Contact	Address: ** **, ** Berlin Mobile: **		
Education	 Berlin Technical University, Berlin, Germany 2015-2021 Ph.D. in Communication Engineering Thesis: Efficient Pareto Frontier Algorithms for Computing Structured Signal Representations Supervised by Prof. Sławomir Stańczak 		
	Istanbul Technical University (ITU), Istanbul, Turkey 2012-2014 M.Sc. in Communication Engineering • • Thesis: Lognormal Mixture Shadowing, Supervised by Assoc. Prof. Güneş Karabulut Kurt 2012-2014		
	Braunschweig Technical University, Braunschweig, Germany2010-2010B.Sc. in Electronics Engineering• Erasmus Exchange Program		
	Istanbul Technical University (ITU), Istanbul, Turkey2008-2012B.Sc. in Electronics Engineering2008-2012• Thesis: Analysis of ZigBee in Smart Grid Applications Supervised by Assoc. Prof. Güneş Karabulut Kurt2008-2012		
Research Interests	Wireless Communications, Signal Processing, Frame Theory, Compressed Sensing, Low-Rank Ma trix Recovery, Learning-Based Solutions (AI Approaches) for Inverse Problems in Communication Signal Processing, Convex analysis.		
Publications	[Journal] M. Vural, C. Yuan, N. Kleppmann, P. Jung and S. Stańczak, "Illinois-Type Methods for Noisy Euclidean Distance Realization," in IEEE Signal Processing Letters, vol. 29, pp. 2687- 2691, 2022, doi: 10.1109/LSP.2022.3230371.		
	[Journal] M. Vural, A. Y. Aravkin and S. Stańczak, " ℓ_1 -Norm Minimization With Regula Falsi Type Root Finding Methods," in IEEE Signal Processing Letters, vol. 28, pp. 2132-2136, 2021, doi: 10.1109/LSP.2021.3120327.		
	[Conference] M. Vural, C. Yuan, N. Kleppmann, P. Jung, "Robust Distance Matrix Completion for Localization using Frank-Wolfe Iterations," Asilomar Conference on Signals, Systems, and Computers (Asilomar), 2021		
	[Conference] M. Vural, C. Yuan, N. Kleppmann, P. Jung, "A Semidefinite Programming Approach for Obstacle Prediction and Localization," 25th International ITG Workshop on Smart Antennas (WSA), 2021 (invited paper)		
	[Conference] M. Vural, P. Jung and S. Stańczak, "Effect of anti-sparse prior on PAPR per- formance analysis," 2017 25th Signal Processing and Communications Applications Conference (SIU), 2017, pp. 1-4, doi: 10.1109/SIU.2017.7960517.		
	[Conference] M. Vural, P. Jung and S. Stańczak, "A new outlier detection method based on anti-sparse representations," 2017 25th Signal Processing and Communications Applications Conference (SIU), 2017, pp. 1-4, doi: 10.1109/SIU.2017.7960516.		
	[Conference] M. Vural, P. Jung and S. Stanczak, "On Some Physical Layer Design Aspects for Machine Type Communication," WSA 2016; 20th International ITG Workshop on Smart Antennas, 2016, pp. 1-8.		
	[Conference] Metin Vural, Güneş Karabulut Kurt, Christian Schneider, "The Effect of Shadow Fading Distributions on Outage Probability and Coverage Area," <i>IEEE Vehicular Technology Conference (VTC 2015-Spring)</i> , Glasgow, Scotland 2015.		
	[Journal] Saliha Büyükçorak, Metin Vural, Güneş Karabulut Kurt, "Lognormal Mixture Shadowing," <i>IEEE Transactions on Vehicular Technology</i> , vol.64, no.10, pp.4386-4398, Oct. 2015.		

	[Conference] Metin Vural, Pamir Erdem, and Onur Ağın, "Regr Error via EM Algorithm," <i>IEEE Conference on Signal Processing</i> <i>Applications (SIU 2014)</i> , Trabzon, April 2014.	0	
	[Conference] Metin Vural, and Güneş Karabulut Kurt, "Effect of cooperative communications on power consumption in smart grid," <i>IEEE Conference on Signal Processing, Communications,</i> <i>and their Applications (SIU 2013)</i> , Cyprus, April 2013.		
	[Conference] Zeynep Özdemir, Metin Vural, Özge Cepheli, ar mance Analysis of Wireless Sensor Networks by Using NS-2," 2013 nology and Society (EuroTecS-2013), Sarajevo, Bosnia, June 2013.		
	[Conference] N. Uçar, G. Karabulut, B. Yağcı, B. Görgün, O. C. B. Başkan, S.Cakın, C. Bozkurt, E. G. Akay, "Monitoring The V. For Temperature Sensing Sensor Networks," 5th International Tech. November 2012.	ital Signals: Smart Garment	
Publications (About to be submitted)	[Journal] M. Vural , P. Jung and S. Stańczak, " ℓ_p -norm Minimiza to be submitted to <i>IEEE Transactions on Signal Processing</i>	ation with Simple Iterations,"	
	[Journal] M. Vural et al. "Interference Management for mmWa submitted to <i>IEEE Signal Processing Letters</i>	ve Cell-less Networks," to be	
Awards And Achievements	BIDEB Graduate Priority Subject Areas Scholarship from TUBITAFor studying about priority subject areas and having inventive the stipend for 12 months.		
	 Score 95.64/100 in Quantitative part at Academic Personal and Gr (ALES) Ranked 788th among 207.564 test takers (top 0.38%) 	aduate Study Entrance Exam Nov. 20011	
Work Experience	 Fraunhofer Heinrich Hertz Institute HHI, Berlin, Germany PostDoc Research Associate Development and implementation of novel algorithms and methods and processing with application to the wireless communication 		
	 Technical University of Berlin, Berlin, Germany Research Assistant Development of multi criteria optimization strategies for signal munication networks applications. 	April 2019-October 2021 processing and wireless com-	
	Technical University of Berlin , Berlin, Germany PhD Researcher	2015-2021	
	Fraunhofer Heinrich Hertz Institute HHI, Berlin, Germany Visiting Researcher	2015-January 2022	
	 Yapı Kredi Bank (YKB), Gebze, Kocaeli Part Time Engineer at R&D Department Team member of an R&D project funded by TUBITAK on fore 	August 2013-February 2014 casting and data analysis.	
Intern Experience	 TUBITAK-The Scientific and Technological Research Cou Gebze, Kocaeli Designing, controlling and testing power conditioning units (DC of the fuel cells. 	August-September 2010	
	 WCRL-ITU Wireless Communication Research Laborator Istanbul Technical University, Istanbul Designing and simulating of ZigBee by using MATLAB/Simulir 	July 2011	
	Group Arge Energy ve Control Sistems Company,IstanbulCreating ZigBee models for Smart meter applications and performance	June-July 2012 rmance analysing	

Related Coursework	 Graduate Statistical Signal Processing Telecommunication Network Planning and Management Satellite Communication Systems Detection & Estimation Theory Information Theory Mobile and Personal Communications Image Processing Probability Theory and Stochastic Processes 		
	 Undergraduate Signals and Systems Probability & Statistics Telecommunication Engineering Basics Theory of Complex Functions Linear Algebra and Applications Calculus Communication Electronic Circuits Digital Communications Data Communications 		
Technical Skills	 Machine Learning Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, TensorFlow), Flask MLOps (Model Deployment, CI/CD, Monitoring). Development Tools AWS (SageMaker for ML workflows, Elastic Beanstalk for app deployment) HPC Cluster: Utilizing High-Performance Computing cluster for parallel computing tasks. 		
	 M C Cluster. Othizing High-1 enormance computing Others MATLAB, C, Java (Beginner), C# (Beginner), Simu 		
Certificates	IBM Data Science Professional Certificate	IBM	
	Applied Data Science Specilization	IBM	
	Machine Learning Specialization	Stanford University & DeepLearning.AI	
LANGUAGES	Turkish (Native), English (Advanced), German (Interme	ediate)	
References	Available upon request.		
Transcripts	Available upon request.		
Web Page	https://www.frontml.com (My website features/will feature a portfolio of practical projects in Applied AI.)		
Google Scholar	a https://scholar.google.de/citations?user=BV-Cv5EAAAAJ&hl=en		
ResearchGate	https://www.researchgate.net/profile/Metin-Vural		
Linkedin	https://www.linkedin.com/in/metin-vural-10876439		