

# MUJDAT CETIN

Sabanci University  
Faculty of Engineering and Natural Sciences  
Orhanli , Tuzla, 34956 Istanbul, Turkey  
Phone: +90 (216) 483-9594, Fax: +90 (216) 483-9550  
E-mail: [mcetin@sabanciuniv.edu](mailto:mcetin@sabanciuniv.edu)  
Web: <http://spis.sabanciuniv.edu>

Google Scholar: <https://scholar.google.com/citations?user=nq7tuDkAAAAJ&hl=en&oi=ao>

January 2017

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## RESEARCH INTERESTS

Data, signal, and imaging sciences; computational sensing and imaging; biomedical and neural data and image analysis; brain-computer interfaces; signal representation; machine learning; image segmentation; data fusion.

## PROFESSIONAL EXPERIENCE

SABANCI UNIVERSITY, İstanbul, Turkey  
**Associate Professor** (2012 - present)  
**Assistant Professor** (2005 - 2012)

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA, USA  
**Visiting Faculty Member** (2013-2014)  
**Visiting Research Scientist** (Summers 2006-2009)  
**Research Scientist** (2002-2005)  
**Post-Doctoral Associate** (2001-2002)

NORTHEASTERN UNIVERSITY, Boston, MA, USA  
**Visiting Faculty Member** (2013-2014)

BOSTON UNIVERSITY, Boston, MA, USA  
**Visiting Faculty Member** (2013-2014)  
**Research Assistant** (1995-2001)

## EDUCATION

BOSTON UNIVERSITY, Boston, MA, USA

**Ph.D. in Electrical Engineering, February 2001**

Dissertation: *Feature-Enhanced Synthetic Aperture Radar Imaging*

UNIVERSITY OF SALFORD, Manchester, UK

**M.S. in Electrical Engineering, June 1995**

Thesis: *Attitude Control of a Triple Inverted Pendulum*

BOĞAZIÇI UNIVERSITY, İstanbul, Turkey

**B.S. in Electrical Engineering, June 1993**

Senior Project: *A Game-Theoretic Approach to the  $H^\infty$  Optimal Control Problem*

## HONORS

IEEE Signal Processing Society Best Paper Award (2010)

IET Radar, Sonar and Navigation Premium (Best Paper) Award (2013)

Elsevier Signal Processing Journal Best Paper Award (2007)

The Turkish Academy of Sciences (TÜBA) Distinguished Young Scientist Award (2008)

METU Mustafa Parlar Foundation Research Incentive Award (2010)

TÜBİTAK Career Award (2006)

International Conference on Information Fusion, Best Student Paper Award (2005)

American Geophysical Union, Fall Meeting, Outstanding Student Paper Award (2003)

IEEE Conference on Signal Processing, Communications, and their Applications,

Alper Atalay Best Student Paper Award (2008)

IEEE Conference on Signal Processing, Communications, and their Applications,

Second Place Award in Best Student Paper Competition (2009)

IEEE ICIP paper recognized as one of the Top 10% papers based on reviewer evaluations (2015)

IEEE ICASSP paper rated as “top in its category” by reviewers (2004)

MIT Paul E. Gray (Endowed Fund) Award for undergraduate research project (advisor) (2004)

Boston University (Science Day), Best Engineering Research Award (1998)

Boston University, Graduate Research Assistantship (1995-2001)

Turkish NSF & NATO Doctoral Study Support Scholarship (1995)

Institute of Measurement and Control, Manchester Section Graduate Award (1994)

University of Salford, Highest GPA among 30 M.S. graduates in Electrical Engineering (1994)

The British Council, Foreign and Commonwealth Office Scholarship (1993-1994)

Turkish Education Foundation, Graduate Study Scholarship (1993-1994)

Boğaziçi University Alumni Association, Graduate of the Year Award (1993)

Boğaziçi University, High Honor Student Award (1993)

Perfect 800 Scores in GRE Quantitative and Analytical Exams (1992)

Koç Foundation, Undergraduate Scholarship (1989-1993)

Boğaziçi University Alumni Association, Undergraduate Scholarship (1989-1993)

Turkish University Entrance Exam (ÖYS), ranked 6th among 400,000 candidates (1989)

Turkish University Entrance Exam (ÖSS), ranked 7th among 700,000 candidates (1989)

Türkiye İş Bankası Prize for Top 66 Students in ÖYS (1989)

## SPONSORED RESEARCH PROJECTS

1. “Adaptive Brain-Computer Interfaces with Inference and Exploitation of Sustained Attention,” Sponsor: The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2017-2020 (PI).
2. “Interferometric SAR Processing Algorithm Development,” Sponsor: ASELSAN, Inc., 2015-2016 (PI).
3. “Probabilistic and Machine Learning-based Methods for Automatic Dendritic Spine Segmentation, Classification, and Tracking in Two-Photon Microscopy Images,” Sponsor: The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2014-2017 (co-PI).
4. “Advanced Hyperspectral Imaging Technologies,” Sponsor: Undersecretariat for Defence Industries (through SDT, Inc.), 2014-2015 (Consultant).
5. “High Quality Real-time Radar Imaging on Embedded Systems using Convex Optimization Techniques,” Sponsor: The Scientific and Technological Research Council of Turkey (TÜBİTAK) (through ASELSAN, Inc.), 2013-2015 (Consultant).
6. “Brain-Computer Interfaces based on Random Process and Random Field Models,” Sponsor: The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2011-2014 (PI).
7. “A Brain-Computer Interface-based Robotic Rehabilitation System,” Sponsor: Sabancı University (Internal Research Grant), 2011-2014 (PI).
8. “Image Analysis and Automatic Target Recognition System,” Sponsor: Undersecretariat for Defence Industries (through SDT, Inc.), 2010-2013 (Consultant).
9. “New Generation Signal Processing Techniques for Imaging Sensors and Sensor Networks,” Sponsor: The Scientific and Technological Research Council of Turkey (TÜBİTAK) (Career Award), 2006-2011 (PI).
10. “MURI: Integrated Fusion, Performance Prediction, and Sensor Management for Automatic Target Exploitation,” Sponsor: U.S. Air Force Research Laboratory, 2006-2011 (co-PI).
11. “Development of Electroencephalography (EEG) Signal Analysis Techniques for Brain Computer Interface (BCI) Systems,” Sponsor: The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2007-2010 (PI).
12. “MR-based Analysis, Indexing, and Retrieval of Brain Iron Deposition in Basal Ganglia,” Sponsor: European Commission (Marie Curie Transfer of Knowledge Grant), 2006-2010 (co-PI).
13. “Signal, Image Processing and Pattern Recognition for Intelligent Automation Center,” Sponsor: European Commission, 2005-2008 (co-PI).
14. “New Generation Information Processing Techniques for Imaging Sensors and Wireless Sensor Networks,” Sponsor: European Commission (Marie Curie International Reintegration Grant), 2006-2008 (PI).
15. “Analysis of Traffic at Junctions using Smart Cameras,” Sponsor: Istanbul Metropolitan Municipality, 2007-2008 (co-PI).

16. "Feature-Enhanced, Model-Based Sparse Aperture Imaging," Sponsor: U.S. Air Force Research Laboratory, 2004-2008 (PI).
17. "Probabilistic and Information-Theoretic Methods for Enhanced Spatial Interpretation: Fusion; Segmentation and Feature Extraction; Enhanced Imaging," Sponsor: Royal Dutch / Shell Group of Companies, 2004-2008 (Researcher).
18. "Signal Processing and Advanced Information Technologies for Improving Driving Prudence and Accident Reduction," Sponsor: Turkish State Planning Organization, 2005-2007 (co-PI).
19. "Improving Feature-Level Data Association for Multi-Mode Sensors," Sponsor: U.S. Air Force Research Laboratory, subcontract through BAE Systems, Advanced Information Technologies, 2004-2006 (PI).
20. "MURI: Data Fusion in Large Arrays of Microsensors," Sponsor: U.S. Army Research Office, 2000-2005 (co-PI/Researcher).
21. "Data Assimilation in the Earth Sciences," Sponsor: National Science Foundation, 2001-2005 (Researcher).

## ADVISING EXPERIENCE

### Ph.D. theses

1. Majed Elwardy (Sabancı University), thesis topic to be determined, ongoing.
2. Başarbatu Can (Sabancı University), “Machine Learning Methods for Automotive Control Applications,” ongoing.
3. Gunet Eroglu (Sabancı University), “Neurofeedback and Multi Sensory Learning for Dyslexia Rehabilitation,” ongoing.
4. Muhammed Burak Alver (Sabancı University), “Decision-directed Methods for SAR Imaging,” ongoing.
5. Mastaneh Torkamani Azar (Sabancı University), “Exploiting Passive Cognitive States in Brain-Computer Interfaces,” ongoing.
6. İpek Baz (Sabancı University), “Statistical Methods for a Fine-Grained Retail Product Recognition System,” ongoing.
7. Ertunç Erdil (Sabancı University), “Bayesian Methods for Segmentation of Objects from Multimodal and Complex Shape Densities using Statistical Shape Priors,” ongoing.
8. Jaime Fernando Delgado Saa (Sabancı University), “Probabilistic Graphical Models for Brain-Computer Interfaces,” January 2014.
9. Serhan Coşar (Sabancı University), “Sparse Representation Frameworks for Inference Problems in Visual Sensor Networks,” November 2013.
10. Özben Önhon (Sabancı University), “Joint Sparsity-Driven Inversion and Model Error Correction for SAR Imaging,” February 2012.
11. Murat Üney (Sabancı University & METU), “Decentralized Estimation under Communication Constraints,” October 2009.
12. Esra Vural (Sabancı University), “Video Based Detection of Driver Fatigue,” August 2009.
13. Walter Sun (MIT), “Learning the Dynamics of Deformable Objects and Recursive Boundary Estimation Using Curve Evolution Techniques,” August 2005.
14. Junmo Kim (MIT), “Nonparametric Methods for Image Segmentation and Shape Analysis,” February 2005.

## M.S. theses

15. Oğuzcan Zengin (Sabancı University), “New Signal Processing Methods for Interferometric SAR,” ongoing.
16. Mubashar Yasin (Sabancı University), “Low-Rank Sparse Decomposition Methods in SAR Imaging,” ongoing.
17. Naeimeh Atabakilachini (Sabancı University), “Dynamic Segmentation of Dendritic Spines in Two-Photon Microscopy Images,” ongoing.
18. Majed Elwardy (Sabancı University), “Disjunctive Normal Unsupervised LDA for P300-based Brain-Computer Interfaces,” 2016.
19. Abdullahi Adamu (Sabancı University), “Analysis of Error-Related Potentials in P300 and Motor Imagery Based Brain Computer Interfaces,” 2016.
20. Sezen Yağmur Günay (Sabancı University), “Decoding of Motor Task Difficulty and Execution Speed from EEG Data with Application to Stroke Rehabilitation,” 2016.
21. Ozan Özdenizci (Sabancı University), “Identifying Neural Correlates of Motor Adaptation Learning for BCI-Assisted Stroke Rehabilitation,” 2016.
22. Usman Ghani (Sabancı University), “Dendritic Spine Shape Analysis based on Two-Photon Microscopy Images,” 2016.
23. İsmail Yılmaz (Sabancı University), “Adaptation in P300 and Motor Imagery-based BCI Systems,” September 2015.
24. Abdurrahim Soğanlı (Sabancı University), “Dictionary Learning and Low-rank Sparse Matrix Decomposition for Sparsity-driven SAR Image Reconstruction,” September 2014.
25. Ela Koyaş (Sabancı University), “Design and Analysis of a Brain-Computer Interface-based Robotic Rehabilitation System,” November 2013.
26. Çağdaş Ulaş (Sabancı University), “Incorporation of a Language Model into a Brain-Computer Interface-based Speller,” September 2013.
27. Hamza Fawzi Altakrouy (Sabancı University), “Error Detection and New Stimulus Mechanisms in Brain-Computer Interfaces,” June 2013.
28. Adrian Aycan Corum (Sabancı University), “Fast Algorithms for Smooth and Monotone Covariance Matrix Estimation,” August 2012.
29. Ali Özgür Argunşah (Sabancı University), “An HMM-PCA Approach for EEG-Based Brain-Computer Interfaces,” March 2010.
30. Armağan Amcalar (Sabancı University), “Design, Implementation and Evaluation of a Real-time P300-based Brain-Computer Interface System,” February 2010.
31. Özge Batu (Sabancı University), “Parameter Selection in Non-quadratic Regularization-based SAR Imaging,” August 2008.
32. Gökhan Uzunbaş (Sabancı University), “Coupled Non-parametric Shape and Moment-based Inter-shape Pose Priors for Multiple Basal Ganglia Structure Segmentation,” August 2008.
33. Serhan Coşar (Sabancı University), “Facial Feature Point Tracking based on a Graphical Model Framework,” January 2008.
34. Batu Akan (Sabancı University), “Stereo-based 3D Head Pose Tracking Using the Scale Invariant Feature Transform,” January 2008.
35. Erkin Tekeli (Sabancı University), “Shape and Data Driven Texture Segmentation using Local Binary Patterns,” February 2007.
36. Kush Varshney (MIT), “Joint Anisotropy Characterization and Image Formation in Wide-Angle Synthetic Aperture Radar,” May 2006.
37. Dmitry Malioutov (MIT), “A Sparse Signal Reconstruction Perspective for Source Localization with Sensor Arrays,” July 2003.
38. Ayres Fan (MIT), “A Variational Approach to Magnetic Resonance Bias Correction,” January 2003.

## TEACHING EXPERIENCE

SABANCI UNIVERSITY, İstanbul, Turkey (2005-present)

**Assistant & Associate Professor**

Graduate courses: *Graphical Models & Bayesian Networks; Detection and Estimation Theory; Digital Image Processing; Signal Proc. for Brain Computer Interfaces (BCIs); Advanced Topics in BCIs; Advanced Topics in Radar Imaging.*

Undergraduate courses: *Signals; Introduction to Signal Processing and Information Systems; Discrete-time Signals and Systems.*

NORTHEASTERN UNIVERSITY, Boston, MA, USA (Spring 2013)

**Visiting Faculty Member**

Undergraduate course: *Linear Systems.*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA, USA (Fall 2013)

**Visiting Faculty Member**

Undergraduate course: *Introduction to EECS II: Digital Communication Systems.*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA, USA (Fall 2002)

**Research Scientist**

Undergraduate course: *Introduction to Communication, Control, and Signal Processing.*

## PROFESSIONAL ACTIVITIES

- Elected Vice-Chair, IEEE Computational Imaging Special Interest Group (2017)
- Keynote Speaker, International Workshop on Compressed Sensing Theory and its Applications to Radar, Sonar, and Remote Sensing (2015)
- Keynote Speaker, Computational Sensorics Workshop (2015)
- Technical Program Co-chair, IEEE Image, Video, and Multidim. Signal Proc. Workshop (2016)
- Technical Co-chair, International Conference on Information Fusion (2013, 2016)
- Technical Program Co-chair, International Conference on Pattern Recognition (2010)
- Technical Program Co-chair, IEEE Conf. on Signal Proc., Comm., and their Appl. (2006)
- Associate editor, IEEE Transactions on Computational Imaging (2014-present)
- Associate editor, IEEE Transactions on Image Processing (2014-2015)
- Associate editor, IEEE Signal Processing Letters (2012-2014)
- Associate editor, IEEE Transactions on Cybernetics (2012-2014)
- Guest Editor, Pattern Recognition Letters (2010-2012)
- Area editor, Journal of Advances in Information Fusion (2009-2014)
- Area chair, IEEE International Conf. on Acoustics, Speech, and Signal Processing (2014-2015)
- Area chair, IEEE International Conference on Image Processing (2015-2016)
- Elected Member, IEEE Image, Video, and Multidim. Signal Proc. Tech. Comm. (2014-present)
- Elected Member, IEEE Bioimaging and Signal Proc. Technical Comm. (2015-present)
- Member, IEEE Special Interest Group on Computational Imaging (2015-present)
- Co-organizer, EURASIP Workshop on Sparsity and Compressive Sensing (2009)
- Co-organizer, Special Session on “Advances in Sparse Signal Representation,”  
IEEE International Conference on Acoustics, Speech, and Signal Processing (2005)
- Elected Faculty Board Member, Sabancı Univ. Fac. of Eng. & Nat. Sci. (2015-present)
- University Research Council Member, Sabancı University (2011-2013)
- Conferences & Meetings Comm. Member, Int. Assoc. for Pattern Rec. (IAPR) (2013-2014)
- ICPR Liaison Committee Member, IAPR (2010-2012)
- Best paper award jury member, EURASIP Journal on Advances in Signal Proc. (2007-present)
- Best paper award jury memb., IEEE Conf. Signal Proc., Comm., and their Appl. (2006-09,11,13)
- External Accreditation Advisory Committee member, Özyeğin University, Dept. of Electrical & Electronics Eng. (2015)
- Innovation & Creativity Award jury member, Turkish Electronics Industrialists Assoc. (2012)
- The European Assoc. for Signal Proc. (EURASIP) Liaison Officer for Turkey (2009-present)
- Grant proposal reviewer or review panel member for the European Research Council (ERC), Scientific and Technological Research Council of Turkey, Turkish Academy of Sciences, Israel Science Foundation, Research Grants Council of Hong Kong.
- Session chair at the following conferences: IEEE Int. Conf. on Image Processing (ICIP), IEEE International Symposium on Biomedical Imaging (ISBI), International Conference on Information Fusion, SPIE Conference on Algorithms for Synthetic Aperture Radar Imagery, International Workshop on Compressed Sensing Theory and its Applications to Radar, Sonar, and Remote Sensing, IEEE Conf. on Signal Proc., Comm., & their Appl.



## PROFESSIONAL ACTIVITIES (continued)

- Technical Program Committee member or reviewer for the following conferences: IEEE Stat. Signal Proc. Workshop, IEEE Int. Conf. on Image Processing, IEEE Int. Conf. on Acoustics, Speech, and Signal Proc., IAPR Int. Conf. on Pattern Recognition, SPIE Conf. on Algorithms for Synthetic Aperture Radar Imagery, EURASIP European Signal Proc. Conf., Int. Workshop on Compressed Sensing Theory and its Appl. to Radar, Sonar, and Remote Sens., IEEE Int. Radar Conf., Int. Conf. on Sampling Theory and Appl., Int. Conf. on Information Fusion, IEEE Int. Symp. on Biomedical Imaging, IEEE Conf. on Signal Proc., Comm., & their Appl., IEEE Conf. Machine Learning for Signal Proc., IEEE Geoscience and Remote Sens. Symp., Int. Conf. on Imaging Theory & Applications, Int. Workshop on Machine Learning for Understanding the Brain, Int. Conf. on Bio-inspired Systems and Signal Proc., Int. Conf. on Computer Vision Theory and Appl., Int. Symp. on Computer and Information Sciences, Int. Conf. on Computer Comm. and Networks, IEEE Conf. on Computer Vision and Pattern Recog., Int. Symp. on Image and Signal Proc. and Analysis, IEEE Int. Symp. on Signal Proc. and Information Tech., Int. Workshop on Multimedia Content Represent., Classification, & Security, ACM Conference on Embedded Networked Sensor Systems, IEEE Global Telecomm. Conf.
- Technical reviewer for the following journals: IEEE Transactions on Signal Processing, IEEE Transactions on Image Processing, IEEE Signal Processing Magazine, EURASIP/Elsevier Signal Processing Journal, Inverse Problems, IEEE Signal Processing Letters, IEEE Transactions on Pattern Analysis and Machine Intelligence, Applied and Computational Harmonic Analysis, The International Journal of Computer Vision, IEEE Transactions on Biomedical Engineering, IEEE Transactions on Geoscience and Remote Sensing, IEEE Journal of Selected Topics in Signal Processing, IEEE Geoscience and Remote Sensing Letters, SPIE Journal of Electronic Imaging, Mathematical and Computer Modelling, Springer Signal, Image, and Video Processing.

## INVITED TALKS

(This list excludes invited conference paper presentations)

- “Brain Data and Imaging Sciences,” Natural Science Seminar Series, Sabancı University, İstanbul, Turkey, 2016. (Seminar Speaker)
- “Computational Radar Imaging: A Sparse Signal Representation Perspective,” Computational Sensorics Workshop, University of Siegen, Siegen, Germany, 2015. (Keynote Speaker)
- “Probabilistic Methods for Information Extraction from Uncertain Sensor Data,” Fraunhofer FHR, Wachtberg, Germany, 2015. (Colloquium Speaker)
- “Sparsity-Driven SAR Imaging: History, Computational Advances, Learning, Other Forms of Simplicity,” International Workshop on Compressed Sensing Theory and its Applications (CoSeRa), Pisa, Italy, 2015. (Keynote Speaker)
- “Probabilistic Methods for Information Extraction from Uncertain Sensor Data,” Koç University, İstanbul, Turkey, 2015. (Seminar Speaker)
- “Brain-Computer Interfaces,” the Future Seminar Series, Sabancı University, İstanbul, Turkey, 2015. (Seminar Speaker)
- “Using Computers and Robots through Brain Signals,” Family and Education Day, Sabancı University, İstanbul, Turkey, 2014. (Keynote Speaker)
- “Brain-Computer Interface-based Robotic Rehabilitation,” Mechatronics Seminar Series, Sabancı University, İstanbul, Turkey, 2014. (Seminar Speaker)
- “Information Extraction from Uncertain and Limited Sensor Data with Applications to Brain-Computer Interfaces,” Wadsworth Center, Albany, NY, USA, 2013. (Seminar Speaker)
- “Sparsity-Driven Radar Imaging,” Syracuse University, Syracuse, NY, USA, 2013. (Seminar Speaker)
- “Statistically-based Methods for Information Extraction from Uncertain Sensor Data,” Statistical Physics Days, İstanbul, Turkey, 2012. (Invited Speaker)
- “Sparsity-Driven Radar Imaging,” Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA, USA, 2012. (Invited Lecturer)
- “Nonparametric Shape and Relative Pose Priors for Image Segmentation,” EPFL, Lausanne, Switzerland, 2010. (Colloquium Speaker)
- “Sparsity and Sparse Signal Representation,” IEEE Conf. on Signal Proc., Comm., and their Appl., Dicle University, Diyarbakir, Turkey, 2010. (Invited Tutorial Lecturer)
- “Overview of Current Research on Biomedical Signal and Image Processing,” Yeditepe University Hospital, İstanbul, Turkey, 2008. (Invited Speaker)
- “A Sparse Signal Representation-based Approach to Image Formation and Anisotropy Characterization in Wide-Angle Radar,” the Ohio State University, Columbus, OH, USA, 2007. (Invited Speaker)
- “Statistical Methods for Active Contour-based Image Segmentation,” Boğaziçi University, İstanbul, Turkey, 2007. (Seminar Speaker)
- “Sparsity-Driven Feature-Enhanced Imaging,” Inst. for Mathematics and its Applications (IMA), Univ. of Minnesota, Minneapolis, MN, USA 2005. (Invited Lecturer)
- “Statistical Methods for Biomedical Image Reconstruction, Segmentation, and Artifact Suppression,” University of British Columbia, Vancouver, Canada, 2004. (Seminar Speaker)
- “Data Fusion in Large Arrays of Microsensors,” Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, NC, USA, 2003. (Invited Speaker)
- Panel on “GOTCHA: An Urban Radar Sensing Concept using UAVs,” SPIE Conf. on Algorithms for SAR Imagery, Orlando, FL, USA, 2007. (Invited Panelist)

- Panel on “Challenges in Sparse Aperture Imaging,” SPIE Conf. on Algorithms for SAR Imagery, Orlando, FL, USA, 2004. (Invited Panelist)
- Panel on “Sparse Aperture Imaging,” SPIE Conf. on Algorithms for SAR Imagery, Orlando, FL, USA, 2003. (Invited Panelist)
- Panel on “Superresolution in Radar: Myth or Reality?” SPIE Conf. on Algorithms for SAR Imagery, Orlando, FL, USA, 2002. (Invited Panelist)

## PUBLICATIONS

### Books

1. Deniz Erdoğmuş, Müjdat Çetin, and Murat Akçakaya, Noninvasive Brain Interface Design: Stochastic EEG Models for Bayesian Intent Inference. Cambridge University Press, book proposal accepted.

### Journal Papers

2. Fitsum Mesadi, Ertunç Erdil, Müjdat Çetin, and Tolga Taşdizen, “Image Segmentation using Disjunctive Normal Bayesian Shape and Appearance Models,” *IEEE Transactions on Medical Imaging*, in review.
3. Fatih Nar, O. Erman Okman, Atilla Özgür, and Müjdat Çetin, “Fast Target Detection in Radar Images using Rayleigh Mixtures and Summed Area Tables,” *Digital Signal Processing, special issue on Reproducible Research in Signal Processing*, in review. (Invited Paper)
4. Fatih Nar, O. Erman Okman, Atilla Özgür, and Müjdat Çetin, “RmSAT-CFAR: Fast and Accurate Target Detection in Radar Images,” *SoftwareX, special issue on Reproducible Research in Signal Processing*, in review. (Invited Paper)
5. Shaharyar Khwaja and Müjdat Çetin, “Compressed Sensing ISAR Reconstruction considering High Maneuvering Motion,” *Electronics, special issue on Radio and Radar Signal Processing*, in review. (Invited Paper)
6. Ozan Özdenizci, Mustafa Yalçın, Ahmetcan Erdoğan, Volkan Patoğlu, Moritz Grosse-Wentrup, and Müjdat Çetin, “Electroencephalographic Identifiers of Motor Adaptation Learning,” *Journal of Neural Engineering*, in review.
7. Ertunç Erdil, Lavdie Rada, A. Özgür Argunşah, Inbal Israely, Devrim Ünay, Tolga Taşdizen, and Müjdat Çetin, “Nonparametric Joint Shape and Feature Priors for Image Segmentation,” *IEEE Transactions on Image Processing*, in review.
8. Abdurrahim Soğanlı and Müjdat Çetin, “Adaptive Dictionaries and Low-rank Sparse Matrix Decomposition for Sparsity-driven SAR Image Reconstruction,” *IEEE Transactions on Computational Imaging, special issue on Computational Imaging for Earth Sciences*, in review.
9. Jaime Fernando Delgado Saa and Müjdat Çetin, “Bayesian Nonparametric Models for Synchronous Brain-Computer Interfaces,” *Signal, Image and Video Processing*, in review.
10. Fitsum Mesadi, Müjdat Çetin, and Tolga Taşdizen, “Disjunctive Normal Parametric Level Set With Application to Image Segmentation,” *IEEE Transactions on Image Processing*, in second review.
11. Özben Önhon and Müjdat Çetin, “SAR Moving Object Imaging Using Sparsity Imposing Priors,” *EURASIP Journal on Advances in Signal Processing, special issue on Advanced Techniques for Radar Signal Processing*, to appear.
12. M. Usman Ghani, Fitsum Mesadi, Sümeyra Demir Kanık, A. Özgür Argunşah, Anna Felicity Hobbiss, Inbal Israely, Devrim Ünay, Tolga Taşdizen, and Müjdat Çetin, “Dendritic Spine Classification using Shape and Appearance Features based on Two-Photon Microscopy,” *Journal of Neuroscience Methods*, to appear.
13. Mohammad Javad Hasankhan, Sadegh Samadi, and Müjdat Çetin, “Sparse Representation-based Algorithm for Joint SAR Image Formation and Autofocus,” *Signal, Image and Video Processing*, 2016.
14. Matt Higger, Fernando Quivira, Murat Akçakaya, Mohammad Moghadamfalahi, Hooman Nezamfar, Müjdat Çetin, and Deniz Erdoğmuş, “Recursive Bayesian Coding for BCIs,” *IEEE Transactions on Neural Systems & Rehabilitation Engineering*, 2016.
15. H. Emre Güven, Alper Güngör, and Müjdat Çetin, “An Augmented Lagrangian Method for Complex-valued Compressed SAR Imaging,” *IEEE Transactions on Computational Imaging*, 2016.

16. Dmitry M. Malioutov, Aycan A. Corum, and Müjdat Çetin, "Covariance Matrix Estimation for Interest-Rate Risk Modeling via Smooth and Monotone Regularization," *IEEE Journal of Selected Topics in Signal Processing*, 2016.
17. Jaime Fernando Delgado Saa, Adriana de Pestere, and Müjdat Çetin, "Asynchronous Decoding of Finger Movements from ECoG Signals using Long-Range Dependencies through Conditional Random Fields," *Journal of Neural Engineering*, 2016.
18. Serhan Coşar and Müjdat Çetin, "Sparsity-Driven Bandwidth-Efficient Decentralized Tracking in Visual Sensor Networks," *Computer Vision and Image Understanding*, 2015.
19. Abdurrahim Soğanlı, Özgür Erçetin, and Müjdat Çetin, "On the Quality and Timeliness of Fusion in a Random Access Sensor Network," *IEEE Signal Processing Letters*, 2015.
20. Jaime Fernando Delgado Saa, Adriana de Pestere, Dennis McFarland, and Müjdat Çetin, "Word-level Language Modeling for P300 Spellers based on Discriminative Graphical Models," *Journal of Neural Engineering*, 2015.
21. Murat Üney and Müjdat Çetin, "Optimization of Decentralized Random Field Estimation Networks Under Communication Constraints through Monte Carlo Methods," *Digital Signal Processing*, 2014.
22. Müjdat Çetin, Ivana Stojanovic, N. Özben Önhon, Kush R. Varshney, Sadegh Samadi, W. Clem Karl, Alan S. Willsky, "Sparsity-Driven Synthetic Aperture Radar Imaging," *IEEE Signal Processing Magazine*, 2014.
23. Serhan Coşar and Müjdat Çetin, "Feature Compression: A Framework for Multi-View Multi-Person Tracking in Visual Sensor Networks," *Journal of Visual Communication and Image Representation*, 2014.
24. Abdurrahim Soğanlı, Gökhan Uzunbaş, and Müjdat Çetin, "Combining Learning-based Intensity Distributions with Nonparametric Shape Priors for Image Segmentation," *Signal, Image and Video Processing*, 2014.
25. Ivana Stojanovic, Müjdat Çetin, and W. Clem Karl, "Compressed Sensing of Monostatic and Multistatic SAR," *IEEE Geoscience and Remote Sensing Letters*, 2013.
26. Jaime Fernando Delgado Saa and Müjdat Çetin, "Discriminative Methods for Classification of Asynchronous Imaginary Motor Tasks from EEG Data," *IEEE Transactions on Neural Systems & Rehabilitation Engineering*, 2013.
27. Sadegh Samadi, Müjdat Çetin, Mohammad Ali Masnadi-Shirazi "Multiple Feature-Enhanced SAR Imaging using Sparsity in Combined Dictionaries," *IEEE Geoscience and Remote Sensing Letters*, 2013.
28. Jaime Fernando Delgado Saa and Müjdat Çetin, "A Latent Discriminative Model-Based Approach for Classification of Imaginary Motor Task from EEG Data," *Journal of Neural Engineering*, 2012.
29. Özben Önhon and Müjdat Çetin, "Joint Sparsity-Driven Inversion and Model Error Correction for Radar Imaging," *IEEE Transactions on Image Processing*, 2012.
30. Ahmet Tüysüzoğlu, Jon Kracht, Müjdat Çetin, Robin Cleveland, and W. Clem Karl, "Sparsity-Driven Ultrasound Imaging," *Journal of the Acoustical Society of America*, 2012.
31. Murat Üney and Müjdat Çetin, "Monte Carlo Optimization of Decentralized Estimation Networks Over Directed Acyclic Graphs Under Communication Constraints," *IEEE Transactions on Signal Processing*, 2011.
32. Özge Batu and Müjdat Çetin, "Parameter Selection in Sparsity-driven SAR Imaging," *IEEE Trans. Aerospace and Electronic Systems*, 2011.
33. Serhan Coşar and Müjdat Çetin, "A Graphical Model based Solution to the Facial Feature Point Tracking Problem," *Elsevier Image and Vision Computing*, 2011.
34. Sadegh Samadi, Müjdat Çetin, Mohammad Ali Masnadi-Shirazi "Sparse Representation-Based SAR Imaging," *IET Radar, Sonar & Navigation*, 2011.

35. Gokhan Uzunbas, Octavian Soldea, Devrim Ünay, Müjdat Çetin, Gozde Unal, Aytül Erçil, and Ahmet Ekin, “Coupled Non-Parametric Shape and Moment-Based Inter-Shape Pose Priors for Multiple Basal Ganglia Structure Segmentation,” *IEEE Trans. Medical Imaging*, 2010.
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