


# Dr. Binnur Kurt

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## Professional Experience

DEEPCLOUDLABS 2018 – to date
Founder and CEO

Deep knowledge in the following technologies:

- Cloud Computing
- Big Data
- Artificial Intelligence and Machine Learning
- Image and Video Analytics
- Blockchain and crypto-currency
- Algorithmic and High-Frequency Trading
- Project Management and Software Process Enhancement

BAU Bahçeşehir University April 2022 – to date
Director of Big Data Education and Research Center

BAU Bahçeşehir University October 2022 – to date
Asst. Prof., Artificial Intelligence Engineering Department

## EDUCATION

Istanbul Technical University, Computer Engineering Department
**Ph.D.**
2007

Istanbul Technical University, Control and Computer Engineering Department
**M.Sc.**
1997

Istanbul Technical University, Control and Computer Engineering Department
**B.Sc.**
1995

## RECENT PROJECTS

**DEEPCLOUDLABS**
February 2022 – *ongoing*
**PROJECT MANAGER, SOFTWARE ARCHITECT**
On-Chain Analysis Platform

**DEEPCLOUDLABS**
October 2021 – *ongoing*
**PROJECT MANAGER, SOFTWARE ARCHITECT**
Cloud-native AI Platform for monitoring distance learning performance and exam security based on face biometry
*Supported by TÜBİTAK TEYDEB (Project No: 3215051)*

**DEEPCLOUDLABS**
February 2021 – February 2022
**PROJECT MANAGER, SOFTWARE ARCHITECT**
Deep Learning based Diagnosis System for Anomaly Detection in Chest X-Ray Images
*Supported by TÜBİTAK TEYDEB (Project No: 1190021)*

**DEEPCLOUDLABS**
February 2018 – February 2019
**PROJECT MANAGER, SOFTWARE ARCHITECT**
Developing Exchange and Algorithmic Trading Platform for CryptoCurrency Markets as Cloud Native Application using Java SE 8, Spring Cloud, Apache Kafka, MongoDB, TensorFlow.
*Supported by TÜBİTAK TEYDEB (Project No: 2170404)*



## RECENT CONSULTANCY AND TRAINING

İŞ YATIRIM
May 2017 – 2021
**CONSULTANT**

Worked as a consultant in the trading software project and help the team in the following technologies:
- Multi-core and Parallel Programming in C++11
- Linux Programming



Garanti BBVA
February 2014 – 2020
**INFORMATION TECHNOLOGY TRAINER**

I have delivered the following training:

- Advanced Python Programming
- Fundamentals of Scala Programming
- Java SE 8 Programming
- Advanced Java Programming
- Test Driven Development using jUnit 5
- Effective Java Programming
- Advanced JavaScript Programming
- Developing Angular Applications
- Developing React.js Applications
- Client-side and Server-side JavaScript Programming
- Building Scalable Web Applications using Node.js, MongoDB, and Angular
- Developing RIA using HTML5, CSS3, and JS
- Developing Vue.js 2 Applications
- Implementing MicroService Architecture using Spring Cloud
- Developing Enterprise Applications using Spring Framework




SIEMENS
May 2018 – *ongoing*
**INFORMATION TECHNOLOGY TRAINER**

I have been delivering the following training:

- Object-Oriented Programming using C++14
- Functional Programming in C++17
- Advanced C++ Programming
- Object Oriented Programming Principals and Design Patterns (in C++)
- Linux System Programming
- Python Programming
- Advanced Python Programming
- Java Performance Tuning and Optimization
- Java SE 9 Programming
- Advanced Java Programming
- Effective Java Programming
- Advanced JavaScript Programming
- Developing React Applications
- Implementing MicroService Architecture using Spring Cloud
- Building Applications in Microservice Architecture using Spring Cloud and Docker
- Design Patterns and Best Practices in Jakarta EE 8
- Spring Core 5
- Developing Enterprise Applications using Spring 5
- Spring Data with Hibernate 5
- RabbitMQ: Architecture & Administration
- Big Data Essentials
- Data Analytics using Python
- Practical Machine Learning using Python

SOFTTECH
December 2017 – to date
**INFORMATION TECHNOLOGY TRAINER**

I have been delivering the following training:

- Python Programming
- Advanced Python Programming
- Java SE 8/11/17 Programming
- NodeJS Programming
- JavaScript Programming
- Developing Angular Applications
- Developing Vuejs Applications
- Client-side and Server-side JavaScript Programming
- Building Scalable Web Applications using Node and MongoDB
- Implementing MicroService Architecture using Spring Cloud
- Cloud Architecture Patterns
- Implementing Event Driven Microservice Architecture using Spring Boot & Apache Kafka
- Spring Data with Hibernate 5
- Big Data Essentials

SAHABT
December 2021-March 2022
**Java and Spring Technologies Bootcamp**

I have delivered the following training:

- Java SE 17 Programming
- Core Spring 5
- Developing Spring Boot 2 Applications
- Developing React Applications
- Implementing MicroServices Architecture using Spring Cloud

TÜBİTAK BİLGEM
January 2019 – December 2019
**CONSULTANT, SOFTWARE ARCHITECT**

Gümrük Tarama Ağı Bulut Depolama Ve Görüntü Analiz Sistemi

TÜBİTAK BİLGEM
January 2017 – 2018
**CONSULTANT, SOFTWARE ARCHITECT**

Working as a consultant in TAAAS (Test Automation As A Service) project. I guide the team in the following technologies: Core Spring, Spring Boot, Spring Data, Spring REST, Spring Security, and Angular.

TÜBİTAK BİLGEM
March 2017 – 2018
**CONSULTANT, SOFTWARE ARCHITECT**

Working as a consultant in the project “Afet Yönetim ve Karar Destek Sistemi” (AYDES) UZAL-KİTLE. I guide the team in the following technologies: Core Spring, Spring Boot, Spring Data, Spring REST, and

Spring Security.



TÜBİTAK BİLGEM
April 2016 – 2019
**CONSULTANT, SOFTWARE ARCHITECT**

Working as a consultant in the following projects
- UAAS (Usability As A Service)
- PTAAS (Performance Testing As A Service)
- Safir DEPO

Helping the development team members to understand the following: Core Spring, Spring Boot, Spring Data, Spring REST, Spring Security, Angular, MySQL, RabbitMQ



Enerji Piyasaları İşletme Anonim Şirketi (EPİAŞ)
August 2019 – December 2019
**INFORMATION TECHNOLOGY TRAINER**

I have delivered the following trainings:
- Java SE 9 Programming
- Software Development Tools
- Spring Core 5
- Spring Data with Hibernate 5
- Effective Java Programming
- Developing Enterprise Applications on Java EE 8
- Developing SOAP and RESTful Web Services on Java EE 8



İŞ INVESTMENT
December 2016 – February 2017
**CONSULTANT**

Multi-threaded programming in C++11



İŞ INVESTMENT
May 2016
**INFORMATION TECHNOLOGY TRAINER**

I have delivered the following training:
- Object Oriented Programming in C++11
- Multi-Threaded Programming in C++11
- Network Programming using Boost.Asio



TÜBİTAK BİLGEM
April 2014 – March 2015
**CONSULTANT, SOFTWARE ARCHITECT**

Working as a software architect in VİSKON Crowd Sourcing Platform developed for AFAD (Disaster and Emergency Management Authority of Turkey). Developing two modules: Administration Module and Client Module. Administration Module is a classical Java EE 6 Web Centric project based on JSF 2, Prime Faces 5, CDI, Local EJB, Hibernate 4 with JPA 2.
Client Module is basically an HTML 5 Web Application using KnockoutJS on client side and Java EE 6 for Restful Web Service on server side.
Developed JSF 2 Components for Interactive Web Map and Map Drawing using LeafletJS.



Ericsson
July 2013 - February 2014
**CONSULTANT**

Reviewed the architecture of Ericsson's Telco CRM Application
Consultancy and training in MySQL Cluster and JBoss EAP 6 Clustering



Istanbul Technical University, Computer Engineering Department
2008-2012
**VISITING LECTURER**

I have delivered the following courses:
- Internet Programming
- Object Oriented Analysis and Design
- Web Application Services



SIEMENS
June 2010 – August 2010
**CONSULTANT AND TRAINER**
Training and Consultancy in the following areas:
Spring and Hibernate, JSF, jQuery, Tomcat 6 Administration



Istanbul Technical University, Computer Engineering Department
2004-2008
**LECTURER**

I have delivered the following courses:
- Artificial Intelligence
- Software Engineering
- Object Oriented Programming using C++
- Introduction to Scientific and Engineering Computing



## TRAININGS OFFERED

**C/C++ TRAININGS**

**DCL-100**: C Programming Language
**DCL-112**: Object Oriented Programming using C++14
**DCL-113**: Functional Programming in C++17
**DCL-114**: New Features in C++11/14/17/20
**DCL-115**: Multi-Threaded Programming in C++14
**DCL-116**: Network Programming using Boost.Asio
**DCL-118**: Advanced C++ Programming
**DCL-120**: OOP Principles and Design Patterns (in C++)
**DCL-140**: Linux Programming

**JAVA SE TRAININGS**

**DCL-200**: Java Performance Tuning and Optimization
**DCL-202**: Java SE 11 Programming
**DCL-204**: Java SE 17 Programming

**DCL-205**: Preparation for OCA/OCP Java SE 8 Programmer Exams
**DCL-210**: Advanced Java Programming
**DCL-215**: Test Driven Development with JUnit 5
**DCL-220**: OOP Principles and Design Patterns (in Java)
**DCL-222**: Design Patterns (in Java) and UML 2
**DCL-230:** Object Oriented Analysis and Design using UML 2
**DCL-235**: Effective Java Programming
**DCL-252**: New features in Java SE 8-18
**DCL-255**: New Features of Java Platforms (Java SE 8-18; Jakarta EE 9)

**MICROSERVICE TRAININGS**

**DCL-350:** Implementing MicroService Architecture using Spring Cloud
**DCL-352:** Domain Driven Essentials
**DCL-355:** MicroService Patterns
**DCL-356:** Cloud Architecture Patterns
**DCL-358:** Implementing Event-Driven MicroService Architecture using Spring Boot & Kafka
**DCL-640**: Apache Kafka: Architecture and Deployment
**DCL-642**: RabbitMQ: Architecture and Administration

**BIG DATA TRAININGS**

**DCL-700**: Big Data Essentials
**DCL-702**: Data Analytics with Python
**DCL-710**: Practical Machine Learning using Python

**JAKARTA EE TRAININGS**

**DCL-342**: Jakarta Persistence with JPA 3
**DCL-364**: Design Patterns and Best Practices in Jakarta EE 9
**DCL-365**: Architect Enterprise Applications with Jakarta EE 9
**DCL-390**: Developing Enterprise Applications on Jakarta EE9
**DCL-398**: Developing High Scalable Web Applications
**DCL-420**: Developing SOA and RESTful Web Services on Jakarta EE 9

**JAVASCRIPT TRAININGS**

**DCL-302:** Node.js Programming
**DCL-304:** Advanced JavaScript Programming
**DCL-305:** Developing Angular Applications
**DCL-306:** Developing React Applications
**DCL-308:** Developing RIA using Spring Boot and Angular
**DCL-310:** Client-side and Server-side JavaScript Programming
**DCL-314:** Building Scalable Web Applications using Node.js, MongoDB, and JS
**DCL-316:** Developing Rich Internet Applications (RIA) using HTML5, CSS3 and JS
**DCL-318:** Developing Vue.js 3 Applications

**SPRING TRAININGS**

**DCL-370**: Spring Framework 5
**DCL-372**: Spring Core 5
**DCL-374**: Developing Spring Boot 2 Applications
**DCL-375**: Developing Enterprise Applications using Spring Framework 5
**DCL-376**: Spring Data
**DCL-378**: Spring Security 5

**MYSQL TRAININGS**

**DCL-600:** MySQL 5.7/8 Workshop

**DCL-605:** MySQL HA Workshop
**DCL-608:** MySQL Cluster Workshop

**APPLICATION SERVER TRAININGS**

**DCL-632**: JBoss EAP 7: Administration
**DCL-640**: WebLogic 12c Administration Workshop

**PROGRAMMING LANGUAGE TRAININGS**

**DCL-160:** Python Programming
**DCL-162:** Advanced Python Programming
**DCL-165:** Fundamentals of Scala Programming




## PUBLICATIONS

### INTERNATIONAL BOOKS

1. F.Kahraman, **B.Kurt**, M.Gokmen, "***Robust Face Alignment for Illumination and Pose Invariant Face Recognition***," Chapter 13, Face Recognition, ISBN 978-953-307-060-5, INTECH, April 2010.
2. **B.Kurt**, Zehra Cataltepe, "***Platforms for Enterprise Servers***," Chapter 9, Handbook of Enterprise Integration, pp.209-223, Auerbach Publications, 2010.
3. **B.Kurt**, H.T.Demiral, "***Adaptive $\lambda\tau$-Space Representation of Images and Edges***," Recent Advances in Signal Processing and Communications, pp. 53-59, Part I: Signal Processing, World Scientific and Engineering Society Press, 1999.

### NATIONAL BOOKS

1. **B.Kurt**, "***İşletim Sistemleri***," DEEP**CLOUD**LABS, 2014
   *https://binkurt.blogspot.com/2014/09/isletim-sistemleri.html*
2. **B.Kurt**, "***XML Web Servisleri***," Ahmet Yesevi Üniversitesi, 2006
3. **B.Kurt** (Editor), "***AutoCAD Rel.13***" (*Translation*), Sistem Publishing, Istanbul, 1998.
4. **B.Kurt** (Editor), "***C/C++***" (*Translation*), Sistem Publishing, Istanbul, 1998.

### JOURNAL PAPERS

1. F.Kahraman, **B.Kurt**, M.Gökmen, "***Active Appearance Based Robust Face Alignment***," **itü**dergisi/**d**, vol. 10, no. 3, pp. 49–60, 2011.
2. A.Çapar, **B.Kurt**, M.Gökmen, "***Gradient Based Shape Descriptors***," Machine Vision and Applications, vol. 20, no. 6, pp. 365–378, 2009.
3. **B.Kurt**, M.Gökmen, "***İki Boyutlu Genelleştirilmiş Ayrıt Saptayıcı***," **itü**dergisi/**d**, vol. 8, no. 5, pp. 3–10, 2009.
4. F.Kahraman, B.Evrim Demiröz, **B.Kurt**, M.Gökmen, "***Bakış Açısından Bağımsız Gürbüz Plaka Tanıma Sistemi***," Endüstri ve Otomasyon, sayı 106, sayfa 28-32, Ocak 2006.
5. **B.Kurt**, M.Gökmen, "***Image Compression Based On Centipede Model***," ARI, Technical Bulletin of ITU, Vol.54, No.3, pp. 35-43, January, 2005.

### INTERNATIONAL CONFERENCES

1. **B.Kurt**, M.Gökmen, "***Goal-Oriented Edge Detection***," International Conference on Computer and Information Sciences (ISCIS'2008), İstanbul, Turkey, 2008.
2. F.Kahraman, **B.Kurt**, M.Gökmen, "***Robust Face Alignment for Illumination and Pose Invariant Face Recognition***," IEEE Conf. on Computer Vision and Pattern Recognition (CVPR 2007), IEEE Computer Society Workshop on Biometrics, Minneapolis, Minnesota, USA, 2007.

3. **B.Kurt**, A. Şima Etaner-Uyar, Tuğba Akbal, Nildem Demir, Alp Emre Kanlikilicer, Merve Can Kuş, and Fatma Hülya Ulu, "***Active Appearance Model-based Facial Composite Generation with Interactive Nature-Inspired Heuristics***," Lecture Notes in Computer Science, International Workshop on Multimedia Content Rep., Classification & Security, pp. 183-190, 2006.
4. A.Çapar, **B.Kurt**, M.Gökmen, "***Affine-Invariant Gradient Based Shape Descriptor***," Lecture Notes in Computer Science, International Workshop on Multimedia Content Representation, Classification and Security, pp. 514-521, 2006.
5. F.Kahraman, **B.Kurt**, M.Gökmen, "***License Plate Character Segmentation Based on the Gabor Transform and Vector Quantization***," Lecture Notes in Computer Science, 18th Int. Conf. on Computer and Information Sciences-ISCIS'2003, pp.381-388, November 3-5, 2003.
6. **B.Kurt**, M.Gökmen, "***Color and Shaped Based Indexing Using Scale-Space Representations***," Proceedings of the International Symposium on Artificial Intelligence and Neural Networks, pp.30, 2-4 July 2003.
7. **B.Kurt**, "***Direction Selective Smoothing of Color Images in $\lambda\tau$-Space***," Proceedings of 15th International Conference on Computer and Information Sciences, ISCIS'2000, pp. 202-210, Istanbul, Turkey, 11-13 October 2000.
8. **B.Kurt**, "***Automatic Indexing of Broadcast News***," Proceedings of 15th International Conference on Computer and Information Sciences, ISCIS'2000, pp. 552-560, Istanbul, Turkey, 11-13 October 2000.
9. **B.Kurt**, H.T.Demiral, "***Adaptive $\lambda\tau$-Space Representation of Images and Edges***," Proceedings of 3rd International Conference on Communications, IMACS/IEEE CSCC'99, pp. 3011-3017, Athens, Greece, 4-8 July 1999.
10. **B.Kurt**, M.Gökmen, "***Two-Dimensional Generalized Edge Detector***," IEEE Proceedings of International Conference on Image Analysis and Processing, ICIAP'99, pp. 148-153, Venice, Italy, September 1999.
11. **B.Kurt**, M.Gökmen, A.K.Jain, "***Image Compression Based On Centipede Model***," Lecture Notes in Computer Science, International Conference on Image Analysis and Processing, ICIAP'97, Vol. I, pp. 303-310, Florence, Italy, September 1997.

**NATIONAL CONFERENCES**

1. F. Kahraman, C. Hüroglu, M. Imamoğlu, B Y. Özcan, M. I. Kalkan, M. A. Hocaoğlu, E. Öztürk, B. Kurt, "Enterprise crowdsourcing platform for geospatial image analysis," *2015 23nd Signal Processing and Communications Applications Conference (SIU)*, 2015, pp. 1813-1816.
2. **B. Kurt**, M.Gökmen, "***Amaca Yönelik Ayrıt Saptayıcı,***" 16th Conference on Signal Processing and Its Applications, SIU'2008.
3. F.Kahraman, B.E.Demiröz, **B. Kurt**, M.Gökmen, "***İlgin Değişimsiz Şekil Betimleyiciler,***" 15th Conference on Signal Processing and Its Applications, SIU'2007.
4. F.Kahraman, **B.Kurt**, M.Gökmen, "***Three-Band Modeling Using Prominent Edges for Face Alignment***," 14th IEEE Conference on Signal Processing and Its Apps, IEEE SIU'2006, 2006.
5. F.Kahraman, **B. Kurt**, M.Gökmen, "***AAM Based Face Recognition,***" 13th Conference on Signal Processing and Its Applications, SIU'2005.
6. F.Kahraman, B.E.Demiröz, **B. Kurt**, M.Gökmen, "***View Independent Robust License Plate Recognition System,***" 13th Conference on Signal Processing and Its Applications, SIU'2005.
7. **B. Kurt**, M.Gökmen, "***Ölçek Uzayı Gösterimine Dayalı Renk ve Şekil Tabanlı İndeksler***," Proceedings of 11th Conference on Signal Processing and Its Applications, SIU'2003, pp.805-808, Istanbul, 2003.
8. **B. Kurt**, M.Gökmen, "***İmge ve Videoların İndeksleme Amaçlı Ölçek-uzayı Analizi***," Proceedings of 10th Conference on Signal Processing and Its App.s, SIU'2002, pp.335-340, Pamukkale, 2002.
9. **B.Kurt**, M.Gökmen, "***Video Dizilerinden Reklam Saptama ve İndeksleme***," Proceedings of 9th Conference on Signal Processing and Its Applications, SIU'2001, pp.735-740, Gazi Magusa, KKTC, 25-27 Nisan 2001.
10. **B.Kurt**, M.Gökmen, "***Yinelemeli ve Uyarlanır Ayrıt Saptayıcı Süzgeçleri***," Proceedings of 9th Conference on Signal Processing and Its Applications, SIU'2001, pp.410-415, Gazi Magusa,

KKTC, 25-27 Nisan 2001.

11. **B.Kurt**, H.T.Demiral, "***Sahne Geçişlerinin Geometri Tabanlı Olarak Saptanması***," Proceedings of **8**th IEEE Conference on Signal Processing and Its Applications, IEEE SIU'2000, 2000.
12. **B.Kurt**, "***İletim Katsayısının Koloni Sistemine Dayalı Olarak Öğrenilmesi***," Proceedings of **8**th IEEE Conference on Signal Processing and Its Applications, IEEE SIU'2000, 2000.
13. **B.Kurt**, M.Gökmen, "***İki Boyutlu Genelleştirilmiş Ayrıt Saptayıcı***," Proceedings of 7th IEEE Conference on Signal Processing and Its App.s, IEEE SIU'99, pp. 481-486, Ankara Turkey, 1999.
14. **B.Kurt**, "***Yönsel Anisotropik Difüzyon ile Görüntü İyileştirme***," Proceedings of 6th Conference on Signal Processing and Its Applications, SIU`98, Vol. I, pp. 137-142, 1998.
15. **B.Kurt**, H.T.Demiral, "***Çevrite Dayalı Etkin Bir Görüntü Gösterimi***," Proceedings of 6th Conference on Signal Processing and Its Applications, SIU'98, Vol. I, pp. 259-264, 1998.
16. **B.Kurt**, M.Gökmen, "***Kırkayak Modeline Dayalı Görüntü Sıkıştırma***," Proceedings of 5th Conference on Signal Processing and Its Apps, SIU'97, Vol. I, pp. 303-308, Kuşadası, May 1997.