

# Prof. İLYAS ÇİÇEKLİ

## Personal Information

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**Address:** Bilgisayar Mühendisliği Bölümü, Hacettepe Üniversitesi, Beytepe, Ankara

## International Researcher IDs

ORCID: 0000-0001-5448-9655

Publons / Web Of Science ResearcherID: G-6030-2013

Yoksis Researcher ID: 7541

## Education Information

Doctorate, Syracuse University, Computer And Information Science, Computer Science, United States Of America 1985 - 1991

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Design and Implementation of An Abstract MetaProlog Engine for MetaProlog, Syracuse University, Bilgisayar Bilimleri, 1991

## Research Areas

Computer Sciences, Theoretical Computer Science, Artificial Intelligence, Computer Learning and Pattern Recognition, Knowledge Engineering, Computer Learning, Natural Language Processing, Text/Document Processing, Software, Programming Languages, Engineering and Technology

## Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - Continues

Assistant Professor, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Computer Engineering, 1993 - 2011

## Academic and Administrative Experience

Hacettepe Üniversitesi, Bilişim Enstitüsü, 2012 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - Continues

## Advising Theses

- ÇİÇEKLİ İ., Lexical cohesion analysis for topic segmentation, summarization and keyphrase extraction, Doctorate, G.ERCAN(Student), 2012
- ÇİÇEKLİ İ., Text Summarization Using Latent Semantic Analysis, Postgraduate, M.GÜLÇİN(Student), 2011
- ÇİÇEKLİ İ., Automating information extraction task for Turkish texts, Doctorate, S.TATAR(Student), 2011
- ÇİÇEKLİ İ., Noun phrase chunker for Turkish using dependency parser, Postgraduate, M.KUTLU(Student), 2010
- ÇİÇEKLİ İ., Searching documents with semantically related keyphrases, Postgraduate, İ.AYGÜL(Student), 2010
- ÇİÇEKLİ İ., Natural language query processing in ontology based multimedia databases, Postgraduate, F.ALACA(Student), 2010
- ÇİÇEKLİ İ., Ontology based information extraction on free text radiological reports using natural language processing approach, Doctorate, E.SOYSAL(Student), 2010
- ÇİÇEKLİ İ., Turkish factoid question answering using answer pattern matching, Postgraduate, N.PALA(Student), 2009
- ÇİÇEKLİ İ., Automatic video categorization and summarization, Postgraduate, K.DEMİRTAŞ(Student), 2009
- ÇİÇEKLİ İ., Futbol maç anlatımlarından üstveri çıkarma, Postgraduate, Ö.GÖKTÜRK(Student), 2008
- ÇİÇEKLİ İ., Induction of logical relations based on specific generalization of strings, Postgraduate, Y.UZUN(Student), 2007
- ÇİÇEKLİ İ., Example based machine translation with type associated translation examples, Postgraduate, H.DOĞAN(Student), 2007
- ÇİÇEKLİ İ., Improving the precision of example-based machine translation by learning from user feedback, Postgraduate, T.OSMAN(Student), 2007
- ÇİÇEKLİ İ., Automated text summarization and keyphrase extraction, Postgraduate, G.ERCAN(Student), 2006
- ÇİÇEKLİ İ., A link grammar for turkish, Postgraduate, Ö.İSTEK(Student), 2006
- ÇİÇEKLİ İ., Generalization of predicates with string arguments, Postgraduate, G.CANITEZER(Student), 2002
- ÇİÇEKLİ İ., Turkish text to speech system, Postgraduate, B.EKER(Student), 2002
- ÇİÇEKLİ İ., Turkish to Crimean Tatar machine translation system, Postgraduate, K.ALTINTAŞ(Student), 2001
- ÇİÇEKLİ İ., Error tolerant finite state parsing for a Turkish dialogue system, Postgraduate, A.ÇONDUROĞLU(Student), 2001
- ÇİÇEKLİ İ., Prefix suffix based statistical language models of Turkish, Postgraduate, U.TOPKARA(Student), 2001
- ÇİÇEKLİ İ., Turing test and conversation, Postgraduate, A.PINAR(Student), 1999
- ÇİÇEKLİ İ., Confidence factor assignment to translation templates, Postgraduate, O.ZEYNEP(Student), 1998
- ÇİÇEKLİ İ., Design and implementation of a system for mapping text meaning representations to F-structures of Turkish, Postgraduate, S.MURAT(Student), 1997
- ÇİÇEKLİ İ., Turkish text generation with systemic- functional grammar, Postgraduate, T.KORKMAZ(Student), 1996

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Hybrid Approach for Automated Short Answer Grading**  
KAYA M., ÇİÇEKLİ İ.  
IEEE ACCESS, pp.96332-96341, 2024 (SCI-Expanded)
- II. **REHREC: Review Effected Heterogeneous Information Network Recommendation System**  
Khalilzadeh F., ÇİÇEKLİ İ.  
IEEE Access, vol.12, pp.42751-42760, 2024 (SCI-Expanded)
- III. **Protest Event Analysis: A New Method Based on Twitter's User Behaviors**  
Zadeh M. H., ÇİÇEKLİ İ.  
Information Technology and Control, vol.52, no.2, pp.457-470, 2023 (SCI-Expanded)
- IV. **An external plagiarism detection system based on part-of-speech (POS) tag n-grams and word embedding**  
Yalcin K., ÇİÇEKLİ İ., ERCAN G.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.197, 2022 (SCI-Expanded)
- V. **Learning term weights by overfitting pairwise ranking loss**  
Sahin Ö., ÇİÇEKLİ İ., Ercan G.

Turkish Journal of Electrical Engineering and Computer Sciences, vol.30, no.5, pp.1914-1930, 2022 (SCI-Expanded)

- VI. **Selective personalization and group profiles for improved web search personalization**  
Mansoub S. K., ERCAN G., ÇİÇEKLİ İ.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.3, pp.1631-1643, 2020 (SCI-Expanded)
- VII. **Topic segmentation using word-level semantic relatedness functions**  
ERCAN G., ÇİÇEKLİ İ.  
JOURNAL OF INFORMATION SCIENCE, vol.42, no.5, pp.597-608, 2016 (SCI-Expanded)
- VIII. **Keyphrase extraction through query performance prediction**  
Ercan G., ÇİÇEKLİ İ.  
JOURNAL OF INFORMATION SCIENCE, vol.38, no.5, pp.476-488, 2012 (SCI-Expanded)
- IX. **A ranking method for example based machine translation results by learning from user feedback**  
Daybelge T., Cicekli I.  
APPLIED INTELLIGENCE, vol.35, no.2, pp.296-321, 2011 (SCI-Expanded)
- X. **Automatic rule learning exploiting morphological features for named entity recognition in Turkish**  
Tatar S., ÇİÇEKLİ İ.  
JOURNAL OF INFORMATION SCIENCE, vol.37, no.2, pp.137-151, 2011 (SCI-Expanded)
- XI. **Text Summarization using Latent Semantic Analysis**  
ÇİÇEKLİ İ., alpaslan f., Ozsoy M.  
JOURNAL OF INFORMATION SCIENCE, vol.35, pp.296-321, 2011 (SCI-Expanded)
- XII. **Automatic categorization and summarization of documentaries**  
Demirtas K., Cicekli N. K., Cicekli I.  
JOURNAL OF INFORMATION SCIENCE, vol.36, no.6, pp.671-689, 2010 (SCI-Expanded)
- XIII. **Design and evaluation of an ontology based information extraction system for radiological reports**  
Soysal E., Cicekli I., BAYKAL N.  
COMPUTERS IN BIOLOGY AND MEDICINE, vol.40, pp.900-911, 2010 (SCI-Expanded)
- XIV. **Generic Text Summarization for Turkish**  
Kutlu M., Cigir C., Cicekli I.  
COMPUTER JOURNAL, vol.53, no.8, pp.1315-1323, 2010 (SCI-Expanded)
- XV. **Two learning approaches for protein name extraction**  
Tatar S., Cicekli I.  
JOURNAL OF BIOMEDICAL INFORMATICS, vol.42, no.6, pp.1046-1055, 2009 (SCI-Expanded)
- XVI. **Natural language querying for video databases**  
Erozel G., Cicekli N. K., Cicekli I.  
INFORMATION SCIENCES, vol.178, no.12, pp.2534-2552, 2008 (SCI-Expanded)
- XVII. **Using lexical chains for keyword extraction**  
Ercan G., Cicekli Y.  
INFORMATION PROCESSING & MANAGEMENT, vol.43, no.6, pp.1705-1714, 2007 (SCI-Expanded)
- XVIII. **Formalizing the specification and execution of workflows using the event calculus**  
Cicekli N. K., Cicekli I.  
INFORMATION SCIENCES, vol.176, no.15, pp.2227-2267, 2006 (SCI-Expanded)
- XIX. **Generalizing predicates with string arguments**  
Cicekli I., Cicekli N. K.  
APPLIED INTELLIGENCE, vol.25, no.1, pp.23-36, 2006 (SCI-Expanded)
- XX. **Pragmatics in human-computer conversations**  
Saygin A. P., Cicekli I.  
JOURNAL OF PRAGMATICS, vol.34, no.3, pp.227-258, 2002 (SSCI)
- XXI. **Learning translation templates from bilingual translation examples**  
Cicekli I., GUVENIR H.  
APPLIED INTELLIGENCE, vol.15, no.1, pp.57-76, 2001 (SCI-Expanded)
- XXII. **Turing Test: 50 years later**

SAYGIN A., Cicekli I., AKMAN V.

MINDS AND MACHINES, vol.10, no.4, pp.463-518, 2000 (SCI-Expanded)

**XXIII. Learning translation templates from examples**

GUVENIR H., Cicekli I.

INFORMATION SYSTEMS, vol.23, no.6, pp.353-363, 1998 (SCI-Expanded)

**XXIV. An intelligent backtracking schema in a logic programming environment**

Cicekli I.

ACM SIGPLAN NOTICES, vol.32, no.3, pp.42-49, 1997 (SCI-Expanded)

## Articles Published in Other Journals

**I. An ontology-based approach to parsing Turkish sentences**

ÇİÇEKLİ İ., temizsoy M.

LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol.1529, pp.124-135, 1998 (Scopus)

**II. Ordering translation templates by assigning confidence factors**

ÇİÇEKLİ İ., Oz Z.

LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol.1529, pp.51-61, 1998 (Scopus)

**III. Theories and proofs in fault diagnosis**

ÇİÇEKLİ İ.

Lecture Notes in Artificial Intelligence, vol.1480, pp.181-194, 1998 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

**I. Comparison of Textual Data Augmentation Methods on SST-2 Dataset**

Çataltaş M., Baykan N. A., ÇİÇEKLİ İ.

2nd International Congress of Electrical and Computer Engineering, ICECENG 2023, Bandirma, Turkey, 22 - 25 November 2023, pp.189-201

**II. Automatic Term Extraction with Joint Multilingual Learning**

Karaman I. N., ÇİÇEKLİ İ., Ercan G.

7th International Conference on Computer Science and Engineering, UBMK 2022, Diyarbakır, Turkey, 14 - 16 September 2022, pp.159-164

**III. Noun Phrase Chunking for Turkish Using a Dependency Parser**

Kutlu M., ÇİÇEKLİ İ.

30th International Symposium on Computer and Information Sciences (ISCIS), London, Canada, 21 - 24 September 2015, vol.363, pp.381-391

**IV. Content-Based News Recommendation: Comparison of Time-Based System and Keyphrase-Based System**

Tasci S., ÇİÇEKLİ İ.

6th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (IC3K), Rome, Italy, 21 - 24 October 2014, vol.553, pp.84-98

**V. Developing A Platform That Supplies Processed Information From Internet Resources And Services**

Suleymanov N., ÇİÇEKLİ İ.

2nd International Conference on Soft Computing and Machine Intelligence (ISCMI), Hong Kong, PEOPLES R CHINA, 23 - 24 November 2015, pp.116-120

**VI. TurKeyX: Turkish Keyphrase Extractor**

Kalaycilar F., Cicekli I.

23rd International Symposium on Computer and Information Sciences, İstanbul, Turkey, 27 - 29 October 2008, pp.374-377

**VII. Lexical cohesion based topic modeling for summarization**

Ercan G., Cicekli I.

9th International Conference on Intelligent Text Processing and Computational Linguistics, Haifa, Israel, 17 - 23 February 2008, vol.4919, pp.582-592

**VIII. METADATA EXTRACTION FROM TEXT IN SOCCER DOMAIN**

Gokturk Z. O., Cicekli N. K., Cicekli I.

23rd International Symposium on Computer and Information Sciences (ISCIS), İstanbul, Turkey, 27 - 29 October 2008, pp.425-426

**IX. Automated Web Services Composition with the Event Calculus**

AYDIN O., Cicekli N. K., Cicekli I.

8th International Workshop on Engineering Societies in the Agents World, Athens, Greece, 22 - 24 October 2007, vol.4995, pp.142-144

**X. Induction of logical relations based on specific generalization of strings**

Uzun Y., Cicekli I.

22nd International Symposium on Computer and Information Sciences, Ankara, Turkey, 7 - 09 November 2007, pp.162-167

**XI. Turkish keyphrase extraction using KEA**

Pala N., Cicekli I.

22nd International Symposium on Computer and Information Sciences, Ankara, Turkey, 7 - 09 November 2007, pp.192-196

**XII. A machine translation system between a pair of closely related languages**

ALTINTAS K., Cicekli I.

17th International Symposium on Computer and Information Sciences, Florida, United States Of America, 28 - 30 October 2002, pp.192-196

## **Metrics**

Publication: 39

Citation (WoS): 386

Citation (Scopus): 355

H-Index (WoS): 11

H-Index (Scopus): 10

## **Non Academic Experience**

Bilkent Üniversitesi

University of Central Florida

Applied Logic Systems, ABD

Syracuse University, ABD

Syracuse University, ABD

Orta Doğu Teknik Üniversitesi