

# Ramazan Gökberk CİNBIŞ

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

Computer vision and machine learning, with special interest in deep learning, statistical image models and weakly supervised learning for large-scale object detection, and image/video understanding.

## EDUCATION

**Inria Rhône-Alpes & Université de Grenoble**, Grenoble, France

- PhD., Computer Science, 09/2010 - 07/2014.
- Advisors: Dr. Jakob Verbeek, Dr. Cordelia Schmid (IEEE Fellow).
- Dissertation: Fisher Kernel based Models for Image Classification and Object Localization.
- **Best PhD Thesis Award** by French Association for Pattern Recognition (AFRIF).

**Boston University**, Boston, MA, USA

- M.A., Computer Science, 09/2008 - 09/2010.
- Advisor: Prof. Stan Sclaroff (IEEE Fellow, IAPR Fellow).
- Thesis title: Set Based Modeling of Objects and Their Context.

**Bilkent University**, Ankara, Turkey

- B.S., Computer Engineering, 09/2004 - 05/2008.
- Advisor: Assoc. Prof. Selim Aksoy.
- **Ranked 1<sup>st</sup> at graduation** (GPA: 3.94/4.0)

## RESEARCH, CONSULTANCY AND WORK EXPERIENCE

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

*Assistant Professor* (02/2016 - Present)

**Milsoft**, Ankara, Turkey

*Researcher (Part-time)* (04/2014 - 01/2016)

*External project PI / consultant* (06/2016 - 01/2017)

**Inria Grenoble, Learning and Recognition in Vision (LEAR) Team**, France

*Doctoral researcher* (09/2010 - 04/2014)

**Boston University, Image and Video Computing Group (BU)**, Boston, MA

*Research/Teaching Assistant* (09/2008 - 09/2010)

**Mitsubishi Electric Research Laboratories (MERL)**, Cambridge, MA

*Intern* (06/2009-08/2009)

**Carnegie Mellon University, The Robotics Institute (CMU)**, Pittsburgh, PA

*Robotics Institute Summer Scholar* (06/2007-08/2007)

**Bilkent University, RETINA Vision and Learning Group** – Ankara, Turkey  
*Member, Intern* (01/2006 – 06/2008)

**Grandeye** – Ankara, Turkey  
*Intern* (06/2006 – 07/2006)

**Buladur** – Ankara, Turkey  
*Part-time Computer Vision Engineer* (01/2008 – 06/2008)

HONORS  
AND AWARDS

- Our SIU 2016 paper received Alper Atalay Best Student Paper Award - Third Prize.
- PhD Thesis Award by *Association Française pour la Reconnaissance et l'Interprétation des Formes* (AFRIF), the French branch of *International Assoc. for Pattern Recognition* (IAPR), 2015.
- PhD thesis is selected to appear in the information booklet of Université de Grenoble, 2015.
- Travel grant and doctoral consortium award at IEEE Conf. on Computer Vision & Pattern Recognition (CVPR), 2014.
- Inria full-time doctoral research grant, 2010.
- Ranked 1<sup>st</sup> at graduation from Bilkent University, Computer Engineering Department (2008).
- Research/teaching assistanship and full tuition award by Boston University. (2008).
- Undergraduate research scholarship award by Carnegie Mellon University Robotics Institute (2007).
- Full scholarship including tuition, stipend, and housing by Bilkent University upon success in the National University Entrance Exam (2004).
- Ranked 1<sup>st</sup> at graduation from Denizli High School of Science (2004).

STUDENT  
SUPERVISION

**Current students**

- Onur Aydin, M.S. student
- Mert Bulent Sariyildiz, M.S. student
- Suleyman Aslan, M.S. student
- Emir Ceyani, undergraduate student
- Yarkin Deniz Cetin, undergraduate student

**Past students**

- Berkan Demirel, M.S. 12/2016 (Hacettepe University, co-supervised with Nazli Ikizler-Cinbis).

RESEARCH  
GRANTS

- “Learning Visual Recognition Models with Incomplete Supervision”, 3501 CAREER Award, sponsored by TUBITAK (Scientific and Technological Research Council of Turkey), project no. 116E445, Principal Investigator. 01/04/2017-01/04/2020.

The three most prestigious conferences in computer vision are the IEEE Conference on Computer Vision and Pattern Recognition (*CVPR*), IEEE International Conference on Computer Vision (*ICCV*), and the European Conference on Computer Vision (*ECCV*), for which the acceptance rates are around 25%. The proceedings of these three conferences are widely considered as important and influential as the top international journals in the field, *i.e.* IEEE Transactions on Pattern Analysis and Machine Intelligence (*TPAMI*) and International Journal of Computer Vision (*IJCV*).

### Google Scholar

- My Google Scholar profile is available at <http://goo.gl/B9d6lM>.
- My **h-Index** is 12, and the total number of citations is 800+.

### Journal Papers

- G. Sumbul, R. G. Cinbis, S. Aksoy, “Fine-Grained Object Recognition and Zero-Shot Learning in Remote Sensing Imagery”, IEEE Transactions on Geoscience and Remote Sensing, in press, 2017.
- R. G. Cinbis, J. Verbeek, C. Schmid, “Weakly Supervised Object Localization with Multi-fold Multiple Instance Learning”, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) (SCI), 39 (1), pp. 189-203, January 2017.
- R. G. Cinbis, J. Verbeek, C. Schmid, “Approximate Fisher Kernels of non-iid Image Models for Image Categorization”, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) (SCI), 38 (6), pp. 1084-1098, June 2016.
- S. Aksoy, R. G. Cinbis, “Image Mining Using Directional Spatial Constraints”, IEEE Geoscience and Remote Sensing Letters (SCI-E), 7 (1), pp. 33-37, January 2010.
- B. U. Toreyin, R. G. Cinbis, Y. Dedeoglu, A. E. Cetin, “Fire Detection in Infrared Video Using Wavelet Analysis”, SPIE Optical Engineering (SCI), 46 (6), pp. 067204-067204-9, June 2007.

### Book Chapters

- S. Aksoy, R. G. Cinbis, H. G. Akcay, “Image Classification and Object Detection Using Spatial Contextual Constraints”, in C. H. Chen, ed., Signal and Image Processing for Remote Sensing, Taylor & Francis, 2011.

### International Conference Papers

- B. Demirel, R. G. Cinbis, N. Ikizler-Cinbis, “Attributes2Classname: A discriminative model for attribute-based unsupervised zero-shot learning”, in IEEE International Conference on Computer Vision (ICCV), Venice, Italy, October 2017.
- R. G. Cinbis, J. Verbeek, C. Schmid, “Multi-fold MIL Training for Weakly Supervised Object Localization”, in IEEE Conference on Computer Vision & Pattern Recognition (CVPR), Ohio, USA, June 2014.
- R. G. Cinbis, J. Verbeek, C. Schmid, “Segmentation Driven Object Detection with Fisher Vectors”, in IEEE International Conference on Computer Vision (ICCV), Sydney, Australia, December 2013.
- R. G. Cinbis, S. Sclaroff, “Contextual Object Detection using Set-based Classification”, in European Conference on Computer Vision (ECCV), Florence, Italy, October 2012. (Lecture Notes on Computer Science - LNCS, Volume 7577, 2012.)

- R. G. Cinbis, J. Verbeek, C. Schmid, “Image categorization using Fisher kernels of non-iid image models”, in IEEE Conference on Computer Vision & Pattern Recognition (CVPR), Providence, USA, June 2012.
- R. G. Cinbis, J. Verbeek, C. Schmid, “Unsupervised metric learning for face identification in TV video”, in International Conference on Computer Vision (ICCV), Barcelona, Spain, November 2011.
- N. Ikizler-Cinbis, R. G. Cinbis, S. Sclaroff, “Learning actions from the Web”, in IEEE International Conference on Computer Vision (ICCV), Kyoto, Japan, September 2009.
- N. Ikizler, R. G. Cinbis, P. Duygulu, “Human Action Recognition with Line and Flow Histograms”, in IAPR International Conference on Pattern Recognition (ICPR), Florida, USA, December 2008.
- N. Ikizler, R. G. Cinbis, S. Pehlivan, P. Duygulu, “Recognizing Actions from Still Images”, in IAPR International Conference on Pattern Recognition (ICPR), Florida, USA, December 2008.
- S. Aksoy, G. Akcay, G. Cinbis, T. Wassenaar, “Automatic mapping of linearwoody vegetation features in agricultural landscapes”, in IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Boston, Massachusetts, July 2008.
- R. G. Cinbis, S. Aksoy, “Relative Position-Based Spatial Relationships using Mathematical Morphology”, in IEEE International Conference on Image Processing (ICIP), San Antonio, Texas, September 2007.

#### National Conferences

- B. Demirel, R. G. Cinbis, N. Ikizler-Cinbis, “Visual Saliency Estimation via Attribute Based Classifiers and Conditional Random Fields”, in IEEE Signal Processing and Communications Applications Conference (SIU), May 2016.
- B. Gunyel, R. G. Cinbis, S. Ture, A. C. Gurbuz, “Hyperspectral target detection - An experimental study”, in IEEE Signal Processing and Communications Applications Conference (SIU), May 2015.
- R. G. Cinbis, S. Aksoy, “Morphological Modeling of Position-Based Spatial Relationships”, in IEEE Signal Processing and Communications Applications Conference (SIU), June 2007.

#### Technical Reports and Non-refereed Papers

- R. G. Cinbis, S. Aksoy, “Modeling Spatial Relationships in Images”, in Technical Report, BU-CE-0702, Department of Computer Engineering, Bilkent University, Ankara, Turkey, January 2007.
- S. Aksoy, P. Duygulu, G. Akcay, E. Ataer, M. Bastan, T. Can, O. Cavus, E. Dogrusoz, D. Gokalp, A. Akaydin, L. Akoglu, P. Angin, G. Cinbis, T. Gur, M. Unlu, “Bilkent University at TRECVID”, in TREC Video Retrieval Evaluation (TRECVID), 2006.

#### TEACHING EXPERIENCE

- *Co-organizer & Instructor*, Bilkent Summer School on Artificial Intelligence for High School students (Bilkent University, new program - Summer’17).
- *Instructor*, CS 559, Deep Learning (Bilkent University, new course - S’17)
- *Instructor*, CS 484, Image Analysis (Bilkent University, S’17)
- *Instructor*, CS 464, Introduction to Machine Learning (Bilkent University, S’16, F’16)
- *Instructor*, CS 315, Programming Languages (Bilkent University, F’16)
- *Instructor*, CS 101, Algorithms and Programming I (Bilkent University, S’16)

- *Teaching Fellow*, CS 480/680 Intro to Computer Graphics (Boston University, S'10)
- *Teaching Fellow*, CS 111 Introduction to Computer Science (Boston University, F'08)
- *Participant*, Teaching Fellow orientation program and seminars (Boston University, F'08)
- *Tutor*, CS 111 Introduction to Matlab and Java (Bilkent University, S'06)

INVITED TALKS AND SEMINARS

- Lecturer at “Bozkırda Yapay Öğrenme Yaz Okulu (BYÖYO) 2017”, Hacettepe University, Ankara, Turkey, August 2017.
- “Learning Object Recognition Models with Incomplete Supervision”, invited talk at Havelsan Inc., Ankara, Turkey, November, 2016.
- “Weakly Supervised Learning for Object Localization”, invited talk at DataScience Meetup, Ankara, Turkey, May, 2016.
- “Fisher Kernel based Models for Image Classification and Weakly Supervised Object Localization”, seminar at Department of Computer Engineering at Bilkent University, Ankara, Turkey, November, 2015.
- “Fisher Kernel based Models for Image Classification and Weakly Supervised Object Localization”, seminar at Department of Computer Engineering at Middle East Technical University, Ankara, Turkey, November, 2015.
- “Contextual Object Detection using Set-based Classification”, seminar at ImageLab, at Middle East Technical University, Ankara, Turkey, November, 2015.
- “Fisher Kernel based Models for Image Classification and Object Localization”, invited talk at the ORASIS conference, Amiens, France, June, 2015.

PROFESSIONAL ACTIVITIES

- Deputy Dissemination coordinator for The European Network on Integrating Vision and Language (iV&L Net) ICT COST Action (01/17 - Present).
- Project reviewer for TÜBİTAK TEYDEB R&D Grants (2017).
- Reviewer for the book "Big Data Analytics for Large-Scale Multimedia Search", Wiley & Sons (2017).
- Reviewer for IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI).
- Reviewer for International Journal of Computer Vision (IJCV).
- Reviewer for Int. Journal of Image and Vision Computing (IVC/IMAVIS).
- Reviewer for IEEE Trans. on Multimedia (TMM).
- Reviewer for IEEE Signal Processing Letters (SPL).
- Reviewer for Int. Jour. of Pattern Recognition and Artificial Intelligence (IJPRAI).
- Reviewer for IEEE Int. Conf. on Computer Vision and Pattern Recognition (CVPR).
- Reviewer for IEEE Int. Conf. on Computer Vision (ICCV).
- Reviewer for IEEE European Conf. on Computer Vision (ECCV).
- Program Committee member at Twenty-Ninth Conf. on Artificial Intelligence (AAAI).
- Program Committee member at IEEE Int. Conf. on Advanced Video and Signal-based Surveillance (AVSS).
- Reviewer for IEEE Winter Conference on Applications and Computer Vision (WACV).
- Reviewer for Conference on Graphics, Patterns and Images (SIBGRAPI).
- Reviewer for IEEE Workshop on Applications of Computer Vision (WACV).
- Reviewer for Australasian Joint Conference on Artificial Intelligence (AI).

## SKILLS

- Favorite tools: Torch (Lua), Python, TensorFlow, Matlab, C/C++, L<sup>A</sup>T<sub>E</sub>X.
- Other tools: Caffe, OpenCV, OpenMP, Bash, Javascript/HTML5, Java, HDF5.
- Previously used: Protobuf, POSIX, SQL, C#, Verilog, Assembly (MIPS, 80x51), PHP, Google Web Toolkit, OpenGL, Qt, Jam, BitKeeper, Perforce.
- Speaks Turkish (native), English (fluent), French (beginner).