Murat Sari

Nationality: Turkish | **Gender:** Male | **Phone number:** (+90) 3926305000 (Work) |

Email address: muratsari@itu.edu.tr |

Address: Namık Kemal Nbh. Fazıl Polat Paşa Ave. ITU-TRNC Education Research Campuses, Famagusta - TRNC, 99450, Türkiye (Work)

WORK EXPERIENCE

1993 – 2001 Türkiye
UNIVERSITY RESEARCH ASSISTANT PAMUKKALE UNIVERSITY

1992 – 1993 Türkiye
MATHEMATICS TEACHER IN A STATE HIGH SCHOOL

1995 – 2000
PART-TIME ENGLISH-TURKISH INTERPRETER

06/2001 – 08/2001 United Kingdom
VISITING RESEARCHER UNIVERSITY OF SOUTH WALES, DIVISION OF MATHEMATICS AND STATISTICS

2001 – 2001 Türkiye
RESEARCH ASSISTANT DOCTOR PAMUKKALE UNIVERSITY, DEPARTMENT OF MATHEMATICS

2001 – 2002 Türkiye
LECTURER DOCTOR PAMUKKALE UNIVERSITY, DEPARTMENT OF MATHEMATICS

2002 – 2012 Türkiye
ASSISTANT PROF. DR. PAMUKKALE UNIVERSITY, DEPARTMENT OF MATHEMATICS

2012 – 2015 Türkiye
ASSOCIATE PROF. DR. PAMUKKALE UNIVERSITY, DEPARTMENT OF MATHEMATICS

2015 – 2018 Türkiye
ASSOCIATE PROF. DR. YILDIZ TECHNICAL UNIVERSITY, DEPARTMENT OF MATHEMATICS

2018 – 2022 Türkiye
PROF. DR. YILDIZ TECHNICAL UNIVERSITY, DEPARTMENT OF MATHEMATICS

2022 – CURRENT Türkiye
PROF. DR. ISTANBUL TECHNICAL UNIVERSITY, MATHEMATICAL ENGINEERING

2023 – CURRENT Türkiye
ITU-TRNC EDUCATION-RESEARCH CAMPUSES RECTOR ISTANBUL TECHNICAL UNIVERSITY

EDUCATION AND TRAINING

2000 United Kingdom
PH.D University of South Wales

Thesis Seismic Wave Modelling Using the Boundary Element Method

1997 United Kingdom
MPHIL (TRANSFERRED TO PH.D.) University of South Wales

1991 Türkiye
B.SC. Ondokuz Mayis University

LANGUAGE SKILLS

Mother tongue(s):   **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ARABIC	B1	B1	B1	B1	B1
ROMANIAN	A2	A2	A2	A2	A2
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

MATLAB | MAPLE | Visual Basic | FORTRAN | C# | SPSS | SURFER

ADDITIONAL INFORMATION

PUBLICATIONS

M. Sari, S. Duran, A. Yokus and H. Durur, "Analysis of pollution concentration in a stream represented by realistic advection-diffusion-reaction-source models" (in process).

E. Yaganoglu, M. Sari and H. Uslu, "Genetic algorithm responses of advection-diffusion processes" (in process).

H. Uslu, M. Sari and T. Cosgun "Advection-diffusion processes by using deep learning" (in process) .

M. Sari, E. Yaganoglu, H. Uslu, "Genetic algorithm solutions of advection-diffusion equation" (in process) .

M. Sari, A.A. Ahmad, I. Demir, A.A. Ahmed and H. Uslu "Predicting anemia in medical systems using artificial neural networks", (in process) .

S. Yilmaz, H. Tunc and M. Sari, " Predicting HIV-1 Drug Resistance to Reverse Transcriptase Inhibitors through Artificial Neural Networks ", (in process).

E. Kurul, H. Tunc and M. Sari, "The effect of machine learning based surrogate model on epidemiological models", (in process).

F.N. Budak, H. Tunc and M. Sari, "Machine Learning Approaches for Alzheimer Disease Diagnosis",(in process).

E. Celik, H. Tunc and M. Sari, "An efficient multi-derivative numerical method for chemical boundary value problems", (Submitted).

M. Sari, S. Duran, H. Kutlu, B. Guloglu and Z. Atik, "Agricultural commodity price prediction using various optimized machine learning methods" (Submitted)

M. Sari and Z. Hassanzadeh, "Robust transition probabilities to optimize the probable error of the newly structured Monte Carlo method" (Submitted).

S.A. Tahir and M. Sari, "Comparison of GS of RD problems via unidirectional and bidirectional mechanisms" (Submitted).

M. Sari, S. Gulen and P. Celenk, "Artificial neural network simulation of authentic advection-diffusion process" (Under Review).

M. Sari, A. Yokus, S. Duran and H. Durur, "Interactional responses of mechanisms represented by reaction-diffusion processes with source effects through travelling wave solutions" (Under Review).

H. Tunc, E.O. Asan, M. Sari and E.S. Kotil, "Effect of the contact tracing and isolation policies on the basic reproduction number" (Under Review).

T. Cosgun, M. Sari, "A reversed fixed-point iteration method for the Burgers equation" (Under Review).

H. Uslu, M. Sari, "Capturing the van der Pol Oscillatory Behaviors through a Stochastic Approach" (Under Review) .

H. Tunc and M. Sari, "A novel spatial local algorithm for solving 2D and 3D advection-diffusion equations", (Under Review).

M. Sari, I.E. Yalcin, I. Demir, S. Gulen, I.I. Ozyigit "Prediction of influence factors of COVID-19 using various algorithms" (Under Review).

A. Zeytinoglu and M. Sari, "Numerical simulations of a class of nonlinear wave equations without linearization", (Under Review).

I. Demir, M. Sari, S. Gulen, A. Balacescu "Prediction of influence factors of COVID-19 deaths through artificial neural network and multiple regression algorithms" (Under Review).

H. Tunc and M. Sari, "A Novel Implicit-Explicit Local Method for Shock-Capturing with the COVID-19 Outbreak Application", (Under Review).

R. Nashebi, M. Sari and E.S. Kotil, (2023) "Mathematical modelling of drug interaction on evolution of antibiotic resistance: an analytical approach", PeerJ (Accepted)

H. Tunc, M. Sari, "A spatial local method for solving 2D and 3D advection-diffusion equations", Engineering Computations (Accepted).

S. Gulen, M. Sari and P. Celenk, "Neural network-based techniques for steep behaviour of nonlinear advection-diffusion-reaction models" (Accepted).

M. Sari, S. Gulen, P. Celenk "Artificial neural network Solutions of advection-diffusion equation with source effects" (Accepted).

H. Tunc, M. Sari and E.S. Kotil, (2023) "Effect of sojourn time distributions on the early dynamics of COVID-19 outbreak", Nonlinear Dynamics 111, 11685–11702.

H. Tunc, M. Sari and E.S. Kotil, (2023) "Machine learning aided multiscale modelling of the HIV-1 infection in the presence of NRTI therapy", PeerJ 11:e15033.

M. Sari, I.E. Yalcin, M. Taner, T. Cosgun, I.I. Ozyigit, (2023) "Forecasting contamination in an ecosystem based on a network model", Environmental Monitoring and Assessment 195:536.

H. Tunc, B. Dogan, B.N.D. Kiraz, M. Sari, S. Durdagi, S. Kotil, (2023) "Prediction of HIV-1 protease resistance using genotypic, phenotypic, and molecular information with artificial neural networks" PeerJ 11:e14987.

A.A. Ahmad, K.M. Saffer, M. Sari, H. Uslu (2023) "Prediction of anemia with a particle swarm optimization-based approach", International Journal of Optimization and Control: Theories Applications 13(2) 214-223.

S.A. Tahir and M. Sari, (2023) "A new approach for the coupled advection-diffusion processes including source effects", Applied Numerical Mathematics, 184, 391-405

M. Sari, I.E. Yalcin, M. Taner, T. Cosgun, I.I. Ozyigit, (2023) "An investigation on environmental pollution due to essential heavy metals: a prediction model through multilayer perceptrons", International Journal of Phytoremediation, 25(1), 89-97.

T. Cosgun and M. Sari, (2023) "A novel method to investigate nonlinear advection-diffusion processes", Journal of Computational and Applied Mathematics, 425, 115057.

T. Cosgun and M. Sari, (2022) "Initial data identification in advection-diffusion processes", Mathematical Methods in the Applied Sciences. 1–16.

R. Nashebi, M. Sari and E.S. Kotil, (2022) "Using a real-world network to model the trade-off between stay-at-home restriction, vaccination, social distancing and working hours on COVID-19 dynamics", PeerJ, 10:e14353

H. Tunc, M. Sari, S.H. Mussa, (2022) "A Pade-Legendre reconstruction approach in capturing shock behavior", Azerbaijan Journal of Mathematics, 12(2), 45-60.

M. Sari, H. Kocak and H. Tunc, (2022) "A space-time Chebyshev spectral collocation method for the reaction-dispersion equations with anti-kink-type waves", International Journal of Modern Physics C. 33(8), 2250104.

H. Tunc and M. Sari, (2022) "An implicit-explicit local method for parabolic partial differential equations", Engineering Computations, 39(3), pp. 1020-1037.

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M. Sari and S. Gulen, (2022) "Valuation of the American put option as a free boundary problem through a high-order difference scheme", International Journal of Nonlinear Sciences and Numerical Simulation, 23, 7-8.

S. Gulen and M. Sari, (2022) "A Fréchet derivative-based novel approach to option pricing models in illiquid markets" Mathematical Methods in the Applied Sciences, 45, 899-913.

T. Cosgun and M. Sari, (2021) "A novel approach regarding the fixed points of repelling nature", Chaos Solitons & Fractals, 153(2021),1-11.

H. Tunc and M. Sari, (2021) "A stability preserved time-integration method for nonlinear advection-diffusion-reaction processes", Journal of Mathematical Chemistry, 59, 1917–1937.

S.A. Tahir and M. Sari, (2021) "Simulations of Nonlinear Parabolic PDEs with Forcing Function without Linearization", Mathematica Slovaca, 71(3), 1-13.

H. Tunc and M. Sari, (2021) "A Stabilized Discontinuous Galerkin Method for the Nonlinear Advection-Diffusion Processes", Proceedings of the Institute of Mathematics and Mechanics, 47(1), 24–45.

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M. Sari, A.A. Ahmad, H. Uslu, (2021) "Medical Model Estimation with Particle Swarm Optimization", Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics (ESCI), 70(1), 468-482.

M.J.S. Belaghi and M. Sari, (2021) "Behaviour of the first-order q-difference equations", International Journal of Optimization and Control: Theories Applications (ESCI), 11(1), 68-74.

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S. Gulen, C. Popescu, M. Sari, (2019) "A New Approach for the Black–Scholes Model with Linear and Nonlinear Volatilities", Mathematics, 7 pp. 760.

S.A. Tahir, M. Sari, (2019) "A B-Spline-SSPRK54 Method for Advection-Diffusion Processes", Bulletin of Mathematical Analysis and Applications, 11(3), pp.1-10.

M. Sari, A.A. Ahmad, (2019) "Anemia Modelling Using the Multiple Regression Analysis", International Journal of Analysis and Applications, 17, pp.838-849.

M. Sari, S. Ali Tahir, A. Bouhamidi, (2019) "Behaviour of advection-diffusion-reaction processes with forcing terms", Carpathian Journal of Mathematics, 35(2), pp.201-220.

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M. Sari, H. Tunc, M. Seydaoglu, (2019) "Higher order splitting approaches in analysis of the Burgers equation", Kuwait Journal of Science, 46(1), pp.1-14.

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F.F. Altinoglu, M. Sari, A. Aydin, (2019) "Shallow Crust Structure of the Büyük Menderes Graben through an Analysis of Gravity Data", Turkish Journal of Earth Sciences.

U. Erdogan, M. Sari and H. Kocak, (2019) "Efficient Numerical Treatment of Nonlinearities in the Advection-Diffusion-Reaction Equations", International Journal of Numerical Methods for Heat and Fluid Flow.

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A. Zeytinoglu, M. Sari, B.P. Allahverdiev, (2018) "A Hybrid Approach for the Regularized Long Wave-Burgers Equation", International Journal of Optimization and Control: Theories & Applications, 7(2), pp.8-16.

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A. Zeytinoglu, M. Sari, B. P. Allahverdiev, (2018) "Numerical Simulations of Shock Wave Propagating by A Hybrid Approximation Based on High-order Finite Difference Schemes", Acta Physica Polonica A, 133(1), pp.369-386.

M. Sari, C. Tuna, S. Akogul, (2018) "Prediction of Tibial Rotation Pathologies Using Particle Swarm Optimization and K-Means Algorithms", Journal of Clinical Medicine, vol.7, pp.65-65.

S. Selim, G. Elver, M. Sari, (2017) "Numerical behaviour of singular two-point boundary value problems in a comparative way", International Journal of Optimization and Control: Theories & Applications, 7(3), pp.288-292.

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F.F. Altinoglu, M. Sari and A. Aydin, (2015) "Detection of Lineaments in Denizli Basin of Western Anatolia Region Using Bouguer Gravity Data", Pure and Applied Geophysics, 172, pp. 415-425..

E. Gulbandilar, M. Sari, A Cimbiz, (2015) "Prediction of low back pain using a fuzzy logic algorithm", American Journal of Biomedical Science and Engineering, 1(5), pp. 58-62.

M. Sari, A. Gunay, G. Gurarslan, (2014) "A solution to the telegraph equation by using DGJ method", International Journal of Nonlinear Science, 17(1), pp. 1757-66, 2014.

M. Sari, A. Sari, C. Popescu, (2014) "Effects of imported goods on export and import of Turkey", Annals of the Constantin Brancusi University of Targu Jiu, Economy Series, Special Issue/2014-Information Society and Sustainable Development.

A Cimbiz, M. Sari, E. Gulbandilar, (2014) "Analysis of skin resistance level on lumbar paravertebral area in low back pain patients", Journal of Qafqaz University, 2(2): 139-145.

A. Sari, M. Sari, C. Popescu, (2014) "Effects of various economic factors on Turkish imports", Economic Insights–Trends and Challenges, Vol. III (LXVI), No. 1/2014 pp.1-9.

M. Aydin, M. Sari, (2014) "Relationship between GDP and export in Turkey", Annals of the Constantin Brancusi University of Targu Jiu, Economy Series, Special Issue/2014- Information Society and Sustainable development, pp. 282-288.

I. Dag, D. Irk and M. Sari, (2013) "The extended cubic B-spline algorithm for a modified regularized long wave equation", Chinese Physics B, 22(4) 040207.

M. Adak, O. Sert, M. Kalay and M. Sari, (2013) "Symmetric Teleparallel Gravity: Some exact solutions and spinor couplings", International Journal of Modern Physics A, 28(32) 1350167 (16 pages), 2013.

G. Gurarslan, H. Karahan, D. Alkaya, M. Sari, and M. Yasar, (2013) "Numerical solution of advection-diffusion equation by using a sixth-order compact finite difference method", Mathematical Problems in Engineering,7 pages.

M. Sari, E. Gulbandilar, A. Cimbiz, (2012) "Prediction of Low Back Pain with Two Expert Systems", Journal of Medical Systems, 36, pp.1523-1527.

M. Sari, G. Gurarslan, A. Zeytinoglu, (2011) "High-order finite difference schemes for numerical solutions of the generalized Burgers–Huxley equation", Numerical Methods for Partial Differential Equations, 27(5), pp.1313-1326.

M. Sari and G. Gurarslan, (2011) "A sixth-order compact finite difference method for the one-dimensional sine-Gordon equation", Communications in Numerical Methods in Engineering, vol.27 pp.1126-1138.

G. Gurarslan, M. Sari, (2011) "Numerical solutions of linear and nonlinear diffusion equations by a differential quadrature method (DQM)", International Journal for Numerical Methods in Biomedical Engineering, 27, pp. 69–77.

M. Sari, G. Gurarslan, A. Zeytinoglu, (2011) "High-order finite difference schemes for the solution of the generalized Burgers–Fisher equation", Communications in Numerical Methods in Engineering, 27, pp. 1296–1308.

M. Sari, (2011) "Differential quadrature solutions of the generalized Burgers–Fisher equation with a strong stability preserving high-order time integration", Mathematical and Computational Applications, pp. 477-486.

M. Sari, A. Gunay, G. Gurarslan, (2011) "Approximate solutions of linear and nonlinear diffusion equations by using Daftardar-Gejji-Jafari's method", International Journal of Mathematical Modelling and Numerical Optimisation, pp. 376-386.

M. Sari, G. Gurarslan, I. Dag, (2010) "A compact finite difference method for the solution of the generalized Burgers-Fisher equation", Numerical Methods for Partial Differential Equations, pp. 25–134.

A. Canivar, M. Sari, I. Dag, (2010) "A Taylor–Galerkin finite element method for the KdV equation using cubic B-splines", Physica B, pp.3376–3383.

M. Tekkoyun, M. Sari, (2010) "Bi-para-mechanical systems on the bi-Lagrangian manifold", Physica B, pp. 2390-2393.

M. Sari, G. Gurarslan, A. Zeytinoglu, (2010) "High-order finite difference schemes for solving the advection-diffusion equation", Mathematical and Computational Applications, 15(3), pp. 449-460.

B.G. Cetiner, M. Sari, (2010) "Tibial motion assessment using artificial neural networks", Mathematical and Computational Applications, 15(3), pp. 34-44.

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H.M. Aburas, B.G. Cetiner, M. Sari, (2010) "Dengue confirmed-cases prediction: A neural network model", Expert Systems with Applications, 4256–4260 pp.

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M. Sari, G. Gurarslan, (2009) "Numerical solutions of the generalized Burgers–Huxley equation by a differential quadrature method", Mathematical Problems in Engineering, 11 pages.

U. Yucel, M. Sari, (2009) "Differential quadrature method (DQM) for a class of singular two-point boundary value problems", International Journal of Computer Mathematics, 86(3), 465–475 pp.

M. Sari, (2009) "Solution of the porous media equation by a compact finite difference method", Mathematical Problems in Engineering, 13 pages.

M. Sari, B.G. Cetiner, (2009) "Predicting effect of physical factors on tibial motion using artificial neural networks", Expert Systems with Applications, 36(6), pp. 9743–9746.

M. Sari, O. Mutlu, A. Zeytinoglu, (2009) "Effects of human and external factors on traffic accidents", Petroleum-Gas University of Ploiesti Bulletin (Mathematics-Informatics-Physics Series), pp. 9-17.

E. Gulbandilar, A. Cimbiz, M. Sari, H. Ozden, (2008) "Relationship between skin resistance level and static balance in type II diabetic subjects", Diabetes Research and Clinical Practice, 82(3), pp. 335–339.

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E.O. Oguz, E.S. Conkur, M. Sari, (2007) "SHETEREOM I Simple Windows based software for stereology. Volume and Number Estimations", Image Analysis & Stereology, 45–50.

M. Sari, I. Demir, (2006) "Wave modelling through layered media using the BEM", Journal of Applied Sciences, pp.1703-1711.

A. Cimbiz, U. Cavlak, M. Sari, H. Hallaceli, F. Beydemir, (2006) "A new clinical design measuring the vertical axial rotation through tibial shaft resulting from passive knee and subtalar joints rotation in healthy subjects: A reliability study", Journal of Medical Sciences, pp. 751–757.

M. Sari, (2003) "The time domain boundary element method for scalar wave problems", Pamukkale University Journal of Engineering Sciences, 9(1), pp. 129-136.

M. Sari, I. Demir, (2002) "Acoustic wave modelling using two different numerical methods", Pamukkale University Journal of Engineering Sciences, 8(2) pp. 211-217.

H. Tunc, M. Sari, (2021) "Multi-derivative, Multi-stage and Multi-step Time Integration Methods" In F. Evirgen, I. Kucukkoc (Eds.), Proceedings of the Second International Conference on Applied Mathematics in Engineering (ICAME'21), Balikesir, Turkey, September 1-3, pp. 103-109.

P. Celenk, S. Gulen, M. Sari, (2021) "Artificial Neural Network Solution of Advection-Diffusion Equation with Source Effects" In F. Evirgen, I. Kucukkoc (Eds.), Proceedings of the Second International Conference on Applied Mathematics in Engineering (ICAME'21), Balikesir, Turkey, September 1-3, pp. 116-123.

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T. Cosgun, M. Sari, H. Uslu, (2020) "A New Approach for the Solution of the Generalized Abel Integral Equation" in: Machado J., Ozdemir N., Baleanu D. (eds) Numerical Solutions of Realistic Nonlinear Phenomena. Nonlinear Systems and Complexity, Vol 31. Springer, Cham.

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M. Sari, T. Olcer, (2019) "MATLAB Code Production for an Implicit FDM Solution of the Burgers Equation", Prof. Dr. Önder Göçgün'ün Armağan Kitabı, Vol 2 (in Turkish).

M. Sari, Fisher's Equation, Encyclopaedia of Applied and Computational Mathematics, Springer, 2016.

M. Sari, (2015) "Ayrık Matematik ve Uygulamaları", Turkish translation of "K.H. Rosen, 2012, Discrete Mathematics and its Applications", Member of Translation Committee.

S. Toprak, E. Nacaroglu, A.C. Koc, M. Sari, U.S. Yildirim and V. Helva, "Christchurch, New Zealand Earthquake Effects on Buried Pipelines in Avonside Area", Eighth National Conference on Earthquake Engineering, 11-14 May 2015, Istanbul, Turkey (in Turkish).

C. Ergin, E.O. Oguz, I. Kaleli, M. Sari, M. Sengül, R. Kutlubay, (2006) "Alan tahmini yöntemi ile microsporum canis büyüme dinamiklerinin dört farklı besiyerinde değerlendirilmesi", Turk Mikrobiyol. Cem. Derg. 129-132 pp., (in Turkish).

M. Sari, Y.S. Murat, M. Kirabali, (2005) "Fuzzy modelling approach and applications", Dumlupinar University Journal of Institute of Sciences, 9(9), pp. 77-92.

E.O. Oguz, M. Sari, (2003) Morfometri için Tarafsız Stereoloji Neden ve Nasıl? Son İlerlemeler I, Pamukkale Tıp Dergisi, 9, pp. 58-66 (in Turkish).

E.O. Oguz, M. Sari, (2003) Morfometri için Tarafsız Stereoloji Neden ve Nasıl? Son İlerlemeler II, Pamukkale Tıp Dergisi, 9, pp. 67-76 (in Turkish).

CONFERENCES AND SEMINARS

10/05/2023 – 13/05/2023 – Yıldız Technical University, İstanbul, Turkey
E.Celik, M.Sari, H.Tunc, "A Local Taylor Series Method for Non-linear Singular Boundary Value Problems", 6th International HYBRID Conference on Mathematical Advances and Applications, (ICOMAA -2023).

10/05/2023 – 13/05/2023 – Yildiz Technical University, Istanbul, Turkey
E. Kurul, M. Sari, H. Tunc, "Numerical Investigation of Stiff Epidemiological Models ", 6th International HYBRID Conference on Mathematical Advances and Applications, (ICOMAA -2023).

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F. N. Budak, M. Sari, H. Tunc, "Machine Learning Models in the Diagnosis of Alzheimer Disease", 6th International HYBRID Conference on Mathematical Advances and Applications, (ICOMAA -2023).

10/05/2023 – 13/05/2023 – Yildiz Technical University, Istanbul, Turkey
S. Yilmaz, M. Sari, H. Tunc, "Prediction of HIV-1 Nucleoside Reverse Transcriptase Resistance with Artificial Neural Networks", 6th International HYBRID Conference on Mathematical Advances and Applications, (ICOMAA -2023).

10/05/2023 – 13/05/2023
E.O. Asan, M. Sari, E.S. Kotil, H. Tunc, "Mechanistic Modelling of Contact Tracing and Isolation Policies ", 6th International HYBRID Conference on Mathematical Advances and Applications, (ICOMAA -2023)

31/05/2022 – Elazig, Turkey
M. Sari, Panelist Speaker, "Mathematics of Behaviours", Firat University.

18/09/2021 – 20/09/2021 – Yarmouk, Jordan
M. Sari, Plenary Speaker, "Modelling Realistic Behaviours", Differential Equations: Analysis, Modeling and Numerical Computations (DEAMN-2021).

02/11/2021 – Adiyaman, Turkey
M. Sari, Panelist Speaker, "Mathematics of Behaviours", Adiyaman University.

10/09/2021 – Targu Jiu, Romania
M. Sari, Keynote Speaker, "Behaviour of Some Challenging Models", International Conference "Information Society and Sustainable Development".

01/09/2021 – 03/09/2021 – Balikesir, Turkey
T. Cosgun, M. Sari, "A Reversed Fixed-Point Iteration Method for Burgers Equation", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
S.A. Tahir, M. Sari, "A Bidirectional Generalized Synchronization of Nonlinear Advection-Diffusion-Reaction Processes", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
P. Celenk, S. Gulen, M. Sari, "Solution of First-Order Hyperbolic Partial Differential Equation Using Neural Networks", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
A.A. Ahmad, I. Salman, M. Sari, M.S. Mohammed, H. Uslu "Anemia Prediction Based on Logistic Model Tree Method", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
M. Sari, E. Yaganoglu, H. Uslu, "Genetic Algorithm Responses of Advection-Diffusion Processes", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
R.Nashebi,M.Sari,S.E.Kotil,"Household lockdowns on weekends can marginally reduce the need for contact isolation and social distancing to protect economic activity",The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
H. Tunc, M. Sari, "Multi-derivative, multi-stage and multi-step time integration methods", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
A.A. Ahmad, K.M. Saffer, M. Sari, H. Uslu, "Prediction of Anemia through Particle Swarm Optimization" The Second International Conference on Applied Mathematics in Engineering (ICAME'21) .

01/09/2021 – 03/09/2021 – Balikesir, Turkey
H. Uslu, M. Sari, "Capturing the van der Pol Oscillatory Behaviors through a Stochastic Approach", The Second International Conference on Applied Mathematics in Engineering (ICAME'21).

01/09/2021 – 03/09/2021 – Balikesir, Turkey
M.S. Mohammed, A. Kh. Abbas, M. Sari, A.A. Ahmad, H Uslu "Effects of Anemia Features on Data Mining Performances", The Second International Conference on Applied Mathematics in Engineering (ICAME'21) .

11/09/2020 – Targu Jiu, Romania
M. Sari, Keynote Speaker, "A Discussion of Economic Modelling", International Conference "Information Society and Sustainable Development".

01/11/2018 – Belgrade, Serbia
M. Sari, A. Balacescu, "Discrete Algorithms for Black Scholes Option Pricing Economic Model", Business and Applied Economics.

18/04/2017 – Marrakesh, Morocco
M. Sari, Plenary Speaker, "Modelling of Nonlinear Behaviour", The Second International Conference on Modelling and Scientific Computing in Mathematical Engineering (MOCASIM2017).

28/05/2017 – 29/05/2017 – Targu Jiu, Romania
M. Sari, C. Popescu, J. Zahradka, "Comparative Algorithms for the Black-Scholes Option Pricing Model", International Scientific Conference "Information Society and Sustainable Development", 4th Edition.

16/12/2017 – 18/12/2017 – Ploiesti, Romania
M. Sari, C. Popescu, J. Zahradka, "Numerical Behaviours of Some Option Pricing Models", European Economy and Digital Society in the Current Geopolitical Context (EEDS 2017).

10/06/2015 – 13/06/2015 – Istanbul, Turkey
S. Toprak, E. Nacaroglu, A.C. Koc, M. Sari, U.S. Yildirim, "Seismic damages in pipelines in the light of preventive maintenance", The 9th European Water Resources Association (EWRA).

24/04/2015 – 25/04/2015 – Azuga, Prahova, Romania
M. Sari, J. Zahradka, E. Dincer, "A Numerical Algorithm For Black Scholes Economic Model of American Option Pricing", Second International Scientific Symposium with theme Information Society and Sustainable Development.

24/04/2015 – 25/04/2015 – Azuga, Prahova, Romania
A. Sari, M. Sari, "Sustainable Development and Green Transport In Australia", Second International Scientific Symposium with Theme Information Society and Sustainable Development.

24/04/2015 – 25/04/2015 – Azuga, Prahova, Romania
M. Sari, A. Balacescu, M. Zaharia, "Some Numerical Algorithms for the Black Scholes Economic Model: European Option Pricing Model", Second International Scientific Symposium with theme Information Society and Sustainable Development.

24/04/2015 – 25/04/2015 – Azuga, Prahova, Romania
M. Sari, C. Popescu, E. Dincer, "Numerical Algorithms for Black Scholes Economic Model: American Option Pricing Model", Second International Scientific Symposium with theme Information Society and Sustainable Development.

28/11/2014 – 29/11/2014 – Targu Jiu, Romania
M.Sari,M.Zaharia,A.Balacescu, A comparative analysis of labour productivity from the perspective of employment: Romania vs.Turkey, Proceedings of the International Scientific Conference ECO-TREND: Performance,Competitiveness,Creativity, XIth Edition.

04/04/2014 – 05/04/2014 – Ranca, Gorj, Romania
M. Sari, A. Sari, C. Popescu, "Effects of Intermediate Goods, Capital Goods and Consumer Goods on Export and Import of Turkey", 1st International Scientific Symposium with theme Information Society and Sustainable Development.

04/04/2014 – 05/04/2014 – Ranca, Gorj, Romania
M. Aydin, M. Sari, "Relationship between GDP and Export in Turkey", 1st International Scientific Symposium with theme Information Society and Sustainable Development.

04/04/2014 – 05/04/2014 – Ranca, Gorj, Romania
S.S. Orhan, M. Sari, "Methodological Consensus in Mainstream Economics: DSGE Models, Taylor Rule", 1st International Scientific Symposium with theme Information Society and Sustainable Development.

25/11/2013 – 27/11/2013 – Antalya, Turkey
F.F. Altinoglu, A. Aydin, M. Sari, "Detecting of 3D crust model and lineaments of Denizli graben by using gravity data" The 20th International Geophysical Congress and Exhibition of Turkey.

08/11/2013 – Ploiesti, Romania
M. Ivrendi, M. Sari, The Effects of Monetary Policy Shocks on Macroeconomic Variables in Turkey and Romania, First International Workshop on "Education and Sustainable Development Within EU'28".

08/11/2013 – Ploiesti, Romania
A. Sari, M. Sari, Effects of Exchange Rate Changes and Periods of Crisis to Imports of Turkey: the Period of 1986-2013, First International Workshop on "Education and Sustainable Development within EU'28".

08/11/2013 – Ploiesti, Romania
S.S. Orhan, M. Sari, Modern Macroeconomic Consensus in the Last Three Decades, First International Workshop on "Education and Sustainable Development within EU'28".

05/11/2012 – 07/11/2012 – Denizli, Turkey
M. Sari, "Wave Modelling Using the Boundary Element Method", International Geoscience Workshop of Korea, Azerbaijan and Turkey.

11/03/2012 – 14/03/2012 – Al-Ain, UAE
M. Sari, I. Dag, "Numerical modelling of systems of partial differential equations by a high-order compact finite difference method", Fourth International Conference on Mathematical Sciences.

11/03/2012 – 14/03/2012 – Al-Ain, UAE
I. Dag, D. Irk, M. Sari, "The extended cubic B-spline algorithm for modified regularized long wave equation", Fourth International Conference on Mathematical Sciences.

07/05/2012 – 09/05/2012 – Islamabad, Pakistan
M. Sari, "2D Wave Propagation through Layered Media using the Boundary Element Method", International Workshop on Computational Methods in Mathematics, Invited-nominated Speaker.

26/05/2011 – 29/05/2011 – Denizli, Turkey
M. Sari, S.G. Kangalli, U. Uyar, "Ortalama varyansa dayalı Markowitz modeli ile optimal portföy seçimine nümerik bir yaklaşım", International Symposium on Econometrics Statistics and Operations Research.

13/05/2009 – 15/05/2009 – Karabuk, Turkey
B.G. Cetiner, M. Sari, H.M. Aburas, 5th International Advanced Technologies Symposium IATS'09 in "5th International Advanced Technologies Symposium IATS'09", "Recognition of dengue disease patterns using artificial neural networks".

11/09/2000 – 15/09/2000 – Bristol, UK
M. Sari, R.J. Wiltshire, R.W. Williams, "Two dimensional scalar waves through layered media using the time domain direct BEM", IMA Second International Conference on Boundary Integral Methods: Theory and Applications.

27/10/2022 – 28/10/2022 – Prahova, Romania
M. Sari, Creativity and Innovation in Digital Economy, Invited Speaker.

04/12/2019 – Hangzhou, China
M. Sari, Cooperation and Agreements, Zhejiang Gongshang University.

04/12/2019 – Hangzhou, China
M. Sari, Cooperation and Agreements, China Jiliang University.

05/12/2019 – Hangzhou, China
M. Sari, Cooperation and Agreements, Zhejiang International Studies University.

05/12/2019 – Hangzhou, China
M. Sari, Cooperation and Agreements, Zhejiang University of Science and Technology.

06/12/2019 – Hangzhou, China
M. Sari, Cooperation and Agreements, China Academy of Art (Xiangshan Campus).

17/12/2014 – Denizli, Turkey
M. Sari, Medical Modelling, Pamukkale University, Faculty of Medicine.

10/11/2014 – 14/11/2014 – Pardubice, Czech Republic
M. Sari, Economical Modelling, University of Pardubice.

10/11/2014 – 14/11/2014 – Pardubice, Czech Republic
M. Sari, Modelling, University of Pardubice.

05/09/2014 – 13/09/2014 – Ningbo, China
M. Sari, Seismic Wave Modelling Using the BEM, Ningbo University.

05/09/2014 – 13/09/2014 – Ningbo, China
M. Sari, Economical Modelling, Ningbo University.

15/05/2014 – 17/05/2014 – Karabuk, Turkey
T. Koparan, M. Sari, "Effects of Boundary Conditions on Scalar Wave Modelling by Using Finite Difference Method", 13th Mathematics Symposium (in Turkish).

22/01/2014 – 23/01/2014 – Toulouse, France
M. Sari, "Mathematical Modelling of Seismic Waves using the BEM", Université Toulouse III-Paul Sabatier.

16/01/2014 – Denizli, Turkey
M. Sari, "Seismic Wave Modelling", Pamukkale University (in Turkish).

10/01/2014 – Istanbul, Turkey
M. Sari, "Seismic Wave Modelling", Bogazici University (in Turkish).

19/12/2013 – Istanbul, Turkey
M. Sari, "Seismic Wave Modelling", Yildiz Technical University (in Turkish).

26/04/2013 – Kutahya, Turkey
M. Sari, "Numerical Modelling of Seismic Waves", Dumlupinar University (in Turkish).

06/2012 – Denizli, Turkey
M. Sari, "Mathematics for Children", Invited Speaker (in Turkish).

23/11/2012 – Erzincan, Turkey
M. Sari, "Mathematical Modelling of Seismic Waves", Erzincan University.

07/10/2010 – 09/10/2010 – Antakya, Hatay
M. Sari, "Artificial Intelligence Modelling and Rehabilitation", Invited Speaker, XIII. Symposium on Advances in Physiotherapy (in Turkish).

2008 – Denizli, Turkey
M. Sari, "Scalar Waves through Layered Media using the Boundary Element Method", Workshop on Differential Equations and Applications, Pamukkale University.

2007 – Denizli, Turkey
M. Sari, "Basic Biomechanical Principles of the Human Motion", Clinical and Cultural Exchange Program between Pamukkale University and Osnabruck University.

04/05/2005 – 06/05/2005 – Kutahya, Turkey
M. Sari, "Applied Mathematics and Rehabilitation", Invited Speaker, Dumlupinar University, II. Conventional Physiotherapy Seminars (in Turkish).

PROJECTS

Design and Prototype Production of Sinusoidal Reluctance Machine, TUBITAK 3501, 218E057, Project Researcher.

2014 – 2017
Boru Hatlarının Eleman ve Sistem Bazında Sağlamlık ve Güvenirlik Analizi, TUBITAK 1001, MAG 114M258, Project Researcher.

2010
Finite Difference Solutions of Fundamental Model Problems in Fluid Mechanics, Pamukkale University BAP, 2010FBE004, Project Director.

2008
Numerical Modelling of Noise Pollution in a Residential Area, Pamukkale University BAP, 2006 FEF007, Project Director.

2006
Solutions of Boundary Value Problems in Sturm-Liouville Form by Differential Quadrature Method, Pamukkale University BAP, 2006FEF008, Project Researcher.

HONOURS AND AWARDS

2021 YTU Best Ph.D. Thesis Advisory Award – Yildiz Technical University

YOK - International Graduate Grants for M.Sc. and Ph.D.

Many TUBITAK publication encouragement awards

Many publication encouragement awards

YTU publication encouragement awards – Yildiz Technical University

COMMUNICATION AND INTERPERSONAL SKILLS

Open to communication

Compatible to do academic collaboration

Attempts to create analytical thinking

Interested in international affairs

ADMINISTRATIVE DUTIES AND ACADEMIC SERVICES

2003 – 2012
Deputy Head of Department- Pamukkale University, Department of Mathematics

2004 – 2004
Head of Division of Topology

2005 – 2013
International Relations Departmental Coordinator - Pamukkale University, Department of Mathematics

2010 – 2015
Science Ambassador of Pamukkale University to Peroleum-Gas University of Ploiesti, Romania

2014 – 2015
Deputy Coordinator of International Relations of Pamukkale University

2015 – 2018
International Relations Departmental Coordinator- Yildiz Technical University

2018 – 2019
International Relations Vice Coordinator- Yildiz Technical University

2019 – 2020
International Relations Coordinator- Yildiz Technical University

2022 – CURRENT
Erasmus Coordinator- Istanbul Technical University

2023 – CURRENT
Head of Mathematical Engineering- Istanbul Technical University

RESEARCH INTERESTS

Artificial Intelligence Modelling

Computational Methods

Numerical Methods

Modelling of Nonlinear Behaviours

Biomechanical/Biomedical/Medical Modelling

Economical Modelling

Heuristic Methods

Numerical Solutions of Differential Equations

SUPERVISED M.SC. DISSERTATIONS

2005
T. Koparan, Scalar Wave Modelling Using Numerical Methods, Pamukkale University, Denizli

2006
S. Yildirim, Time Integrals in Boundary Element Method, Pamukkale University, Denizli

2008

S. Salinan, Heat Conduction Modelling Using the Differential Transform Method, Pamukkale University Denizli

2010

A. Gunay, Finite Difference Solutions of Fundamental Model Problems of Fluid Dynamics, Pamukkale University, Denizli

2010

A. Zeytinoglu, Some Approximate Solutions of Burgers Equations, Suleyman Demirel University, Isparta (Co-supervisor)

2015

E. Dincer, Solution of Burgers Equation by Various Finite Difference Schemes, Pamukkale University, Denizli

2016

T. Yildirim, Various Finite Difference Solutions of Option Pricing Models, Yildiz Technical University, Istanbul

2016

J.M.L. Almashhadani, Numerical Behaviour of Advection-Diffusion Equation, Yildiz Technical University, Istanbul

2017

M. Bayraktar, Solution of Burgers Equation by Petrov-Galerkin Finite Element Method, Pamukkale University, Denizli

2017

H. Tunc, Various Finite Element Techniques for Advection-Diffusion-Reaction Processes, Yildiz Technical University, Istanbul

2018

H. Uslu, Behaviour of First Order Differential Equations through a Monte Carlo Based Algorithm, Yildiz Technical University

2019

E. Kasap, Hepatitis B Modelling Using Genetic Algorithm, Yildiz Technical University, Istanbul

2019

S. Hamad Mussa, Numerical Discussions of Advection Diffusion Models, Yildiz Technical University, Istanbul

2020

H. Sav, Krylov Subspace Methods for Algebraic Equation Systems, Yildiz Technical University, Istanbul

2022

R. Nashebi, Effects of Various Parameters on the Containment of Pandemics, Yildiz Technical University, Istanbul

2022

P. Celenk, Artificial Intelligence Solutions of Advection-Diffusion-Reaction Equations, Yildiz Technical University, Istanbul

2022

E. Yaganoglu, Genetic Algorithm Responses of Advection Diffusion Processes, Yildiz Technical University, Istanbul

2023

S. Yilmaz, Predicting HIV1 Drug Resistance of Reverse Transcriptase Inhibitors Using Artificial Neural Networks, Yildiz Technical University, Istanbul

2023

E.O. Asan, Effects of Conctact Tracing and Isolation Policies on the Basic Reproduction Number of COVID19 Outbreak, Yildiz Technical University, Istanbul

2023
F.N. Budak, Diagnosing Alzheimer Disease Using Machine Learning Models, Yildiz Technical University, Istanbul

2023 – CURRENT
M. Ozcan, Istanbul Technical University

SUPERVISED PH.D. DISSERTATIONS

2017
A. Zeytinoglu, Hybrid Approaches for Computational Fluid Dynamics, Suleyman Demirel University, Isparta (Co-supervisor)

2020
A.A. Ahmad, Mathematical Modelling to Predict the Anemia Based on Medical Data, Yildiz Technical University, Istanbul

2020
S.A. Tahir, Numerical and Synchronizational Behavior of Some Evolution Equations, Yildiz Technical University, Istanbul

2021
H. Tunc, An Implicit-Explicit Local Method for Stiff Differential Equations, Yildiz Technical University, Istanbul

2022
T. Cosgun, Unstable Equilibria of Some Dynamical Systems, Yildiz Technical University, Istanbul

CURRENT
H. Uslu, Yildiz Technical University

CURRENT
E. Celik, Yildiz Technical University

CURRENT
E. Kurul, Yildiz Technical University

CURRENT
R. Nashebi, Yildiz Technical University

CURRENT
S. Yilmaz, Istanbul Technical University

CURRENT
F.N. Budak, Istanbul Technical University

CURRENT
E.O. Asan, Istanbul Technical University

MEMBERSHIP OF SCIENTIFIC/ORGANIZING COMMITTEE

31/07/2023 – 02/08/2023
International Conference on Nano Electronics Research and Education Faraday Turing Schmitt International Conference (ICNERE – FTS IC 2023), Labuan Bajo, East Nusa Tenggara, Indonesia.

15/06/2023 – 16/06/2023
"Resilience and competitiveness of the national economies - under the sign of creativity, crisis and conflicts" - RESILNAT-3C, Bucharest, Romania.

27/04/2023 – 28/04/2023
International Conference "Information Society and Sustainable Development" (ISSD 2023), Valletta, Malta.

27/10/2022 – 28/10/2022
Creativity and Innovation in Digital Economy (CIDE 2022), Prahova, Romania.

10/09/2021 – 11/09/2021
International Conference "Information Society and Sustainable Development", Targu Jiu, Romania.

01/09/2021 – 03/09/2021
ICAME'21: Second International Conference on Applied Mathematics in Engineering, Balikesir, Turkey (A Special Session: Computational Methods for Treatment of Linear and Nonlinear Models).

26/05/2021 – 29/05/2021
ICOMAA 2021: 4th International E-Conference on Mathematical Advances and Applications, Yildiz Technical University, Istanbul, Turkey.

11/09/2020 – 12/09/2020
International Conference "Information Society and Sustainable Development", Targu Jiu, Romania.

24/06/2020 – 27/06/2020
3rd International E-Conference on Mathematical Advances and Applications, Yildiz Technical University, Istanbul, Turkey.

10/05/2019 – 11/05/2019
International Conference VIth Edition, Information Society and Sustainable Development, Targu Jiu, Gorj, Romania.

27/06/2018 – 29/06/2018
International Conference on Applied Mathematics in Engineering (ICAME'18) Burhaniye, Turkey.

17/04/2017 – 20/04/2017
The Second International Conference on Modelling and Scientific Computing in Mathematical Engineering (MOCASIM2017), Marrakesh, Morocco.

14/05/2015 – 16/05/2015
14th Mathematics Symposium, Nigde University, Nigde, Turkey.

24/04/2015 – 25/04/2015
International Scientific Symposium 2st Edition, Information Society and Sustainable Development, Azuga, Romania.

15/05/2014 – 17/05/2014
13th Mathematics Symposium, Karabuk University, Karabuk, Turkey.

04/04/2014 – 05/04/2014
International Scientific Symposium 1st Edition, Information Society and Sustainable Development, Ranca, Gorj, Romania.

23/05/2013 – 25/05/2013
12th Mathematics Symposium, Hacettepe University, Ankara, Turkey.

18/04/2008 – 20/04/2008
Workshop on Differential Equations and Applications, Pamukkale University, Denizli.

INTERNATIONAL JOURNALS REFEREEING (RECENTLY)

Medical and Biological Engineering and Computing

Turkish Journal of Mathematics

Journal of Sports Science and Medicine

IET Intelligent Transport Systems

Mathematical Problems in Engineering

International Journal for Numerical Methods in Fluids

Numerical Methods for Partial Differential Equations

Neural Computing and Applications

International Journal of Computer Mathematics

Applied Mathematical Modelling

Turkish Journal of Mathematics

Boundary Value Problems

Applicable Analysis

ANZIAM Journal

Expert Systems

Computer Physics Communications

Applied Mathematics and Computation

Computer Methods and Programs in Biomedicine

Computer Applications in Engineering Education

African Journal of Agricultural Research

International Journal of Nonlinear Science

Journal of Computational Science

Bulletin of the Malaysian Mathematical Sciences Society

Engineering Applications of Artificial Intelligence

Advances in Engineering Software

International Journal of Modern Mathematical Sciences

EDITOR

Journal of Applied and Computational Sciences

Computational and Mathematical Methods in Medicine

Journal of Artificial Intelligence

Journal of Applied Sciences

Journal of New Theory

Singaporean Journal of Scientific Research

Journal of Applied Computer Science & Mathematics

PROJECT REFEREEING

2012
TUBITAK project refereeing

2015
TUBITAK project refereeing (2)

2016
TUBITAK project refereeing (2)

2018
TUBITAK project refereeing (2)

2019
Various Institutions

2021
TUBITAK project refereeing

2021
ITU project refereeing (2)

UNIVERSITIES ATTENDED FOR CONFERENCE/SEMINAR/LECTURE UNDER VARIOUS PROGRAMS

2007
Bielefeld University, Germany

2009
Petroleum-Gas University of Ploieşti, Romania

2010
Petroleum-Gas University of Ploieşti, Romania

2013
Petroleum-Gas University of Ploieşti, Romania

2013
Yildiz Technical University, Istanbul, Turkey, "Modelling of Seismic Waves"

2012
Pardubice University, Czech Republic

2014
Pardubice University, Czech Republic

2014
Université Toulouse III - Paul Sabatier, France

2014
Czech Technical University in Prague, Czech Republic

03/09/2014 – 13/09/2014
Ningbo University, Ningbo, China

16/09/2014 – 19/09/2014
EAIE Prague, The 26th Annual EAIE Conference, Czech Republic, "Stepping into a New Era"

2018
Pamukkale University, Denizli, Turkey, "Economical Modelling"

2019
Firat University, Elazig, Turkey, "Mathematical Modelling and Applications in Engineering"

2019
TÜBITAK Bilim Söyleşileri, Konya, Turkey, "Deciding on a Scientific Problem"

2021
Adiyaman University, Adiyaman, Turkey, "Mathematics of Behaviours"

IN RECENT YEARS UNDERGRADUATE/GRADUATE COURSES

Advanced Computer Programming

Partial Differential Equations and Applications

Differential Equations

Mathematical Economics

Applied Numerical Methods

Econometric and Statistical Software