

# Arda Söylev

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## CONTACT INFORMATION

Department of Computer Engineering  
Konya Food and Agriculture University  
Konya, Turkey

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*ORCID:*0000-0003-2198-1920

## RESEARCH INTERESTS

Algorithms for Bioinformatics and Computational Biology;

- Human genome structural variation detection
- High-throughput sequencing technologies
- Biological Network Alignment

## ACADEMIC EXPERIENCE

**Dept. of Comp. Eng., Konya Food and Agriculture University**, Konya, Turkey  
*Assistant Professor* **2018 - present**

## EDUCATION

**Bilkent University**, Ankara, Turkey  
*Department of Computer Engineering*

Ph.D., Computer Science, 2013 - 2018

- Thesis Topic: Algorithms for Structural Variation Discovery Using Multiple Sequencing Signatures
- Advisor: Asst. Prof. Dr. Can Alkan

**TOBB Economy and Technology University**, Ankara, Turkey  
*Department of Computer Engineering*

M.Sc., Computer Science, 2010 - 2013

- Thesis Topic: Effective Similarity Calculation in Biological Network Databases
- Advisor: Assoc. Prof. Dr. Osman Abul

**İşık University**, Istanbul, Turkey  
*Department of Computer Engineering*

B.Sc., Computer Science, 2003 - 2007

- Project Topic: OSPF Network Protocol
- Advisor: Asst. Prof. Dr. Tamer Dağ

## PROFESSIONAL EXPERIENCE

**Nortel Networks Netaş**, Istanbul, Turkey  
*Telecommunication Engineer in Research and Development Dept.*

**2007 - 2008**

**AIG (American International Group)**, Istanbul, Turkey  
4-month Internship in IT Department

**2006**

**Siemens**, Istanbul, Turkey  
6-month Internship

**2005**

RESEARCH  
PROJECTS

Title: Algorithms for structural variation discovery using hybrid sequencing technologies and library preparation protocols.  
(TÜBİTAK-1001-215E172), 2016-2018 - PI: Can Alkan  
**Position: Researcher**

PROFESSIONAL  
ACTIVITIES

- IEEE Member
- Reviewer: 7th International Workshop on Wireless Sensor Actuator and Robot Networks 2013
- Organizing Committee Member of CCSEIT 2013 Conference

HOBBIES

Chess, basketball, Turkish literature, Classical Turkish Music and playing the instruments of ney, tanbur

PUBLICATIONS

**Discovery of tandem and interspersed segmental duplications using high throughput sequencing.**

A. Soylev, Le, T., Amini, H., Alkan, C. and Hormozdiari, F. *bioRxiv* (2018): 393694,

**Toolkit for automated and rapid discovery of structural variants.**

A. Soylev, C. Kockan, F. Hormozdiari, C. Alkan. *Methods* 129, 3-7, (2017).

**MOOCs 2.0: The Social Era of Education**

Soylev, Arda. *Turkish Online Journal of Distance Education* 18, no. 2 (2017): 56-67.,

**A study of sound transmission loss for building materials using simulative and experimental approaches**

Aksoylu, Ceyhun; Mendi, Engin; Soylev, Arda. *Journal of The Faculty of Engineering and Architecture of Gazi University* 31.4 (2016),

**REFBSS: Reference based similarity search in biological network databases**

Soylev, Arda, and Abul, Osman. *Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)*, 2015 IEEE Conference on. IEEE, 2015.

**Turkish Sign Language Animation with motion capture**

Soylev, Arda, and Mendi, Engin. *Signal Processing and Communications Applications Conference (SIU), IEEE*, 2014 22nd, vol., no., pp. 834, 837, 23- 25 April 2014.

**Uncovering the Impact of Minimum-Energy Routing on Lifetime of Wireless Sensor Networks**

Soylev, Arda; Bicakci, Kemal and Tavli, Bulent. *Distributed Computing in Sensor Systems (DCOSS)*, 2013 IEEE International Conference on , vol., no., pp.436,441, 20-23 May 2013