGAs, ReConFig 2008, Cancun, Mexico, 3 - 05 December 2008, pp.397-402

● **Gelismis Sifreleme Standardinin - AES - FPGA Uzerinde Gercekleenmesi**

DALMISLI K. V. , Örs Yalçın S. B.

Elektrik - Elektronik Ve Bilgisayar Muhendisligi Sempozyumu, Bursa, Turkey, 26 - 30 November 2008, pp.1-5

● **Differential Power Analysis resistant hardware implementation of the RSA cryptosystem**

Bayam K. A. , Ors B.

IEEE International Symposium on Circuits and Systems, Washington, United States Of America, 18 - 21 May 2008, pp.3314-3315

● **Power analysis resistant hardware implementations of AES**

ORDU L., Örs B.

14th IEEE International Conference on Electronics, Circuits and Systems, ICECS 2007, Marrakech, Morocco, 11 - 14 December 2007, pp.1408-1411

● **Differential electromagnetic attack on an fpga implementation of elliptic curve cryptosystems**

DE MULDER E., Örs S. B. , PRENEEL B., VERBAUWHEDE I.

2006 World Automation Congress, WAC'06, Budapest, Hungary, 24 - 26 June 2006

● **Serial multiplier architectures over GF(2(n)) for elliptic curve cryptosystems**

BATINA L., MENTENS N., Ors S. B. , PRENEEL B.

12th IEEE Mediterranean Electrotechnical Conference (MELECON 2004), Dubrovnik, Croatia, 12 - 15 May 2004, pp.779-782

● **An FPGA Implementation of an EllipticCurve Processor over GF(2^m)**

MENTENS N., Örs Yalçın S. B. , PRENEEL B.

the 2004 Great Lakes Symposium on VLSI (GLSVLSI 2004), Boston, United States Of America, 26 - 28 April 2004, pp.454-457

● **Power-analysis attack on an ASIC AES implementation**

Ors S. B. , GURKAYNAK F. K. , OSWALD E., PRENEEL B.

International Conference on Information Technology - Coding and Computing, Nevada, United States Of America, 5 - 07 April 2004, pp.546-552

- **Power-Analysis Attacks on an FPGA -- First Experimental Results**
Örs Yalçın S. B. , OSWALD E., PRENEEL B.
the 5th International Workshop on Cryptographic Hardware and Embedded Systems (CHES), Köln, Germany, 8 - 10 September 2003, pp.35-50
- **Hardware implementation of an elliptic curve processor over GF(p)**
Örs S. B. , Batina L., PRENEEL B., VANDEWALLE J.
IEEE International Conference on Application-Specific Systems, Architectures, and Processors, ASAP 2003, The Hague, Netherlands, 24 - 26 June 2003, pp.433-443
- **Hardware implementation of a Montgomery modular multiplier in a systolic array**
Örs S. B. , Batina L., PRENEEL B., VANDEWALLE J.
International Parallel and Distributed Processing Symposium, IPDPS 2003, Nice, France, 22 - 26 April 2003
- **Modeling n/spl times/n bit multiplication blocks for DSP applications using VHDL**
Örs S. B. , DERVISOGLU A.
25th EUROMICRO Conference on Informatics: Theory and Practice for the New Millennium, EUROMICRO 1999, Milan, Italy, 8 - 10 September 1999, vol.1, pp.402-405

Supported Projects

Örs Yalçın S. B. , Project Supported by Higher Education Institutions, Reliability And Security of Arbiter Based Physical Unclonable function Circuits, 2013 - 2018

Örs Yalçın S. B. , Project Supported by Higher Education Institutions, Differential Power Analysis Resistant Hardware Implementation of the RSA Cryptoayste, 2008 - 2018

Örs Yalçın S. B. , Project Supported by Higher Education Institutions, Eliptik Eğri Kripto Sistemlerinin FPGA Gerçeklemeleri Üzerinde Elektromagnetik Yayınım Analizi Saldırısı, 2006 - 2018

Örs Yalçın S. B. , Project Supported by Higher Education Institutions, Kriptografi Algoritmaları İçin Gömülü Sistem Tasarımı, 2006 - 2008

Örs Yalçın S. B. , Project Supported by Higher Education Institutions, AES Şifreleme Algoritmasının Yan Kanal Ataklarına Karşı Güvenli Olacak Şekilde FPGA Üzerinde Gerçeklenmesi, 2006 - 2007

Citations

Total Citations (WOS):361

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