

## **EK-4**

### **ÖZGEÇMİŞ (ÖRNEK FORM)**

1. **Adı Soyadı: Selçuk Baktır**
2. **Doğum Tarihi: 15.02.1978**
3. **Unvanı: Yrd. Doç. Dr.**
4. **Öğrenim Durumu:**

<b>Derece</b>	<b>Alan</b>	<b>Üniversite</b>	<b>Yıl</b>
Lisans	Elektrik-Elektronik Müh.	Bilkent Üniversitesi	2001
Y. Lisans	Elektrik ve Bilgisayar Müh.	Worcester Polytechnic Institute	2003
Doktora	Elektrik ve Bilgisayar Müh.	Worcester Polytechnic Institute	2008

5. **Akademik Unvanlar:**

**Yardımcı Doçentlik Tarihi : 2011**  
**Doçentlik Tarihi :**  
**Profesörlük Tarihi :**

6. **Yönetilen Yüksek Lisans ve Doktora Tezleri**

6.1. **Yüksek Lisans Tezleri**

1. Betül Doğan. A Web-Based Audit Platform for Internal Audit Departments of Banks. October 2014.
2. Utku Gülen. Implementing Elliptic Curve Cryptography for Wireless Sensor Networks. September 2014.
3. Bahar Uğurdoğan. DDoS Saldırılarına Karşı İstatistiksel Koruma Yaklaşımı. Haziran 2015.
4. Murat Şahin. Agile (Scrum) Implementation for Banking Applications in Turkey, Is Scrum Useful or Not? January 2016.
5. Yavuz Sert. Comparative Analysis and Best Practices for Tivibu Web and Digiturk Play. January 2016.

6.2. **Doktora Tezleri**

7. **Yayınlar**

7.1. **Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)**

1. Melike Yiğit, Çağrı Güngör, Selçuk Baktır. Cloud Computing for Smart Grid Applications. Elsevier Computer Networks Journal 70 (2014) 312-329.
2. Selçuk Baktır, Sandeep Kumar, Christof Paar, Berk Sunar. Mobile Networks and Applications (MONET) Journal, Special Issue on Next Generation Hardware Architectures for Secure Mobile Computing, vol 12, no 4, pp 259-270, September 2007, Springer.
3. Selçuk Baktır, Berk Sunar. IEEE Transactions on Computers, volume 53, number 10, pages 1231-1243. October, 2004.

## 7.2. Uluslararası diğ er hakemli dergilerde yayınlanan makaleler

1. Murat Oğ ul, Selç uk Baktır. Practical Attacks on Mobile Cellular Networks and Possible Countermeasures. Future Internet. 5(4):474-489. 2013.

## 7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler

1. Murat Oğ ul, Emin İslam Tatlı, Selç uk Baktır. Abused Android Permissions by Advertising Networks. Proceedings of the IEEE International Conference on IT Convergence and Security (ICITCS) 2014.
2. Selç uk Baktır. Privacy Preserving Smart Grids in the Cloud. Proceedings of the IEEE International Conference on IT Convergence and Security (ICITCS) 2014.
3. Utku Gulen, Selç uk Baktır. Elliptic Curve Cryptography on Constrained Microcontrollers Using Frequency Domain Arithmetic. Computational Science and Its Applications, Part IV - ICCSA 2014, pp 493-506. Springer Lecture Notes in Computer Science.
4. Nele Mentens, Lejla Batina, Selç uk Baktır. An Elliptic Curve Cryptographic Processor Using Edwards Curves and the Number Theoretic Transform. Proceedings of the International Conference on Cryptography and Information Security - BalkanCryptSec 2014. Springer Lecture Notes in Computer Science.
5. Selç uk Baktır, Erkay Savaş. Highly-Parallel Montgomery Multiplication for Multi-core General-Purpose Microprocessors. Proceedings of the 27th International Symposium on Computer and Information Sciences (ISCIS 2012). Springer.
6. Selç uk Baktır, Tansal Güç lüoğ lu, Atilla Özmen, Hüseyin Fuat Alsan, Mustafa Can Macit. Detecting Trojans in Integrated Circuits. IEEE Proceedings of the International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2012).
7. Selç uk Baktır, Berk Sunar. Optimal Extension Field Inversion in the Frequency Domain. Proceedings of the 2nd International Workshop on the Arithmetic of Finite Fields (WAIFI 2008), Springer Lecture Notes in Computer Science.
8. Dakshi Agrawal, Selç uk Baktır, Deniz Karakoyunlu, Pankaj Rohatgi, Berk Sunar. Trojan Detection Using IC Fingerprinting. Proceedings of the 2007 IEEE Symposium on Security and Privacy (S&P'07).
9. Selç uk Baktır, Berk Sunar. Finite Field Polynomial Multiplication in the Frequency Domain with Application to Elliptic Curve Cryptography. 21st International Symposium on Computer and Information Sciences (ISCIS 2006), Lecture Notes in Computer Science, volume 4263, pages 991-1001, Springer.
10. Selç uk Baktır and Berk Sunar. Achieving Efficient Polynomial Multiplication in Fermat Fields Using the Fast Fourier Transform. Proceedings of the 44th ACM Southeast Conference (ACMSE 2006), pages 549-554 , ACM Press.
11. Selç uk Baktır, Jan Pelzl, Thomas Wollinger, Berk Sunar, Christof Paar. Optimal Tower Fields for Hyperelliptic Curve Cryptosystems. IEEE Proceedings of the 38th Asilomar Conference on Signals, Systems and Computers, 7-10 November 2004, Pacific Grove, California.

#### **7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler**

#### **7.5. Ulusal hakemli dergilerde yayınlanan makaleler**

#### **7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler**

#### **7.7. Diğer yayınlar**

1. Selçuk Baktir, Vinodh Gopal, Gilbert Wolrich, Prashant Paliwal, Wajdi Feghali. Accelerated Decompression. US Patent Nr. 7,872,598, January 18, 2011.
2. Selçuk Baktir. Frequency Domain Finite Field Arithmetic for Elliptic Curve Cryptography. Ph.D. Dissertation, Electrical and Computer Engineering Department, Worcester Polytechnic Institute, Worcester, MA, USA, April 2008.
3. Dakshi Agrawal, Selçuk Baktir, Deniz Karakoyunlu, Pankaj Rohatgi, Berk Sunar. Trojan Detection Using IC Fingerprinting. IBM Research Report, RC24110, 2006.
4. Selçuk Baktir. Efficient Algorithms for Finite Fields, with Applications in Elliptic Curve Cryptography. Master's Thesis, Electrical and Computer Engineering Department, Worcester Polytechnic Institute, Worcester, MA, USA, April 2003.

#### **8. Projeler**

1. New Directions for Efficient and Tamper Resilient Public Key Cryptography in Ubiquitous Computing; Marie Curie Career Integration Grant, European Union 7th Framework Programme, 2010-2014.
2. Tüm Devrelerde Parmak İzi Yöntemi ile Truva Atı Yakalama; TÜBİTAK 1001 Arastirma Projesi, 2012.
3. FFT ile Frekans Bölgesinde Performans Etkin Açık Anahtarlı Şifreleme; TÜBİTAK 3501 Arastirma Projesi, 2016-2018.

#### **9. İdari Görevler**

1. Siber Güvenlik Yüksek Lisans Programı Direktörü, Bahçeşehir Üniversitesi (2013 - )
2. Doktora Program Direktörü, Bahçeşehir Üniversitesi (2012 - 2013)

#### **10. Bilimsel ve Mesleki Kuruluşlara Üyelikler**

#### **11. Ödüller**

1. TÜBİTAK Career Award, 2016.
2. Marie Curie Award, 2010.
3. IBM Research Pat Goldberg Memorial Best Paper Award, 2007.
4. Finalist for the Best Student Paper Contest, 38th IEEE Asilomar Conference on Signals, Systems and Computers, 2004.
5. WPI Graduate Scholarship, 2001-2008.
6. Bilkent University Board of Trustees Scholarship, 1997-2001.

12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2014	Güz	Network Security & Cryptography	3	0	31
		Advanced Topics in Cryptography	3	0	2
		Digital System Design	2	3	118
	Yaz	Introduction to Network Security & Cryptography	3	0	16
	İlkbahar	Network Security & Cryptography	3	0	21
		Embedded Systems Programming	2	3	113
2015	Güz	Network Security & Cryptography	3	0	24
		Digital System Design	2	3	100
	İlkbahar	Embedded Systems Programming	2	3	112
		Network Security & Cryptography	3	0	21