



ALEMDAR HASANOV - HASANOĞLU

## CURRICULUM VITAE

*January, 2017*

### Education

1988, Doctor of Science in Physics and Mathematics (Soviet scientific research equivalent of full professor)

Thesis title: "*Mathematical Methods for Direct and Inverse Problems Related to Nondestructive Diagnostics of Elastoplastic Materials*"

Special Scientific Committee chaired by A.N. Tikhonov

Department of Computational Mathematics and Cybernetics, Moscow State University, Russia

1982, Candidate of Science (=PhD) in Physics and Mathematics

Thesis title: "*Numerical Methods for Contact Problems of Elasticity*" Advisers: A.A. Samarskii and V.B. Andreev

Department of Computational Mathematics and Cybernetics, Moscow State University, Russia

1976, Diploma with Honors (Mathematics), Department of Mathematics, Baku State University, Azerbaijan

### Professional Activities

2009-2016, Professor and Head, Department of Mathematics and Computer Sciences, Dean of the Graduate School of Engineering and Science, Izmir University, Izmir - Turkey

1993-2009, Professor, Department of Mathematics, Kocaeli University, Izmit - Turkey

1994-2006, Chair, Applied Mathematics Division, Department of Mathematics, Kocaeli University

1994-2006, Head of Applied Mathematical Sciences Research Center, Kocaeli University

1997, Spring Semester, Visiting Professor, University of Nebraska - Lincoln, Department of Mathematics and Statistics, Lincoln, Nebraska, U.S.A.

1992-1993, Visiting Professor, Dept. of Mathematics, Marmara Research Centre, Turkey

1991, Visiting Professor, Moscow State University, Russia

1989-1992, Professor, Baku State University, Azerbaijan

1986-1988, Associate Professor, Moscow State University, Russia  
1983-1985, Assistant Professor, Baku State University, Azerbaijan  
1979-1982, Ph.D. Student, Moscow State University, Russia  
1977-1978, Research Specialist, M. Keldysh Institute of Applied Mathematics, USSR  
Academy of Sciences, Moscow, Russia

### **Research Interests**

- Inverse Problems
- Partial Differential Equations
- Variational Methods
- Numerical Methods
- Mathematical and Computational Modeling
- Mathematical Problems in Elasticity and Elastoplasticity
- Computational Materials Science
- Mathematical Methods in Electrochemistry

### **Courses: Taught at Graduate Level**

Mathematical and Computational Modeling  
Variational Methods for Elliptic Problems  
Inverse Problems for Partial Differential Equations  
Advanced Analysis  
Selected Chapters of Partial Differential Equations  
Sobolev Spaces  
Variational Inequalities  
Applied Functional Analysis  
Weak Solution Theory for PDE  
Scientific Computation  
The Theory of Finite Element Method  
Mathematical Theory of Elasticity  
Finite Element Method for Engineers  
Theory of Monotone Potential Operators  
Advanced Engineering Mathematics

### **Courses: Taught at Undergraduate Level**

Mathematical Analysis  
Engineering Mathematics  
Linear Algebra  
Numerical Analysis  
Complex Analysis  
Modern Analysis  
Applied Mathematics  
Mathematical Modeling  
Partial Differential Equations  
Scientific English

### **Projects, Grants**

MATHEMATICAL AND NUMERICAL SIMULATION OF BRINELL HARDNESS TESTING

(01/1984-01/1985, Project Chair)

*All Union Physico-Technical and Radio-Technical Measurement Institute, Solnechnogorsk, Moscow Region*

MATHEMATICAL MODELING OF CONTACT PROBLEMS IN CYLINDRICAL SUPPORT WITH TEMPERATURE FORCES (01/1987-10/1988, Project Co-Chair)

*Engineering Sciences Institute of USSR Academy of Sciences, Moscow*

COMPUTATIONAL DIAGNOSTICS OF TEMPERATURE INSULATED MATERIALS

(01/1988-01/1990, Project Chair)

*Scientific - Technological Union "Technology", Obninsk, Moscow Region*

THE GLOBAL MODELING AND SYSTEM ANALYSIS OF ENVIRONMENTAL PROCESSES IN KOCAELI REGION ( 09/1993-03/1994, Project Chair)

*Kocaeli Administration and Environmental Organization, Izmit, Turkey*

AN INVERSE SOURCE PROBLEM FOR A BENDING PLATE (10/1994-09/1995, Project Chair)

*Arcelik A. S., Bayramoglu, Istanbul, Turkey*

THE GLOBAL MODELING OF SOCIO-ECONOMICAL DEVELOPMENT OF KOCAELI REGION FOR 1965 - 1995 YEARS ( 01/1995-12/1995, Project Chair)

*Kocaeli Administration, Izmit, Turkey*

ENVIRONMENTAL CONTROL MODELING AND SOFTWARE (02/1996-01/1997, Project Chair)

*Istanbul Metropolitan Municipality, Istanbul, Turkey*

"INVERSE PROBLEMS: MODELING AND SIMULATION" (The First International Conference, Fethiye Turkey) (May, 2002, Project Co-Chair)

*Grant No: N00014-02-1-1033, Office of Naval Research - International Field Office, USA*

"INVERSE PROBLEMS: MODELING AND SIMULATION" (The International Conference, Fethiye Turkey) (May-June, 2004, Project Chair)

*TUBITAK, Turkey*

"INVERSE PROBLEMS RELATED TO HYPERBOLIC EQUATIONS" (02 May-29 May, 2005, Project Chair)

*TUBITAK, Turkey*

THE POPULATION MODEL AND PROJECTIONAL DATABASE FOR KOCAELI REGION ( 09/2003-09/2005, Project Chair)

*Kocaeli Governorship, Izmit, Turkey*

"NUMERICAL MODELING FOR DIFFERENTIAL EQUATIONS WITH MONOTONE OPERATORS (September 2006- September 2007, Project Chair)

*Research Fund of Kocaeli University*

"INVERSE PROBLEMS FOR ELLIPTIC, PARABOLIC DIFFERENTIAL EQUATIONS AND RELATED VARIATIONAL INEQUALITIES" (15 April-15 July, 2006, Project Chair)

*TUBITAK, Turkey*

"DEVELOPMENT OF A UNIFIED APPROACH AND SOFTWARE FOR NUMERICALLY SOLVING INVERSE AND OPTIMIZATION PROBLEMS FOR DISTRIBUTED SYSTEMS" (January 2007 - July 2009 (2 year), Project Coordinator)

*Grant No: Nr 06-1000017-8909, INTAS (The International Association formed by the European Community, for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union)*  
*INTAS, Brussels*

”MONOTONICITY OF INPUT-OUTPUT MAPPINGS IN INVERSE PROBLEMS”  
(12 June, 2007 - 12 June, 2009, Project Chair)  
*Research Fund of Kocaeli University*

”SOLUTION OF INVERSE PROBLEMS WITH NONLOCAL ADDITIONAL CONDITIONS FOR LINEAR/ NONLINEAR PARABOLIC EQUATIONS, AND APPLICATION TO WATER REMEDIATION/POLLUTION AND ION TRANSFER PROBLEMS” (October, 2008 - October, 2010, Project Chair)  
*Grant No: 108T332, TUBITAK, Turkey*

”NATO NETWORKING INFRASTRUCTURE GRANT” (01/2009 - 01/2011), Science for Peace and Security Section, NATO, Brussels (Grant NIG 983659), Project Chair

Scientific collaboration with Prof. Dr. Vladimir G. Romanov from Sobolev Institute of Mathematics, 24 May - 07 June, 2014  
*2221-Fellowships for Visiting Scientists and Scientists on Sabbatical Leave, TUBITAK, Turkey*

”INVERSE PROBLEMS: MODELING AND SIMULATION” (The International Conference, Fethiye Turkey) (26-30 May, 2014, Project Chair)  
*2223-C - Scientific Meetings Grant Programmes, TUBITAK, Turkey*

Scientific collaboration with Prof. Dr. Andreas Neubauer from Johannes Kepler University, 01 - 14 February, 2015  
*2221-Fellowships for Visiting Scientists and Scientists on Sabbatical Leave, TUBITAK, Turkey*

”MATHEMATICAL MODELS FOR VIBRATION OF NON-HOMOGENEOUS EULER-BERNOULLI BEAM AND SOLUTION OF RELATED INVERSE SOURCE PROBLEMS” (April 15, 2016 - April 15, 2018, Project Chair)  
*Grant No: MFAC-115F412, TUBITAK, Turkey*

### **Awards and Honors**

-1969, 1970, Two-times Prize at Azerbaijan Mathematical School Olympiads, Baku  
-1974, Participant of USSR Mathematical Student Olympiad, Moscow State University, Moscow (Chairman A. Kolmogorov)  
-1983, Best Research Award, Baku State University, Azerbaijan  
-1989, *Medal and Diploma of Honor* (with Academician K. Frolov, Prof. Y. Drozdov, Prof. A. Efimov) USSR Academy of Science, Moscow, USSR (Exhibition of National Economical Achievement on ”Fundamental Sciences in Technology” for the best scientific work ”Computational Express-Nondestructive Diagnostics of Constructional Medium” (Cert. no. 480-N, 02.08.89) for the year 1988)  
-1993, *Certificate - Research and Development Project Management Program*, Battelle: Professional Development Center, USA  
-1994, 1995, 1996, *Annual Best Research Award*, Kocaeli University, Turkey  
-1998, *Teaching and Research Excellence Award*, Kocaeli University, Turkey  
-1998, *Kocaeli Governorship Award*, Turkey  
-2003, *American Medal of Honor*, American Biographical Institute  
-2003, *Best Research Award*, Kocaeli University, Turkey  
-2004, 2005, 2008 *Annual Best Research Award*, Kocaeli University, Turkey  
-2008 *Honorary Professor of L.N. Gumilev Eurasian National University*, Astana, Kazakistan  
-2010, *Award for Invited/Plenary Speakers*, Sattelite Conference of International Congress of Mathematicians, 15 - 18 August, 2010, New Delhi, India

-2011, 2012, 2013, 2014, 2015 *Research Excellence Award*, Izmir university, Turkey  
-2016, *Gold Medal "Unity"*. Awarded by the President of the Republic of Kazakhstan Nursultan Nazarbayev (for its enormous contributions to the strengthening of the unity, the preservation of peace and harmony and the development of spiritual culture in Kazakhstan).

#### **Ph.D. Students**

1. Azer Mamedov "Numerical Solution of Direct and Inverse Problems for Bending Plate", Faculty of Computational Mathematics and Cybernetics, Moscow State University, Moscow, USSR, 1990.
2. Zahir Seyidmamedov "Numerical Solution of Elastoplastic Contact Problems", Institute of Cybernetics, Azerbaijan Academy of Sciences, Baku, Azerbaijan, 1991.
3. Mohamadi Abu El Fituh Mahmut "Numerical Solution of Direct and Inverse Problems for Orthotropic and Layered Bending Plates", Baku State University, Baku, Azerbaijan, 1991.
4. Yagub Mamedov "Qualitative Analysis of Elliptic Variational Inequalities", Faculty of Mathematics and Mechanics, Baku State University, Baku, Azerbaijan, 1992.
5. Serda Apak "Numerical Solution of Inverse Scattering Problem for Multilayered Media", Kocaeli University, Izmit - Kocaeli, Turkey, 1995.
6. Metin Bayrak "Comparitive Analysis of Finite Element and Finite Difference Methods on Boundary Value Problems Elliptic Type", Kocaeli University, Izmit - Kocaeli, Turkey, 1998.
7. Burhan Pektas "Inverse Coefficient Problems with Boundary Measured Data for the Sturm-Liouville Operator", Kocaeli University, Izmit - Kocaeli, Turkey, 2006.
8. Ebru Ozbilge "Numerical Solution of Elliptic Problems with Discontinuous Coefficients", Kocaeli University, Izmit - Kocaeli, Turkey, 2006.
9. Ali Demir "Bifurcation Equation Reduced by Lyapunov-Schmidt Method and Its Analysis", Kocaeli University, Izmit - Kocaeli, Turkey, 2007.
10. Turekhan Akhmedov, "Identification Problems Related to Nonlinear Ion Transport", Al-Farabi Kazakh National University, Almata - Kazakhstan, 2008.
11. Arzu Erdem "Monotonicity of Input-Output Mappings and Frechet Differentiability and Lipschitz Continuity of Cost Functionals in Inverse Problems for Parabolic Equations", Kocaeli University, Izmit - Kocaeli, Turkey, 2010.
12. Salih Tatar "Inverse Coefficient Problems with Nonlocal Additional Condition for Nonlinear Elliptic Equations Related to Torsional Rigidity of a Bar", Kocaeli University, Izmit - Kocaeli, Turkey, 2011.
13. Bakytzhan Akpayev, "Some Inverse Source and Identification Problems for Parabolic Equations", L.N. Gumilev Eurasian National University, Astana, Kazakhstan (under the international Ph.D. program, with Professor Muhtarbay Otelbaev <http://www.enu.kz/en/professors/prepodavатели/Otelbayev/index.php>), 2011.
14. Berik Toleuov, "Multiparameter Models in a Class of Economic Problems and Predictions", L.N. Gumilev Eurasian National University, Astana, Kazakhstan (under the international Ph.D. program, with Professor Muhtarbay Otelbaev), 2015.

#### **Membership in Editorial Boards of International Journals**

Member of Board of Scientific Advisors, *Inverse Problems in Science and Engineering* (2010 - )  
Member of Editorial Board, *Journal of Inverse and Ill-Posed Problems* (2005 - )  
Associate Editor, *Inverse Problems in Science and Engineering* (2007 - 2010)  
Associate Editor, *Applicable Analysis* (2008 - 2011)  
Member of Editorial Board, *Hacettepe Journal of Mathematics and Statistics* (2008 -2012)  
Member of Editorial Board, *Eurasian Mathematical Journal* (2009 - )

**Referee/Reviewer:** *SIAM Journal on Applied Mathematics, Inverse Problems, Inverse Problems and Imaging, Journal of Inverse and Ill-Posed Problems, Inverse Problems in Science and Engineering, Automatica, Journal of Mathematical Analysis and Applications, Computational Physics, International Journal of Nonlinear Mechanics, International Journal of Heat and Mass Transfer, Journal of Computational and Applied Mathematics, Nonlinear Analysis: Theory, Methods & Applications,*

**Memberships in International Societies and Scientific Committees**

- Member of Steering Committee, Eurasian Association for Inverse Problems (2014 - 2016)
- Chair of Steering Committee, Eurasian Association for Inverse Problems (Since May, 2016)
- Nominator, Japan Prize, The Science and Technology Foundation of Japan (Since 2001), Kamiyacho Mori Building, 4th Floor 3-20, Toramnon 4-chome, Minato-ku, Tokyo, 105-0001 JAPAN
- Member of Society for Industrial and Applied Mathematics (SIAM), (Since 1998),
- Member of American Mathematical Society (Since 1998),
- Member of International Federation of Nonlinear Analysts (IFNA) (1999-2002)
- Member of the Steering Committee of the International Society "Inverse Problems in Science and Engineering" (Since 2008-2012)
- Member of Azerbaijan Mathematical Society (1993-1997), Baky, Baky State University, Azerbaijan
- Special Coordination Committee of Kocaeli State Administration on Environmental Problems (1993-1996)
- Scientific Committee on Mathematical Modeling at the Academy of Sciences USSR (1989-1991)
- Scientific Committee on Contact Problems in Mechanics at the Academy of Sciences USSR (1986-1989)
- Special Scientific Committee on PhD dissertations at the Academy of Sciences Azerbaijan S.S.R (1989-1992)
- Scientific Committee of Young Scientists of Moscow State University (1980-1982)
- Scientific Committee of Young Scientists of Baku State University, Chair (1988-1990)

**Invited Addresses**

- Invited lecturer, Nanning University for Internationalities, Nanning, China, January 16-24, 2016.
- Plenary speaker, International Workshop on Inverse and Ill-Posed Problems (Dedicated to Prof. A. Yagola), Moscow State University, Moscow, November 19-21, 2015.
- Plenary speaker, V Annual Meeting of the Georgian Mechanical Union, October 9-11, 2014, Tbilisi, Georgia
- Plenary speaker, 7th International conference on Mathematical Modeling, June 30 July 4, 2014, Yakutsk
- Keynote speaker, 4th Inverse Problems, Design and Optimization Symposium (IPDO-2013), June 26-28, 2013, Albi, France
- Invited lecturer, International Conference "Inverse and Ill-Posed Problems of Mathematical Physics" (dedicated to the 80th anniversary of the birthday of Academician M.M. Lavrentev), August 5-12, 2012, Novosibirsk, Russia
- Invited lecturer, 11th Workshop on Dynamical Systems and Applications, Cankaya University , Ankara, Turkey, June, 2012
- Invited lecturer, Gent University, Belgium, January, 2012
- Plenary speaker, The Sixth International Conference "Algorithmic Analysis of Unstable Problems", October 31 -November 05, 2011 Ekaterinburg, Russia
- Plenary speaker, Sattelite Conference of International Congress of Mathematicians 2010 (ICM 2010), August 15 - 17, New Delhi, India
- Plenary speaker, Third Congress of the Turkish World Mathematicians, June 30 - Jule 04, 2009, Almaty, Kazakhstan
- Invited speaker, Izmir University, Turkey, December, 2008
- Plenary speaker, Euro-Asian National (Gumilev) University, Astana, September, 2008
- Invited speaker, Al-Farabi Kazakhstan National University, Almata, June, 2007
- Invited speaker, Workshop INTAS - South-Caucasus 2007: Scientific Cooperation and Collaborative Call, 29 March 2007, Tbilisi-Georgia
- Keynote speaker, Asia Simulation Conference, Meiji University, Tokyo, Japan, October 31, 2006
- Invited speaker, Al-Farabi Kazakhstan National University, Almata, September, 2006

-Invited speaker, Department of Optimization, Faculty of Applied Mathematics, Baku State University, Baku, Azerbaijan, June, 2003  
 -Invited speaker, Koc University, Turkey, October, 2000  
 -Invited speaker, University of Catania, Italy, July 23-24, 2000  
 -Invited speaker, Dokuz Eylul University, Izmir, Turkey, October 1999  
 -Colloquium speaker, Rostov State University, Rostov, Russia, May 1999  
 -Invited speaker, University of Nebraska, Lincoln, NE, February 1999  
 -Colloquium speaker, Moscow State University, Moscow, Russia, February 1999  
 -Colloquium speaker, Arcelik, Research and Developmant Center, Istanbul, Turkey, June 1997  
 -Colloquium speaker, Department of Engineering Sciences, Middle East Technical University, Ankara, Turkey, December, 1997  
 -Colloquium speaker, University of Nebraska, Lincoln, NE, April 1997  
 -Colloquium speaker, Colorado State University, Fort Collins, Colorado, May 1996  
 -Invited speaker, Marmara Research Centre, Gebze, Turkey, January 1992  
 -Invited speaker, National Mathematics Symposium, Gazimaguza, Turkey, September 1993  
 -Invited speaker, IFAC WORKSHOP "ACQP", Istanbul, Turkey, June 1993  
 -Invited speaker, Int. IMACS Conference, Moscow-Vilnius, June 1990  
 -Invited speaker, Computational Centre of Moscow State University, May 1988  
 -Invited speaker, Institute of Engineering Problems, Ukrainean Academy of Sciences, September 1988  
 -Invited speaker at the Seminar on Differential Equations, Institute of Mathematics and Informatics, Lithuanian Academy of Sciences Vilnus, November 1988  
 -Invited speaker, International Conferense on Mathematical Problems in Mechanics, Moscow, April 1986  
 -Invited speaker at the Applied Mathematics Seminar, Kharkhov Technology Institute, Ukrayna, June 1985

## PUBLICATIONS

### Articles in International Scientific Journals with Referee Practice

1. Numerical method for solving a contact problem of elasticity theory in the absence of friction forces, *Differentsialnye-Uravneniya* [Differentsialnye-Uravneniya] 18(1982), no.7, 1156-1161, 1284. MR: 84g: 73052.
2. On the numerical solution of a contact problem of elasticity theory with an unknown contact zone in the presence of complete adhesion, *Akad.-Nauk-Azerbaidzhan.-SSR-Dokl.* [Akademiya-Nauk-Azerbaidzhanskoi-SSR-Doklady] 38 (1982), no.7, 3-7. MR: 84b:65112.
3. On the solution of some contact problems with two stamps, *Akad. - Nauk - SSSR - Inst. - Prikl. - Mat. - Preprint* [Akademiya-Nauk-SSSR. -Institut-Prikladnoi-Matematiki.-Preprint], no.47, 19 (1982) MR: 83j: 73050.
4. Properties of normal stresses and displacements near a perturbed boundary of the contact zone, *Differentsialnye-Uravneniya* [Differentsialnye-Uravneniya] 19 (1983), no.7, 1181-1186 . MR: 85a: 73085.
5. Approximation of variational inequalities in an infinite-dimensional space, *Dokl.-Akad.-Nauk-SSSR*] 285 (1985), no.1, 20-23. MR: 86m: 49016.
6. Application of the elimination method in the solution of strongly elliptic systems by the finite element method, *Zh.-Vychisl.-Mat.-i-Mat.-Fiz.* [Akademiya-Nauk-SSSR.- Zhurnal-Vychislitelnoi-Matematiki-i-Matematicheskoi-Fiziki] 26(1986), no.6, 837-850, 958. MR: 87i: 65173.
7. An inverse problem for reconstruction of elastoplastic properties on the basis of an indentation diagram, *Differentsialnye-Uravneniya* [Differentsialnye-Uravneniya] 22 (1986), no.7, 1260-1263, 1288. MR: 87k: 73020.

8. Solution of an axisymmetric contact problem of elasticity by the finite element method, *Vestnik - Moskov. - Univ. - Ser. - XV - Vychisl. - Mat. -Kibernet.* [Vestnik-Moskovskogo-Universiteta.-Seriya-XV.-Vychislitel'naya- Matematika-i-Kibernetika] 1987, no.4, 11-16, 72. MR: 88m: 65192.
9. (with A. Efimov) Local Adaptable Mesh Method for Numerical Solution of Elastoplastic Contact Problems, *Izvestiya Acad. Nauk USSR, MTT*, Vol.6, pp:105-112, (1988).
10. Mathematical principles of the nondestructive diagnostics of an elastoplastic medium (theory and computational experiment), Akad.-Nauk-SSSR-Inst.-Prikl.-Mat.-Preprint [Akademiya-Nauk-SSSR-Institut- Prikladnoi-Matematiki-Preprint] 1988, no.36, 28 pp. MR:89f: 73028.
11. (with Y. Drozdov, A.Efimov) Mathematical simulation of contact interaction in a cylindrical sliding bearing, *Soviet Journal of Friction and Wear*, Vol.9, No.2, pp:223-230, (1988).
12. An inverse problem of nondestructive diagnostics of an elastoplastic medium, *Dokl.-Akad.-Nauk-SSSR* [Doklady-Akademii-Nauk-SSSR] 298 (1988), no.6, 1299-1303. MR: 89c: 73029.
13. (with A.Mamedov) Some properties of the solution of the Signorini problem under perturbation of an unknown boundary, Original: *Vestnik-Moskov-Univ.-Ser.-XV-Vychisl.-Mat.-Kibernet.* [Vestnik-Moskovskogo-Universiteta.-Seriya-XV.-Vychislitel'naya-Matematika-i- Kibernetika] 1989, no.3, 64-66. MR: 90k: 73080.
14. (with Y. Drozdov, A. Efimov) On Mathematical Modeling of Contact Problems in Cylindrical Support Rolling with Temperature Forces, *Soviet Journal of Friction and Wear*, Vol.10, No.3, pp:12-16, (1989) (in Russian, trans. in English).
15. (with A. Efimov, M. Hapaev) On Numerical Solution of Inpenetration Contact Problem Elasticity, *Izvestiya Acad. Nauk USSR, MTT*, Vol.3, pp:12-17, (1989).
16. Computational diagnostics for determining properties of construction materials, *Mat.-Model.* [Matematicheskoe-Modelirovanie] 1(1989), no.6, 1-32. MR: 90m: 73004 .
17. (with V. Lokshin) Computational diagnostics of an ortotropic medium, *Matematicheskoe Modelirovaniye*, Vol.2, No.12, pp:12-21(1990).
18. (with A. Fatullaev) Mathematical modeling in lazer-metal processes, *Matematicheskoe Modelirovaniye*, Vol.3, No.1, pp:18-24, (1991) (in Russian, trans. in English).
19. (with A. Mamedov) An Inverse Problem Related to the Determination of Elastoplastic Properties of a Plate, *Inverse Problems*, **10** (1994) pp. 601-615.
20. An Inverse Coefficient Problem for an Elasto-Plastic Medium, *SIAM J. Appl. Math.*, **55**(1995), pp.1736-1752 .
21. (with Z. Seyidmamedov) The Solution of an Axisymmetric Inverse Elasto-Plastic Problem Using Penetration Diagram, *International Journal of Non-Linear Mechanics*, **30**(1995), pp. 465-477.
22. Inverse coefficient problems for monotone potential operators, *Inverse Problems*, **13**(1997), pp. 1265-1278.
23. Coefficient stability and existence of a quasisolution of inverse parabolic problem, *Applicable Analysis*, **67**(1997), pp. 1-9.
24. (with T.S. Shores) Solution of an inverse coefficient problem for an ordinary differential equation, *Applicable Analysis*, **67**(1997), pp. 11-20.
25. (with Z. Seyidmamedov ) Determination of unknown elastoplastic properties in Signorini problem, *International Journal of Nonlinear Mechanics*, **34**(1998), pp. 979-991.
26. Properties of Signorini's problem solution with perturbation of unknown boundary and application to contact problems, *Applicable Analysis* **68** (1998), pp. 357-381.



- 27.** Variational approach to a nonlocal identification problem related to nonlinear ion transport, *Mathematical Methods in the Applied Sciences* **21** (1998), pp. 1195-1206.
- 28.** Strong coefficient stability for quasilinear elliptic equations with application to inverse coefficient problems, *Applicable Analysis* **68** (1998), pp. 313-331.
- 29.** Inverse coefficient problems for elliptic variational inequalities with a nonlinear monotone operator, *Inverse Problems* **14** (1998), pp. 1151-1169.
- 30.** Qualitative behaviour of solutions of unilateral elliptic problems with perturbing the unknown boundary. I. The Theory, *Applied Mathematics and Computation*, **109** (2000), pp. 249-260.
- 31.** (with Z. Seyidmamedov) Qualitative behaviour of solutions of Signorini problem with perturbing the unknown boundary. II. The multigrid method, *Applied Mathematics and Computation*, **109** (2000), pp. 261-271.
- 32.** (with J. Mueller, S Cohn and J Redepenning) Numerical solution of a nonlocal identification problem related to nonlinear ion transport, *Computers & Mathematics with Applications*, **39** (2000), pp. 225-235.
- 33.** Convexity argument for monotone potential operators and its application, *Nonlinear Analysis: Theory, Method & Applications*, **41/7-8** (2000), pp. 907-919.
- 34.** (with J. Mueller) A numerical method for backward parabolic problems with non-selfadjoint elliptic operator, *Applied Numerical Mathematics* , **37/1-2**(2001), pp. 55-78.
- 35.** (with Z. Seyidmamedov) Determination of leading coefficients in Sturm-Liouville operator from boundary measurements. I. A stripping algorithm, *Applied Mathematics and Computation*, **125** (2002), pp.1-21.
- 36.** (with Z. Seyidmamedov) Determination of leading coefficients in Sturm-Liouville operator from boundary measurements. II. Unicity and an engineering approach, *Applied Mathematics and Computation*, **125** (2002), pp. 23-34.
- 37.** (with B. Pektas) Simulation of ill-conditioned situations in the inverse coefficient problem for the Sturm-Liouville operator based on boundary measurements, *Mathematics and Computers in Simulation*, **61(1)** (2002), pp. 1-6.
- 38.** An inverse polynomial method for the identification of the leading coefficient in the Sturm-Liouville operator from boundary measurements, *Applied Mathematics and Computation*, **140** (2003), pp.501-515.
- 39.** Integral convexity argument for plasticity function and monotonicity of iteration process for elasto-plastic problems, *International Journal of Nonlinear Mechanics*, **39**(2004), pp. 1217-26.
- 40.** Error analysis of a multisingular inverse coefficient problem for the Sturm-Liouville operator based on boundary measurement, *Applied Mathematics and Computation*, **150**(2004), pp. 493-524.
- 41.** Determination of the leading coefficient in the monotone potential Sturm-Liouville operator from boundary measurements, *Applied Mathematics and Computation*, **152**(2004), pp. 141-162.
- 42.** On existence, uniqueness and convergence of approximate solution of boundary value problems related to nonlinear operator  $Au := -(k((u')^2)' + g(u)$ , *Applied Mathematics and Computation*, **153**(2004), pp. 659-672.
- 43.** (with A. Demir, N.S. Namachchivaya) Delay equations with fluctuating delay related to the regenerative chatter I: Reduced bifurcation equation, *Applicable Analysis*, **84(5)**(2005), pp. 437-449.
- 44.** (with A. Demir, N.S. Namachchivaya) Delay equations with fluctuating delay related to the regenerative chatter II: Analysis of the reduced bifurcation equation, *Applicable Analysis*, **84(6)**(2005), pp. 631-647.

45. (with A. Demir, N.S. Namachchivaya) Delay equations with fluctuating delay related to the regenerative chatter, *International Journal of Nonlinear Mechanics*, **41**(2006), pp.464-474.
46. (with P. DuChateau, B. Pektas) An adjoint problem approach and coarse-fine mesh method for identification of the diffusion coefficient in a linear parabolic equation, *Journal of Inverse and Ill-Posed Problems*, **14**(5)(2006), pp.435-463.
47. Monotonicity of non-linear boundary value problems related to deformation theory of plasticity, *Mathematical Problems in Engineering*, vol. 2006(2006), pp.1-18 (Article ID 58143).
48. (with Z. Seyidmamedov Muradoglu) A finite element analysis and remeshing algorithm for an axisymmetric elasto-plastic contact problem related to indentation measurements, *Materials & Design* **28**(2007), pp.62-70.
49. Simultaneous determination of source terms in a linear parabolic problem from the final over-determination: weak solution approach, *J. Math. Anal. Appl.*, **330**(2007), pp. 766-779.
50. (with A. Demir, A. Erdem) Monotonicity of input-output mappings in inverse coefficient and source problems for parabolic equations, *J. Math. Anal. Appl.*, **335**(2007), pp. 1434-1451.
51. Variational approach to nonlinear boundary value problems for elasto-plastic incompressible bending plate *Int. J. Non-Linear Mechanics*, **42**(5)(2007), pp. 711-721.
52. An inversion method for identification of elastoplastic properties for engineering materials from limited spherical indentation measurements, *Inverse Problems in Science and Engineering*, **15**(6)(2007), pp. 601-627.
53. (with Ş. Hasanoglu) Relationship between current response and time in ion transport problem including diffusion and convection. 1. An analytical approach, *Journal of Mathematical Chemistry*, **42**(4)(2007), pp. 741-751.
54. (with A. Demir) Identification of the unknown diffusion coefficient in a linear parabolic equation by the semigroup approach, *J. Math. Anal. Appl.*, **340**(1)(2008), pp. 5-15.
55. (with Zhenhai Liu) An inverse coefficient problem for a nonlinear parabolic variational inequality, *Applied Mathematics Letters*, **21**(6) (2008), pp. 563-570.
56. (with Ş. Hasanoglu) Analytical formulae and comparative analysis for linear models in chronoamperometry under conditions of diffusion and migration, *Journal of Mathematical Chemistry*, **44**(1)(2008), 133-141.
57. (with D. Lesnic) Determination of the leading coefficient in fourth-order Sturm-Liouville operator from boundary measurements, *Inverse Problems in Science and Engineering*, **16** (2008), 413 - 424 .
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4. Computational aspects of an inverse diagnostic problem for an elastoplastic medium *3rd World Congress on Computational Mechanics, Vol. 2-G10-3, 1994, pp.982-983*, August 1-15, 1994 Chiba, Japan.
5. Variational approach and numerical solution of two dimensional inverse scattering problem for non-homogeneous medium *WCCM III The Third World Congress on Computational Mechanics*, August 1-15, 1994 Chiba, Japan.
6. Inverse scattering problem for nonhomogeneous medium with an approximate boundary condition, *International Workshop on Direct and Inverse Electromagnetic Scattering*, September 24-30, 1995 TUBITAK, Marmara Research Center, Gebze - Turkey
7. (with J. Mueller) A Numerical method for backward parabolic problems With non-selfadjoint operators, *SIAM Annual Meeting*, University of Toronto, Canada, July 13-17, 1998.
8. (with J. Mueller) A forward collocation method for the backward parabolic equations, *Int. Workshop on Nonlinear and Improperly Posed Problems*, Kocaeli University, Izmit-Turkey, August 17-22, 1998.
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12. Convexity argument for nonlinear monotone potential operators and convergence of iteration method for nonlinear boundary Value Problems, *The Third World Congress of Nonlinear Analysts*, July 19-26, 2000, Catania, Italy.
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27. Fréchet differentiability and Lipschitz continuity of cost functionals in parabolic and hyperbolic inverse problems: a unified approach, *6th International ISAAC Congress*, August 13-18, 2007, Middle East Technical University, Ankara, Turkey
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44. (with Kabanikhin S.I., Mikhailenko B.G., Karas A., Khidasheli D., Belonosov A.S., Marinin I.V.) New Approaches to Earthquakes Prediction, Simulation and Visualization, *World Forum on Natural Cataclysms and Global Problems of the Modern Civilization: GEOCATACLYSM-2011*, September 19-21, 2011, Istanbul, Turkey
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2. *Nonlinear Analysis and Nonlinear Modeling*, V. Lakshmikantham and A. Hasanoglu (Hasanov) Eds., Proceedings of the Int. (IFNA) Conference on Nonlinear Analysis and Nonlinear Modeling, July 17th - 23th, 2001, Fethiye, Turkey (Kocaeli University, 2001, ISBN: 975-8047-03-5)
3. *Abstracts of the First International Conference "Inverse Problems: Modeling and Simulation"*, S. Cohn, A. Hasanoglu (Hasanov), S. Kabanikhin, A. Tolstoy Eds., Abstracts of the First International Conference "Inverse Problems: Modeling and Simulation", July, 14 - 21, 2002, Fethiye, Turkey (Kocaeli University, 2002, ISBN: 975-8047-12-4)
4. *Abstracts of the First International Conference "Inverse Problems: Modeling and Simulation"*, H.T. Banks, A. Hasanoglu (Hasanov), S.I. Kabanikhin, Eds., Abstracts of the International Conference "Inverse Problems: Modeling and Simulation", June 07th-12th, 2004, Fethiye, Turkey (Kocaeli University, 2004, ISBN: 975-8047-37-X)
5. *Abstracts of the Third International Conference "Inverse Problems: Modeling and Simulation"*, H.T. Banks, A. Hasanoglu (Hasanov), S.I. Kabanikhin, Eds., Abstracts of the Third International Conference "Inverse Problems: Modeling and Simulation", May 29th - June 02th, 2006, Fethiye, Turkey (Literatr, Istanbul 2006, ISBN: 975-04-0381-9)
6. *Abstracts of the Fourth International Conference "Inverse Problems: Modeling and Simulation"*, H.T. Banks, A. Hasanoglu (Hasanov), S.I. Kabanikhin, F. Kappel Eds., Abstracts of the Fourth International Conference "Inverse Problems: Modeling and Simulation", May 26th - 30th, 2008, Fethiye, Turkey (Literatr, Istanbul 2008, ISBN: 978-975-04-0454-2)
7. *Inverse Problems in Science and Engineering*, A. Hasanoglu (Hasanov), D. Lesnic Guest Eds., (Special Issue of the Journal *Inverse Problems in Science and Engineering* (**18**(1) 2010): Proceedings of the 4th International Conference "Inverse Problems: Modeling and Simulation, May 26th - 30th, 2008, held in Fethiye, Turkey)
8. *Abstracts of the Fifth International Conference "Inverse Problems: Modeling and Simulation"*, A. Hasanoglu (Hasanov), B. Hofmann, S.I. Kabanikhin Eds., Abstracts of the Fifth International Conference "Inverse Problems: Modeling and Simulation", May 24th - 29th, 2010, Antalya, Turkey (Izmir University, Izmir 2010, ISBN: 978-605-88696-0-8)
9. *Inverse Problems in Science and Engineering*, A. Hasanoglu (Hasanov), D. Lesnic Guest Eds., (Special Issue of the Journal *Inverse Problems in Science and Engineering* (**19**(5) 2011): Proceedings of the 5th International Conference "Inverse Problems: Modeling and Simulation, May 24th - 29th, 2010, held in Antalya, Turkey)
10. *Applicable Analysis* (**90**(10) 2011), A. Hasanoglu (Hasanov), Guest Ed., (Special Issue: Dedicated to Michael V. Klibanov, outstanding expert in inverse problems)
11. *Abstracts of the Sixth International Conference "Inverse Problems: Modeling and Simulation"*, A. Hasanoglu (Hasanov), G.S. Dulikravich, S.I. Kabanikhin, D. Lesnic, A. Neubauer Eds., Abstracts of the Sixth International Conference "Inverse Problems: Modeling and Simulation", May 21th - 26th, 2012, Antalya, Turkey (Izmir University, Izmir 2012, ISBN: 978-605-88696-3-9)
12. *Inverse Problems in Science and Engineering*, A. Hasanoglu (Hasanov), D. Lesnic Guest Eds., (Special Issue of the Journal *Inverse Problems in Science and Engineering* (**22**(1) 2014): Special Issue: Proceedings of the 6th International Conference "Inverse Problems: Modeling and Simulation", 21-26 May 2012, Antalya, Turkey)
13. *Abstracts of the Seventh International Conference "Inverse Problems: Modeling and Simulation"*, Alemdar Hasanoglu (Hasanov), H. Thomas Banks, Sergey I. Kabanikhin, Daniel Lesnic, Alfred K. Louis Eds., Abstracts of the Seventh International Conference "Inverse Problems: Modeling and Simulation", May 26 - 31, 2014, Ölüdeniz, Fethiye, Turkey (Izmir University, Izmir 2014, ISBN: 978-605-88696-5-3)
14. *Abstracts of the Workshop on Spectral Theory, Differential Operators and Applications*, A. Hasanoglu (Hasanov), M. Otelbaev, R. Oinarov, E. Nursultanov, K. Ospanov Eds., Abstracts of the Workshop on Spectral Theory, Differential Operators and Applications, May 26 - 31, 2014, Ölüdeniz, Fethiye, Turkey (Izmir University, Izmir 2014, ISBN : 978-605-88696-7-7)

#### Conference Organizations

1. *The International Workshop on Nonlinear and Improperly Posed Problems*, August 17-23, 1998,

Kocaeli, Turkey, Co-Chair of the International Program Committee

2. *The International Conference on Nonlinear Analysis and Nonlinear Modeling (IFNA)*, July, 17-23, 2001, Fethiye, Turkey, Chair of the International Program Committee
3. *The First International Conference "Inverse Problems: Modeling and Simulation"*, July, 14-21, 2002, Fethiye, Turkey, Co-Chair of the International Program Committee
4. *The Second International Conference "Inverse Problems: Modeling and Simulation"*, June 07-12, 2004, Fethiye, Turkey, Co-Chair of the International Program Committee
5. *The Third International Conference "Inverse Problems: Modeling and Simulation"*, May 29-June 02, 2006, Fethiye, Turkey, Co-Chair of the International Program Committee (For the history of these conferences see the paper "International Conferences Inverse Problems: Modeling and Simulation (Fethiye-Turkey), 2002, 2004, 2006 (by A. Hasanov), *Journal of Inverse and Ill-posed Problems*, Volume 15(1), pp. 107111 (ISSN (Online) 1569-3953, ISSN (Print) 0928-0219))
6. *6th International ISAAC Congress*, August 13-18, 2007, Middle East Technical University, Ankara, Turkey, Co-Chair of the Special Section: "Inverse and Ill-Posed Problems"
7. *6th International Conference on Inverse Problems in Engineering: Theory and Practice*, June 15-19, 2008, Paris-Dourdan, France, Member of the Scientific and Editorial Committee
8. *The Fourth International Conference "Inverse Problems: Modeling and Simulation"*, May 26-30, 2008, Oludeniz-Fethiye, Turkey, Co-Chair of the International Program Committee
9. *The Second International Conference "Problems of Cybernetics and Informatics" (PCI'2008)*, September 10-12, 2008, Baku, Azerbaijan, Member of the International Program Committee
10. *International Conference "Algorithmic Analysis of Unstable Problems"* (Dedicated to the 100th anniversary of outstanding Russian mathematician V.K. Ivanov), September 01-06, 2008, Ekaterinburg, Russia, Member of the International Program Committee
11. *International Conference "Computational and Informational Technologies in Science, Engineering and Education" (CTMM-2008)*, Almaty, Kazakhstan, September 10-14, 2008, Member of the International Program Committee
12. *The III Congress of Turkish World Mathematicians*, June 30 - July 4, 2009, Almaty, Kazakhstan, Member of the International Program Committee
13. *International Conference "Modern problems of applied mathematics and information technologies - Al-Khorezmiy 2009"*, September 18- 21, 2009, Tashkent, Uzbekistan, Co-Chair of the International Program Committee
14. *The Fifth International Conference "Inverse Problems: Modeling and Simulation"*, Antalya - Turkey, May 25-30, 2010, Chair of the International Program Committee
15. *The 6th International Conference "Inverse Problems: Modeling and Simulation"*, Antalya - Turkey, May 21-26, 2012, Chair of the International Program Committee
16. *8th International Conference on Inverse Problems in Engineering*, Cracow - Poland, May 12-15, 2014, Member of the Scientific Committee
17. *The 7th International Conference "Inverse Problems: Modeling and Simulation"*, Ölüdeniz, Fethiye-Turkey, May 26-30, 2014, Chair of the International Program Committee
18. *Workshop on Spectral Theory, Differential Operators and Applications*, Ölüdeniz, Fethiye, Turkey, May 26 - 29, 2014, Member of the International Program Committee
19. *The International Conference Mathematical and Computational Modelling in Science and Technology (ICMCMST15)*, Izmir-Turkey, August 02-07, 2015, Chair of the Scientific Committee
20. *The 8th International Conference "Inverse Problems: Modeling and Simulation"*, Ölüdeniz, Fethiye-Turkey, May 23-28, 2016, Chair of the International Program Committee

#### **Membership in International Program/Scientific Committees**

- Conference on Applied Computational Mathematics, Baku, April, 1983
- International IMACS Conference, Moscow, June, 1990
- The First General Assembly of Local Authorities of Turkish Republics, The Association of Marmara Municipalities, June 16-18, 1998, Istanbul, Turkey
- International Workshop on Nonlinear and Ill-Posed Problems (Co-Chair), Kocaeli-Turkey, August,

1998

- International Conference on Environmental Mathematical Modeling and Numerical Analysis (EMMNA'99), Rostov State University, Rostov, Russia, May 24-31, 1999
- Third International Conference "Finite-Difference Methods: Theory and Applications", Palanga, Lithuania, September 1-4, 2000
- International IFNA Conference "The First International Conference on Nonlinear Analysis and Nonlinear Modeling" (Co-Chair), Fethiye - Turkey, July 17-23, 2001
- International Conference "Computational Methods in Applied Mathematics:CMAM-1", Minsk, Belarus, July 21-25, 2003
- Second International Conference on Modeling Simulation and Applied Optimization (ICMSAO), The American University of Sharjah, Sharjah, U.A.E., February 1-3, 2006
- The Third International Conference "Information Technologies and Telecommunications in Education and Science", Turkey, Fethiye, May 13-17, 2007
- 6th International ISAAC Conference, Special Session "Inverse and Ill-Posed Problems: Analysis and Their Applications" (Co-Chair), Ankara - Turkey, August 13-18, 2007
- Asia Simulation Conference (AsiaSim 2007), October 10-12, Seoul, Korea
- 6th International Conference on Inverse Problems in Engineering: Theory and Practice Dourdan (Paris), France - June 15-19, 2008
- The International Conference "Algorithmic Analysis of Ill-Posed Problems" (Dedicated 100 year of V.K. Ivanov), Ekaterinburg, Russia - September 01-06, 2008
- The International Conference "Computational and Information Technologies in Science, Engineering and Education", September 10-14, 2008, Almaty, Kazakhstan
- III Congress of the Turkish World Mathematicians, June 30 - July 04, 2009, Almaty, Kazakhstan
- International Conference and Young Scientists School "Theory and Computational Methods for Inverse and Ill-posed Problems" Akademgorodok, Novosibirsk, Russia, 10-20 August 2009
- 7th International Conference on Inverse Problems in Engineering (ICIPE), University of Central Florida, USA, May 4-6, 2011
- 8th International ISAAC Congress, Co-Chair of the Session "Inverse problems", Peoples' Friendship University of Russia, Moscow, August 21-27, 2011
- The International Conference "Inverse and Ill-Posed Problems of Mathematical Physics" (dedicated to the 80th anniversary of the birthday of Academician M.M. Lavrentiev), Novosibirsk, Russia, August 5-12, 2012
- 4th International Symposium on Inverse Problems, Design and Optimization (IPDO-2013), June 26-28, 2013, Albi, France
- International Conference on Inverse Problems in Engineering, May 12-15, 2014, Cracow, Poland

#### **Other Professional Activities**

2013 Founder of The Eurasian Association for Inverse Problems

2013-2016 Organizer and Chair of the Program Committee, Izmir University Mathematical Olympiads, Turkey

1993-2006 Organizer and Chair of Applied Mathematical Sciences Research Center at Kocaeli University, Turkey

1997-2003 Member of the Coordination Committee of the International Black Sea Club (at United Nations)

1996-present Member of Kocaeli University Association

1998-Member of Consulting Group of The First Congress of Local Authorities of Turkish Republics

#### **Present Address**

Korutürk Mahallesi, Lodos Sokak No. C 9/3

Balçova, 35330. Izmir - TURKEY

Tel (Mob.): +90 532 465 2884

E-mail address: alemdar.hasanoglu@gmail.com