

Prof.Dr. BÜLENT KARASÖZEN

Kişisel Bilgiler

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Yönetilen Tezler

- KARASÖZEN B., Electricity load and price forecasting of Turkish electricity markets, Yüksek Lisans, O.KALAY(Öğrenci), 2018
- KARASÖZEN B., Optimal control and reduced order modelling of fitzhugh-nagumo equation, Doktora, T.KÜÇÜKSEYHAN(Öğrenci), 2017
- KARASÖZEN B., Numerical solution of semi-linear advection-diffusion-reaction equations by discontinuous Galerkin methods, Yüksek Lisans, S.YILDIZ(Öğrenci), 2016
- RAFATOV İ., KARASÖZEN B., Numerical modelling of spatio-temporal patterns in a DC-driven gas discharge-semiconductor system, Yüksek Lisans, G.ÖZDEN(Öğrenci), 2015
- KARASÖZEN B., Discontinuous Galerkin finite elements method with structure preserving time integrators for gradient flow equations, Doktora, A.SARIAYDIN(Öğrenci), 2015
- KARASÖZEN B., Local improvements to reduced-order approximations of pde-constrained optimization problems, Doktora, T.AKMAN(Öğrenci), 2015
- KARASÖZEN B., Numerical simulation of advective Lotka-Volterra systems by discontinuous Galerkin method, Yüksek Lisans, S.AKTAŞ(Öğrenci), 2015
- KARASÖZEN B., Numerical solution of the fisher's equation with discontinuous galerkin method, Yüksek Lisans, F.ÖZSOY(Öğrenci), 2015
- YÜCEL H., KARASÖZEN B., Multigrid methods for optimal control problems governed by convection-diffusion equations, Yüksek Lisans, Ö.MURAT(Öğrenci), 2015
- KARASÖZEN B., Adaptive discontinuous Galerkin methods for non-linear reactive flows, Doktora, M.UZUNCA(Öğrenci), 2014
- KARASÖZEN B., Solving optimal control time-dependent diffusion-convection-reaction equations by space time discretization, Doktora, Z.SEYMEN(Öğrenci), 2013
- KARASÖZEN B., Derivative free algorithms for large scale non-smooth optimization and their applications, Doktora, A.HAKAN(Öğrenci), 2013
- KARASÖZEN B., Adaptive discontinuous Galerkin methods for convection dominated optimal control problems, Doktora, H.YÜCEL(Öğrenci), 2012
- KARASÖZEN B., Discontinuous Galerkin methods for time-dependent convection dominated optimal control problems, Yüksek Lisans, T.AKMAN(Öğrenci), 2011
- KARASÖZEN B., Space-time discretization of optimal control of Burgers equation using both discretize-then-optimize and optimize-then-discretize approaches, Doktora, F.NURAY(Öğrenci), 2011
- KARASÖZEN B., Energy preserving methods for Kortewe de Vries type equations, Yüksek Lisans, G.ŞİMŞEK(Öğrenci), 2011
- KARASÖZEN B., A semismooth newton method for generalized semi-infinite programming problems, Doktora, A.TEZEL(Öğrenci), 2010
- KARASÖZEN B., Parameter estimation in generalized partial linear models with tikhanov regularization, Yüksek Lisans, B.KAYHAN(Öğrenci), 2010
- KARASÖZEN B., Computation and analysis of spectra of large networks with directed graphs, Yüksek Lisans, A.SARIAYDIN(Öğrenci), 2010
- KARASÖZEN B., Parameter estimation in generalized partial linear models with conic quadratic programming, Yüksek Lisans, G.ÇELİK(Öğrenci), 2010

KARASÖZEN B., Computation and analysis of spectra of large undirected networks, Yüksek Lisans, Ö.ERDEM(Öğrenci), 2010

UĞUR Ö., KARASÖZEN B., Derivative free multilevel optimization methods, Yüksek Lisans, B.PEKMEN(Öğrenci), 2009

ULUDAĞ Y., KARASÖZEN B., Numerical investigation of the viscoelastic fluids, Doktora, K.YAPICI(Öğrenci), 2008

KARASÖZEN B., Statistical learning and optimization methods for improving the efficiency in landscape image clustering and classification problems, Yüksek Lisans, S.GÜROL(Öğrenci), 2005

KARASÖZEN B., Geometric integrators for coupled nonlinear Schrödinger equation, Doktora, A.AYDIN(Öğrenci), 2005

KARASÖZEN B., Smooth and nonsmooth newton methods for solving semi-infinite programming, Yüksek Lisans, A.TEZEL(Öğrenci), 2005

KARASÖZEN B., Mathematical modelling of enzymatic reactions, simulation and parameter estimation, Yüksek Lisans, S.ÖZÖĞÜR(Öğrenci), 2005

KARASÖZEN B., Derivative free optimization methods: Application in stirrer configuration and data clustering, Yüksek Lisans, B.AKTEKE(Öğrenci), 2005

KARASÖZEN B., Analysis and prediction of gene expression patterns by dynamical systems, and by a combinatorial algorithm, Yüksek Lisans, M.TAŞTAN(Öğrenci), 2005

KARASÖZEN B., Numerical bifurcation analysis of cosymmetric dynamical systems, Yüksek Lisans, Ö.CANER(Öğrenci), 2003

KARASÖZEN B., Multi-symplectic pseudospectral methods for nonlinear Schrödinger equation, Yüksek Lisans, Z.GEÇMEN(Öğrenci), 2002

KARASÖZEN B., Numerical integration of constrained hamiltonian systems, Yüksek Lisans, B.GÜRTUNCA(Öğrenci), 1999

KARASÖZEN B., Poisson integrators for completely integrable hamiltonian systems, Yüksek Lisans, A.AYDIN(Öğrenci), 1998

KARASÖZEN B., Modified stationary iterative for linear systems of equations, Doktora, A.YAŞAR(Öğrenci), 1996

KARASÖZEN B., Numerical solutions of hamiltonian systems in normal form, Yüksek Lisans, C.ÇELİK(Öğrenci), 1993

KARASÖZEN B., Multigrid methods for the solutions of vector equations, Yüksek Lisans, U.SALİH(Öğrenci), 1992

KARASÖZEN B., Iterated defect correction methods for semi-explicit differential-algebraic equations, Doktora, Ş.SOMALI(UZUNER)(Öğrenci), 1990

KARASÖZEN B., Adaptive moving grid methods quasilinear parabolic systems, Yüksek Lisans, A.AL(Öğrenci), 1989

KARASÖZEN B., Collocation methods for linear two point boundary value problems by using monomial basis, Yüksek Lisans, A.ABUSAMAN(Öğrenci), 1987

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Pricing European and American options under Heston model using discontinuous Galerkin finite elements**
KOZPINAR S., UZUNCA M., KARASÖZEN B.
MATHEMATICS AND COMPUTERS IN SIMULATION, cilt.177, ss.568-587, 2020 (SCI İndekslerine Giren Dergi)
- **Structure preserving model order reduction of shallow water equations**
KARASÖZEN B., Yıldız S., UZUNCA M.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 2020 (SCI İndekslerine Giren Dergi)
- **Reduced order optimal control of the convective FitzHugh-Nagumo equations**
KARASÖZEN B., UZUNCA M., KÜÇÜKSEYHAN T.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.79, ss.982-995, 2020 (SCI İndekslerine Giren Dergi)
- **Distributed optimal control of viscous Burgers' equation via a high-order, linearization, integral, nodal discontinuous Gegenbauer-Galerkin method**
Elgindy K. T. , KARASÖZEN B.
OPTIMAL CONTROL APPLICATIONS & METHODS, cilt.41, ss.253-277, 2020 (SCI İndekslerine Giren Dergi)
- **High-order integral nodal discontinuous Gegenbauer-Galerkin method for solving viscous Burgers' equation**
Elgindy K. T. , KARASÖZEN B.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.96, ss.2039-2078, 2019 (SCI İndekslerine Giren Dergi)

● **Structure preserving reduced order modeling for gradient systems**

Akman Yildiz T., UZUNCA M., KARASÖZEN B.

● APPLIED MATHEMATICS AND COMPUTATION, cilt.347, ss.194-209, 2019 (SCI İndekslerine Giren Dergi)

● **Energy preserving model order reduction of the nonlinear Schrodinger equation**

KARASÖZEN B., UZUNCA M.

● ADVANCES IN COMPUTATIONAL MATHEMATICS, cilt.44, ss.1769-1796, 2018 (SCI İndekslerine Giren Dergi)

● **Energy Stable Discontinuous Galerkin Finite Element Method for the Allen-Cahn Equation**

KARASÖZEN B., Uzunca M., Sariaydin-Filibelioglu A., YÜCEL H.

● INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, cilt.15, 2018 (SCI İndekslerine Giren Dergi)

● **Structure preserving integration and model order reduction of skew-gradient reaction-diffusion systems**

KARASÖZEN B., Kucukseyhan T., Uzunca M.

● ANNALS OF OPERATIONS RESEARCH, cilt.258, ss.79-106, 2017 (SCI İndekslerine Giren Dergi)

● **Energy Stable Interior Penalty Discontinuous Galerkin Finite Element Method for Cahn-Hilliard Equation**

Sariaydin-Filibelioglu A., KARASÖZEN B., Uzunca M.

INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, cilt.18, ss.303-314, 2017 (SCI İndekslerine Giren Dergi)

● **Optimal control of convective FitzHugh-Nagumo equation**

Uzunca M., Kucukseyhan T., YÜCEL H., KARASÖZEN B.

● COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.73, ss.2151-2169, 2017 (SCI İndekslerine Giren Dergi)

● **Moving mesh discontinuous Galerkin methods for PDEs with traveling waves**

UZUNCA M., KARASÖZEN B., Kucukseyhan T.

● APPLIED MATHEMATICS AND COMPUTATION, cilt.292, ss.9-18, 2017 (SCI İndekslerine Giren Dergi)

● **Quantification of Type, Timing, and Extent of Cell Body and Nucleus Deformations Caused by the Dimensions and Hydrophilicity of Square Prism Micropillars**

Hasturk O., Sivas A., KARASÖZEN B., Demirci U., Hasirci N., HASIRCI V. N.

● ADVANCED HEALTHCARE MATERIALS, cilt.5, ss.2972-2982, 2016 (SCI İndekslerine Giren Dergi)

● **Model order reduction for nonlinear Schrodinger equation**

KARASÖZEN B., Akkoyunlu C., Uzunca M.

● APPLIED MATHEMATICS AND COMPUTATION, cilt.258, ss.509-519, 2015 (SCI İndekslerine Giren Dergi)

● **Variational time discretization methods for optimal control problems governed by diffusion-convection-reaction equations**

Akman T., Karasozen B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.272, ss.41-56, 2014 (SCI İndekslerine Giren Dergi)

● **Adaptive discontinuous Galerkin methods for non-linear diffusion-convection-reaction equations**

UZUNCA M., KARASÖZEN B., Manguoglu M.

● COMPUTERS & CHEMICAL ENGINEERING, cilt.68, ss.24-37, 2014 (SCI İndekslerine Giren Dergi)

● **Optimal boundary control of the unsteady Burgers equation with simultaneous space-time discretization**

KARASÖZEN B., YILMAZ F. N.

● OPTIMAL CONTROL APPLICATIONS & METHODS, cilt.35, ss.423-434, 2014 (SCI İndekslerine Giren Dergi)

● **Distributed optimal control of time-dependent diffusion-convection-reaction equations using space-time discretization**

Seymen Z. K., YÜCEL H., KARASÖZEN B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.261, ss.146-157, 2014 (SCI İndekslerine Giren Dergi)

● **A priori error analysis of the upwind symmetric interior penalty Galerkin (SIPG) method for the**

optimal control problems governed by unsteady convection diffusion equations

AKMAN T., Yucel H., KARASÖZEN B.

COMPUTATIONAL OPTIMIZATION AND APPLICATIONS, cilt.57, ss.703-729, 2014 (SCI İndekslerine Giren Dergi)

● **Aggregate codifferential method for nonsmooth DC optimization**

Tor A. H. , Bagirov A., KARASÖZEN B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.259, ss.851-867, 2014 (SCI İndekslerine Giren Dergi)

● **An all-at-once approach for the optimal control of the unsteady Burgers equation**

Yilmaz F., KARASÖZEN B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.259, ss.771-779, 2014 (SCI İndekslerine Giren Dergi)

● **Adaptive Symmetric Interior Penalty Galerkin (SIPG) method for optimal control of convection diffusion equations with control constraints**

Yucel H., Karasozen B.

OPTIMIZATION, cilt.63, ss.145-166, 2014 (SCI İndekslerine Giren Dergi)

● **Energy preserving integration of bi-Hamiltonian partial differential equations**

KARASÖZEN B., Simsek G.

APPLIED MATHEMATICS LETTERS, cilt.26, ss.1125-1133, 2013 (SCI İndekslerine Giren Dergi)

● **Staggered grids for three-dimensional convection of a multicomponent fluid in a porous medium**

KARASÖZEN B., Nemtsev A. D. , Tsybulin V. G.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.64, ss.1740-1751, 2012 (SCI İndekslerine Giren Dergi)

● **Numerical Analysis of Viscoelastic Fluids in Steady Pressure-Driven Channel Flow**

YAPICI K., KARASÖZEN B., ULUDAĞ Y.

JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, cilt.134, 2012 (SCI İndekslerine Giren Dergi)

● **Natural convection in porous annular domains: Mimetic scheme and family of steady states**

KARASÖZEN B., Trofimova A. V. , Tsybulin V. G.

JOURNAL OF COMPUTATIONAL PHYSICS, cilt.231, ss.2995-3005, 2012 (SCI İndekslerine Giren Dergi)

● **Optimization of Supply Chain Systems with Price Elasticity of Demand**

Kaplan U., TÜRKAY M., KARASÖZEN B., Biegler L. T.

INFORMS JOURNAL ON COMPUTING, cilt.23, ss.557-568, 2011 (SCI İndekslerine Giren Dergi)

● **Solving optimal control problems for the unsteady Burgers equation in COMSOL Multiphysics**

YILMAZ F. N. , KARASÖZEN B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.235, ss.4839-4850, 2011 (SCI İndekslerine Giren Dergi)

● **Lobatto IIIA-IIIB discretization of the strongly coupled nonlinear Schrodinger equation**

AYDIN A., KARASÖZEN B.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.235, ss.4770-4779, 2011 (SCI İndekslerine Giren Dergi)

● **Classification through incremental max-min separability**

Bagirov A. M. , Ugon J., Webb D., KARASÖZEN B.

PATTERN ANALYSIS AND APPLICATIONS, cilt.14, ss.165-174, 2011 (SCI İndekslerine Giren Dergi)

● **Multisymplectic box schemes for the complex modified Korteweg-de Vries equation**

AYDIN A., KARASÖZEN B.

JOURNAL OF MATHEMATICAL PHYSICS, cilt.51, 2010 (SCI İndekslerine Giren Dergi)

● **Finite volume simulation of viscoelastic laminar flow in a lid-driven cavity**

Yapici K., KARASÖZEN B., ULUDAĞ Y.

JOURNAL OF NON-NEWTONIAN FLUID MECHANICS, cilt.164, ss.51-65, 2009 (SCI İndekslerine Giren Dergi)

● **Hybrid systems: Modeling, simulation and optimization**

Turkay M., KARASÖZEN B., Biegler L. T. , McAvoy T. J.

JOURNAL OF PROCESS CONTROL, cilt.19, ss.1217, 2009 (SCI İndekslerine Giren Dergi)

● **A model of angiogenesis by hybrid systems with delay on the piecewise constant part**

KARASÖZEN B., Oktem H., Kahraman M.

JOURNAL OF PROCESS CONTROL, cilt.19, ss.1257-1264, 2009 (SCI İndekslerine Giren Dergi)

● **Portrait of a Consortium: ANKOS (Anatolian University Libraries Consortium)**

ERDOĞAN P. L. , KARASÖZEN B.

JOURNAL OF ACADEMIC LIBRARIANSHIP, cilt.35, ss.377-385, 2009 (SSCI İndekslerine Giren Dergi)

● **Modeling and simulation of metabolic networks for estimation of biomass accumulation parameters**

Kaplan U., TÜRKAY M., Biegler L., KARASÖZEN B.

JOURNAL OF DISCRETE APPLIED MATHEMATICS, cilt.157, ss.2483-2493, 2009 (SCI İndekslerine Giren Dergi)

● **Multi-symplectic integration of coupled non-linear Schrodinger system with soliton solutions**

AYDIN A., KARASÖZEN B.

JOURNAL OF INTERNATIONAL COMPUTER MATHEMATICS, cilt.86, ss.864-882, 2009 (SCI İndekslerine Giren Dergi)

● **Destruction of the family of steady states in the planar problem of Darcy convection**

Tsybulin V. G. , KARASÖZEN B.

JOURNAL OF PHYSICS LETTERS A, cilt.372, ss.5639-5643, 2008 (SCI İndekslerine Giren Dergi)

● **Numerical investigation of the effect of the Rushton type turbine design factors on agitated tank flow characteristics**

Yapici K., KARASÖZEN B., Schaefer M., ULUDAĞ Y.

JOURNAL OF CHEMICAL ENGINEERING AND PROCESSING, cilt.47, ss.1346-1355, 2008 (SCI İndekslerine Giren Dergi)

● **Symplectic and multisymplectic Lobatto methods for the "good" Boussinesq equation**

AYDIN A., KARASÖZEN B.

JOURNAL OF MATHEMATICAL PHYSICS, cilt.49, 2008 (SCI İndekslerine Giren Dergi)

● **Staggered grids discretization in three-dimensional Darcy convection**

KARASÖZEN B., Nemtsev A. D. , Tsybulin V. G.

JOURNAL OF COMPUTER PHYSICS COMMUNICATIONS, cilt.178, ss.885-893, 2008 (SCI İndekslerine Giren Dergi)

● **Discrete gradient method: Derivative-free method for nonsmooth optimization**

Bagirov A. M. , KARASÖZEN B., Sezer M.

JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, cilt.137, ss.317-334, 2008 (SCI İndekslerine Giren Dergi)

● **Challenges of continuous optimization in theory and applications**

Duer M., Karasozen B., Weber G.

JOURNAL OF EUROPEAN OPERATIONAL RESEARCH, cilt.181, ss.1065-1068, 2007 (SCI İndekslerine Giren Dergi)

● **Survey of trust-region derivative free optimization methods**

Karasozen B.

JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, cilt.3, ss.321-334, 2007 (SCI İndekslerine Giren Dergi)

● **Optimization in data mining**

Karasozen B., Rubinov A., Weber G.

JOURNAL OF EUROPEAN OPERATIONAL RESEARCH, cilt.173, ss.701-704, 2006 (SCI İndekslerine Giren Dergi)

● **Selection of steady states in planar Darcy convection**

Tsybulin V. G. , Karasozen B., Ergenc I.

JOURNAL OF PHYSICS LETTERS A, cilt.356, ss.189-194, 2006 (SCI İndekslerine Giren Dergi)

● **Poisson integrators for Volterra lattice equations**

Ergenc T., Karasozen B.

JOURNAL OF APPLIED NUMERICAL MATHEMATICS, cilt.56, ss.879-887, 2006 (SCI İndekslerine Giren Dergi)

● **Feature cluster "Advances in continuous optimization"**

Karasozen B., Weber G., Pinar M., Terlaky T.

JOURNAL OF EUROPEAN OPERATIONAL RESEARCH, cilt.169, ss.1077-1078, 2006 (SCI İndekslerine Giren Dergi)

● **Numerical method for optimizing stirrer configurations**

Schafer M., KARASOZEN B., ULUDAĞ Y., YAPICI K., Ugur O.

JOURNAL OF COMPUTERS & CHEMICAL ENGINEERING, cilt.30, ss.183-190, 2005 (SCI İndekslerine Giren Dergi)

● **Cosymmetry preserving finite-difference methods for convection equations in a porous medium**

Karasozen B., Tsybulin V.

APPLIED NUMERICAL MATHEMATICS, cilt.55, ss.69-82, 2005 (SCI İndekslerine Giren Dergi)

● **Mimetic discretization of two-dimensional Darcy convection**

Karasozen B., Tsybulin V.

COMPUTER PHYSICS COMMUNICATIONS, cilt.167, ss.203-213, 2005 (SCI İndekslerine Giren Dergi)

● **Poisson integrators**

Karasozen B.

MATHEMATICAL AND COMPUTER MODELLING, cilt.40, ss.1225-1244, 2004 (SCI İndekslerine Giren Dergi)

● **Cosymmetric families of steady states in Darcy convection and their collision**

Karasozen B., Tsybulin V.

PHYSICS LETTERS A, cilt.323, ss.67-76, 2004 (SCI İndekslerine Giren Dergi)

● **Invariant reduction of partially potential branching equations and iterative methods in the problem on a bifurcation point with a symmetry**

Karasozen B., Loginov B.

DIFFERENTIAL EQUATIONS, cilt.40, ss.410-419, 2004 (SCI İndekslerine Giren Dergi)

● **Invariant manifolds and Grobman-Hartman theorem for equations with degenerate operator at the derivative**

Karasozen B., Konopleva I., Loginov B.

COMPUTATIONAL SCIENCE - ICCS 2003, PT II, PROCEEDINGS, cilt.2658, ss.533-541, 2003 (SCI İndekslerine Giren Dergi)

● **Dynamics of numerical methods for cosymmetric ordinary differential equations**

Govorukhin V., Tsybulin V., Karasozen B.

INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, cilt.11, ss.2339-2357, 2001 (SCI İndekslerine Giren Dergi)

● **Runge-Kutta methods for Hamiltonian systems in non-standard symplectic two-form**

Karasozen B.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.66, ss.113-122, 1998 (SCI İndekslerine Giren Dergi)

● **Modified iterative methods for linear systems of equations**

Karasozen B., Ozban A.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.70, ss.179-196, 1998 (SCI İndekslerine Giren Dergi)

● **Approximations for semilinear Cauchy problems involving second order equations in separable Banach spaces**

Ergenc T., Karasozen B., Piskarev S.

NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, cilt.28, ss.1157-1165, 1997 (SCI İndekslerine Giren Dergi)

● **An error analysis of iterated defect correction methods for linear differential-algebraic equations**

Karasozen B., Somali S.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.60, ss.121-137, 1996 (SCI İndekslerine Giren Dergi)

● **Runge-Kutta collocation methods for rigid body Lie-Poisson equations**

Ergenc T., Karasozen B.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.62, ss.63-71, 1996 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

● **Earthquake location methods**

Karasozen E., KARASÖZEN B.

GEM-INTERNATIONAL JOURNAL ON GEOMATHEMATICS, cilt.11, 2020 (ESCI İndekslerine Giren Dergi)

● **International conference on boundary element and meshless techniques XVII**

TEZER M., KARASÖZEN B.

EUROPEAN JOURNAL OF COMPUTATIONAL MECHANICS, cilt.26, ss.351-352, 2017 (ESCI İndekslerine Giren Dergi)

- **STREAMLINE UPWIND/PETROV GALERKIN SOLUTION OF OPTIMAL CONTROL PROBLEMS GOVERNED BY TIME DEPENDENT DIFFUSION-CONVECTION-REACTION EQUATIONS**
Akman T., KARASÖZEN B., Kanar-Seymen Z.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, cilt.7, ss.221-235, 2017 (ESCI İndekslerine Giren Dergi)
- **ANKOS with Hilmi Celik**
KARASÖZEN B.
TURKISH LIBRARIANSHIP, cilt.30, ss.120-122, 2016 (ESCI İndekslerine Giren Dergi)
- **DERIVATIVE FREE MULTILEVEL OPTIMIZATION**
KARASÖZEN B.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, cilt.5, ss.46-60, 2015 (ESCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Model Order Reduction for Pattern Formation in FitzHugh-Nagumo Equations**
KARASÖZEN B., UZUNCA M., Kucukseyhan T.
European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Türkiye, 14 - 18 Eylül 2015, cilt.112, ss.369-377
- **Time-Space Adaptive Method of Time Layers for the Advective Allen-Cahn Equation**
UZUNCA M., KARASÖZEN B., Sariaydin-Filibelioglu A.
European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Türkiye, 14 - 18 Eylül 2015, cilt.112, ss.175-183
- **Average Vector Field Splitting Method for Nonlinear Schrodinger Equation**
Akkoyunlu C., KARASÖZEN B.
4th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems, Antalya, Türkiye, 29 Nisan - 02 Mayıs 2012, ss.245-251
- **Optimal Control of Diffusion Convection Reaction Equations Using Upwind Symmetric Interior Penalty Galerkin SIPG Method**
KARASÖZEN B., YÜCEL H.
4th International Interdisciplinary Chaos Symposium, Antalya, Türkiye, 29 Nisan - 01 Mayıs 2012, ss.83-94
- **Convection in a Porous Medium and Mimetic Scheme in Polar Coordinates**
KARASÖZEN B., Trofimova A., Tsybulin V.
13th International Workshop on Computer Algebra in Scientific Computing, Kassel, Almanya, 5 - 09 Eylül 2011, cilt.6885, ss.251-252
- **Distributed Optimal Control of Diffusion Convection Reaction Equations Using Discontinuous Galerkin Methods**
YÜCEL H., HEIKENSCHLOSS M., KARASÖZEN B.
ENUMATH 2011, Leicester, İngiltere, 5 - 09 Eylül 2011, ss.389-397
- **Computation of Graph Spectra of Protein-Protein Interaction Networks**
KARASÖZEN B., Erdem O.
6th International Symposium on Health Informatics and Bioinformatics (HIBIT), İzmir, Türkiye, 2 - 05 Mayıs 2011, ss.74-79
- **Energy preserving methods for lattice equations**
ERDEM Ö., KARASÖZEN B.
International Conference on Mathematical Sciences, Bolu, Türkiye, 23 - 27 Kasım 2010, cilt.1309, ss.567-569
- **Operator Splitting of the KdV-Burgers Type Equation with Fast and Slow Dynamics**
KARASÖZEN B., KARASÖZEN B.
International Conference on Mathematical Sciences, Bolu, Türkiye, 23 - 27 Kasım 2010, cilt.1309, ss.562-563
- **Computation of Spectra of Large Networks**

ERDEM Ö., KARASÖZEN B., Sariaydin A.

International Conference on Mathematical Sciences, Bolu, Türkiye, 23 - 27 Kasım 2010, cilt.1309, ss.846-851

Distributed optimal control of unsteady Burgers and convection diffusion reaction equations using COMSOL Multiphysics

YÜCEL H., KARASÖZEN B., YILMAZ F. N. , KANAR Z.

Computational techniques for optimization problems subject to time-dependent PDEs, Brighton, İngiltere, 14 - 16 Aralık 2009

Institute of Applied Mathematics at Middle East Technical University, Ankara (Panel Discussion Contribution)

KARASÖZEN B.

Workshop on Recent Developments in Applied Probability and Statistics Dedicated to the Memory of Professor Jurgen Lehn, Ankara, Türkiye, 23 - 24 Nisan 2009, ss.215-221

Multisymplectic Schemes for the Complex Modified Korteweg-de Vries Equation

AYDIN A., KARASÖZEN B.

International Conference on Numerical Analysis and Applied Mathematics, Psalidi, Yunanistan, 16 - 20 Eylül 2008, cilt.1048, ss.60-61

Derivative free optimization of stirrer configurations

Schaefer M., KARASÖZEN B., UĞUR Ö., Yapici K.

6th European Conference on Numerical Mathematics and Advanced Applications (ENUMATH2005), Santiago de Compostela, İspanya, 01 Temmuz 2005, ss.1031-1033

Conservative finite difference schemes for cosymmetric systems

Karasozen B., Tsybulin V.

4th International Workshop on Computer Algebra in Scientific Computing (CASC), Constance Bay, Kanada, 22 - 26 Eylül 2001, ss.363-375

Adaptive symplectic and reversible integrators

Karasozen B.

Conference of the NATO-Advanced-Study-Institute on Error Control and Adaptivity in Scientific Computing, Antalya, Türkiye, 9 - 21 Ağustos 1998, cilt.536, ss.191-220

Desteklenen Projeler

KARASÖZEN B., Güney T., Yükseköğretim Kurumları Destekli Proje, Parametrik kısmi türevli diferansiyel denklemlerin uzay-zaman ağında ayrıkla;tılması ve eniyilemeli kontrolü, 2014 - 2014

KARASÖZEN B., Arslantaş Ö. M. , Yükseköğretim Kurumları Destekli Proje, Taşınım Ağırlıklı Eniyilemeli Kontrol Problemleri için Çoklu Ağ Yöntemleri, 2014 - 2014

KARASÖZEN B., Murat U., Akman T., Yükseköğretim Kurumları Destekli Proje, Doğrusal Olmayan Difüzyon-Konveksiyon-Reaksiyon Denklemlerinin ve Eniyilemeli Kontrol Problemlerinin Uyarlamalı, Kesintili Galerkin Yöntemleriyle Çözümü, 2013 - 2013

KARASÖZEN B., MANGUOĞLU M., Yükseköğretim Kurumları Destekli Proje, Eyer noktası doğrusal sistemlerin çözümü için paralel algoritmalar ve bunların PDE-kısıtlı optimizasyon probleminde uygulanması, 2013 - 2013

KARASÖZEN B., Yükseköğretim Kurumları Destekli Proje, Adveksiyon Ağırlıklı Eniyilemeli Kontrol Problemlerinin Model İndirgeme Yöntemleriyle Çözümü, 2012 - 2012

KARASÖZEN B., Yükseköğretim Kurumları Destekli Proje, Adveksiyon Ağırlıklı Eniyilemeli Kontrol Problemlerinin Kesintili Galerkin Yöntemleriyle Çözümü., 2011 - 2011

KARASÖZEN B., Yükseköğretim Kurumları Destekli Proje, Çok Katmanlı Eniyileme Problemlerinin Türev Gerektirmeyen Yöntemlerle Çözümü, 2009 - 2009

Atıflar

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