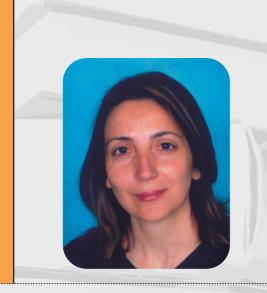
FACULTY OF ENGINEERING

department of

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EMINE ATASOYLU

Assistant Professor

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BS 1989 Middle East Technical University, Chemical Engineering

MS 1992 Eastern Mediterranean University, Chemistry

PhD 2000 Eastern Mediterranean University, Environmental Chemistry

After completing her PhD studies in Environmental Chemistry ("An Examination of Water Quality of Dams and Harbors of Northern Cyprus; Utilizing Nutrient Cycling and Eutrophication Measurements") Emine Atasoylu lectured in different departments as a part time Instructor at the Eastern Mediterranean University (EMU). She joined the Department of Industrial Engineering in 2001 and is currently a member of the full time faculty as an Assistant Professor. In May 2003 Dr. Atasoylu was appointed Vice Dean for the Faculty of Engineering.

She is on the board of directors of the Research Center for Water and Marine Sciences at EMU since November 2002. She is also an active member of several committees including the Industrial Relations Committee, and the Library and Publications Committee in the Department of Industrial Engineering, and the Accreditation Board for Engineering and Technology Committee for the Faculty of Engineering.

Research Interests

Water Quality
Engineering Ethics
Environmental Protection
Occupational Safety and Health
Human Safety

Selected Publications

Atasoylu E., Taneri U., Salihoğlu İ. An Inevitable Episode: Salination of Gönyeli Dam. Fresenius Environmental Bulletin. (8):133-139; 1999.

Atasoylu, E., U. Taneri and İ., Salihoğlu. An Inevitable Episode: Salination of Gönyeli Pond. Proceedings of the International Conference on Water Problems in the Mediterranean Countries, pp. 176, Nicosia, TRNC, 1997.

Atasoylu E., Niazi U. Conventional Configuration Interaction, Step Vector Representation and Hamiltonian-Symbolic Matrix Elements UGA-Unitary Group Approach. Proceedings of the 7th Annual Conference on Chemistry and Chemical Engineering, Volume 1, pp. 334, Gazi Mağusa, TRNC, 1991.

HALUK S. BALKAN

Associate Professor

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BS 1966 Middle East Technical University, Electrical Engineering

MS 1968 Middle East Technical University, Electrical Engineering

MS 1974 University of Pennsylvania, Operations Research



Research Interests

Information Systems Analysis Optimization

Selected Publications

Toker, B. and H.S. Balkan,"Hospital Workflow Management: A Case Study", Proceedings of OR/IE' 2000, 21st. National Meeting on Operations Research and Industrial Engineering, pp. 158-161, Gazimagusa (2001).

Yurtseven, M.K., N. Kirkavak, H. S. Balkan, F.C Çetinkaya, Y. Günalay, "M.S. in Systems Engineering Management: A Proposal for a New Program", Proceedings of 15th International System Dynamics Conference, pp. 245-250, Istanbul (1997).

'Üretim Planlama Sistemleri Tasarimi (Design of Production Planning Systems)', co-authored, Prof. Mustafa Parlar Egitim ve Arastirma vakfi, Ankara (1983).

T. Çimento Sanayii TAS, Is Degerlendirmesi Arastirmasi Projesi Son Raporu (Final report of the job evaluation project for the Turkish Cement Industries TAS)', coauthored, SIBAREN-METU Publications No: 81-00-00-01-17, Ankara (1982).

Haluk S. Balkan joined the Faculty of Engineering in Eastern Mediterranean University in 1994. He received his BS and MS degrees in Electrical Engineering at Middle East Technical University in Ankara, and his MS in Operations Research at the University of Pennsylvania. Haluk S. Balkan was involved in many applied engineering projects. He is currently writing a chapter on Industrial Engineering Practices in collaboration with his colleagues in the department. His research interests include Information Systems Analysis and Multi-Objective Optimization. He is an elected member both in the Faculty Board of Engineering Faculty and the University Senate.



MURAT BENGISU

Assistant Professor

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BS 1984 Dokuz Eylul University, Mechanical Engineering

MS 1987 New Mexico Institute of Mining and Technology, Materials Science and Engineering

PhD 1992 New Mexico Institute of Mining and Technology, Materials Science and Engineering

Murat Bengisu worked in various fields of industry, such as Manufacturing Engineering, Product Design and Development, and Quality. Dr. Bengisu started his academic career at Eastern Mediterranean University in 1999. For one year, he was accepted as a visiting professor to the University of Missouri-Rolla at the Materials Research Center. During this period, he worked on an industrially funded project about sealing ceramics to superalloys. In addition, he lectured at the Ceramic Engineering Department.

Dr. Bengisu completed various self-initiated projects in collaboration with his research partner Dr. Elvan Yılmaz of the Chemistry Department. He also completed a project for TUBITAK related to the joining of ceramic materials.

He is the author of a comprehensive book on engineering ceramic materials published internationally by Springer Verlag. He is also the author or coauthor of 14 articles in refereed journals and of two articles in international conference proceedings. He presented his research findings at seven international conferences/symposia and one national congress.

Murat Bengisu is currently supervising one MS and co-supervising a PhD thesis project.

Research Interests

Materials Science and Engineering
Chitin gels and microbeads for bioengineering
and pharmaceutical applications
New boroaluminate, borosilicate, and aluminosilicate glasses and glass-ceramics
Ceramic-ceramic and ceramic-metal joining
Sol-gel silica microspheres as drug carriers
Gelcasting using chitosan gels
Industrial Engineering
Reengineering at a restaurant
Critical and emerging technologies
Technoparks/Technology Development Centers

Selected Publications

M. Bengisu, R. K. Brow, and J. E. White, "Interfacial Reactions Between Lithium Silicate Glass-Ceramics and Ni-Based Superalloys and the Effect of Heat Treatment at Elevated Temperatures", J. Mater.Sci., 39 [2] 605-618 (2004).

E. Yilmaz and M. Bengisu, "Preparation and Characterization of Physical Gels and Beads from Chitin Solutions" Carbohydrate Polymers, 54 (2003) 479-488.

M. Bengisu, "Critical and Emerging Technologies in Materials, Manufacturing, and Industrial Engineering: A study for Priority Setting", Scientometrics, 58 [3] 473-487 (2003).

M.Bengisu and E.Yilmaz, "Gelcasting of Alumina and Zirconia with Chitosan Gels", Ceramics International, 28 [4] 431-438 (2002).

M.Bengisu and E.Yilmaz, "Oxidation and Pyrolysis of Chitosan as a Route for Carbon Fiber Derivation", Carbohydrate Polymers, 50 [2] 165-175 (2002).

FERDA CAN ÇETİNKAYA

Assistant Professor

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BS 1985 Middle East Technical University, Industrial Engineering

MS 1988 Middle East Technical University, Industrial Engineering

PhD 1996 Middle East Technical University, Industrial Engineering



Research Interests

Machine Scheduling
Production and Inventory Planning and Control
Mathematical Programming: Theory and
Applications
Combinatorial Optimization

Selected Publications

F.C. Çetinkaya, Editor, Proceedings of the 21st National Meeting on Operational Research and Industrial Engineering (YA/EM' 2000 - Yöneylem Araştırması ve Endüstri Mühendisliği XXI. Ulusal Kongresi Bildiriler Kitabı), ISBN: 975-8401-07-6, Eastern Mediterranean University, Gazimağusa, T.R.N.C., July 2001.

M. Hashemipour and F.C. Çetinkaya, "A Methodology for the Integration of Computer Aided Process Planning into Scheduling", Proceedings of the 5th International Conference on Advanced Mechanical Engineering and Technology, Vol.2, pp. 499-507, Plodiv, BULGARIA, 1999.

F.C. Çetinkaya et al., "M.S. in Systems Engineering Management: A Proposal for a New Program", Proceedings of the 15th International System Dynamics Conference, Vol.1, pp. 245–250, İstanbul, TURKEY, 1997.

F.C. Çetinkaya, "Lot Streaming in a Two-stage Flow Shop with Set-up, Processing and Removal Times Separated", Journal of Operational Research Society, Vol. 45, No.12, pp. 1445–1455, 1994.

F.C. Çetinkaya and M.S. Kayalıgil, "Unit Sized Transfer Batch Scheduling with Setup Times", Computers and Industrial Engineering, Vol.22, No.2, pp. 177–183, 1992. Ferda Can Çetinkaya received his BS degree in Industrial Engineering at Middle East Technical University in Turkey. He completed his MS degree in 1988 at the same university. He was appointed as an assistant professor to the Department of Industrial Engineering at Eastern Mediterranean University. Dr. Çetinkaya has also held several administrative positions in EMU such as Vice Chair, Vice Dean, Research and Education Coordinator, and Secretary General; and was appointed various positions in the University Executive Board, Academic Personnel Disciplinary Board, Purchasing and Tender Committee, Executive Board of EMU Technology Development Center, Engineering Faculty Boards, Departmental Committees on Library-Publications and Industrial Training. Currently, he is serving in Academic Workforce Planning, Graduate Program, and Undergraduate Program Committees of the Industrial Engineering Department.

Dr. Çetinkaya has refereed for reviewing articles for Computers and Industrial Engineering, European Journal of Operational Research, IIE Transactions, Naval Research Logistics, Operations Research Letters, and Transactions on Operational Research. He is a member of Operational Research Society of United Kingdom, Operational Research Society of Turkey, and Chamber of Mechanical Engineers of Turkey. He is currently writing an English-Turkish-English dictionary of industrial engineering and management terms and a chapter on production scheduling of an introductory book on industrial engineering.



GÖKHAN İZBIRAK

Assistant Professor

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BS 1986 Middle East Technical University, Industrial Engineering

MBA 1993 Eastern Mediterranean University, Business Administration

PhD 1999 Eastern Mediterranean University, Mathematics

Gökhan İzbırak obtained his BS degree in Industrial Engineering at Middle East Technical University in 1986. He worked as an industrial engineer at a factory producing corrugated boxes. In 1991, he joined the MBA program at the Department of Business Administration in Eastern Mediterranean University, and in 1999, he completed his PhD studies at the Department of Mathematics. Since 2000, he has been teaching in the Department of Industrial Engineering at EMU. He has offered various courses like Applied Mathematics, Calculus, Linear Algebra, Discrete Mathematics, Probability, Statistics, Introduction to Industrial Engineering, Financial Decision Making, Engineering Economy, Operations Research, Production Planning, and a project based design course on Manufacturing and Service Systems. He is currently writing a chapter on Project Managemet of an introductory book on Industrial Engineering. He is also serving as the Department Vice-Chair.

Research Interests

Financial Decision Making Optimization

Selected Publications

- P. Kas, E. Klafszky, L. Malyusz, G. İzbırak, Young Programming, C.A. Floudas and P.M. Pardalos (editors), Encyclopedia of Optimization, Volume 5, pp. 551-557, Kluwer Academic Publishers, 2001.
- P. Kas, E. Klafszky, L. Malyusz, G. İzbırak, Approximation of Linear Programs by Bregman's DF Projections, European Journal of Operational Research, EJOR, Vol. 126, No.1, pp. 69-79, 2000.
- G. İzbırak, Young Programming, Proceedings of the XXI. National Congress on Operations Research and Industrial Engineering (YA/EM 2000), pp. 432-435, Eastern Mediterranean University, Gazimağusa, TRNC, 2000.
- G. İzbırak, On geometric properties of some divergence functions, Proceedings of the VII. National Mathematics Symposium, pp. 137-140, Bilkent University, Ankara, Turkey, 1994.
- G. İzbırak, The RAS Method viewed as entropy programming problem, some generalizations, Proceedings of the VI. National Mathematics Symposium, pp.150-154, EMU, Gazimağusa, TRNC, 1993.

NIRMAL SINGH KAMBO

Professor

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MS Toronto University, Canada, Industrial Engineering

MA Delhi University, India, Mathematics

PhD Toronto University, Canada, Industrial Engineering



Research Interests

Probabilistic Modelling Statistical Inference Queueing Theory Information Theory Numerical Analysis

Selected Publications

B.R.Handa, N.S.Kambo, and C.D.Ravindran (2002), "Testing of scale parameter of the exponential distribution with known coefficient of variation: conditional approach", Communication in Statistics – Theory & Methods, Vol. 31, pp.73-86.

N.S.Kambo, D.Z.Dervis and Taswar Iqbal (2001), "Measurement-based MMPP modeling of voice traffic in computer networks using moments of packet inter-arrival times", Conference proceedings of IEEE International Conference of Networking ICN'01 France, Vol. II: Lecture Notes in Computer Science (2094), Springer Verlag, pp.570-578.

N.S.Kambo, B.R.Handa and V.Ravindranath (1997), "Estimation of the Smaller and Larger of Truncation Parameters of Two Non-regular Distributions", Communications in Statistics: Theory and Methods, Vol 26, pp. 2439-2456.

N.S.Kambo, B.R.Handa and R.K.Bose (1990), "A linear goal programming model for urban energy-economy-environment interaction", Energy and Buildings, Vol. 15, pp. 537-551.

N.S.Kambo, and M.L.Chaudhry (1984), "Distribution of busy period for the bulk-service queueing system //1", Computers & Operations Research, Vol. 11, pp. 267-274.

Nirmal Singh Kambo received his MS and PhD degrees in Industrial Engineering at Toronto University in 1965 and 1968, respectively. Earlier, in 1961, he received his MA degree in Mathematics at Delhi University, India.

He served at the Indian Institute of Technology, Delhi, as an assistant professor in Mathematics from 1968 to 1978; associate professor from 1978-1980, and professor from 1980 to 1998. He was also the Chair of the Mathematics Department from 1989 to 1992.

He was a visiting professor of Industrial Engineering at Bilkent University from 1994 to 1995; visiting professor of Statistics at Yarmouk University, Jordan, from 1982 to 1984; and visiting professor at Royal Military College of Canada, Kingston, from 1981 to 1982. He also held visiting professorship at McMaster University and Wilfrid Laurier University, Canada, during summers of 1990 and 1992, respectively, for joint collaborative research.

Dr. Kambo has published more than fifty research articles in Information Theory, Queueing Theory, Probabilistic Modelling, Statistical Inference, and Numerical Analysis. These articles appear in journals of international repute. He has also a book entitled 'Mathematical Programming Techniques', East-West Press, 1984, revised edition 1991. He has supervised ten PhD theses.

He has been a professor of Industrial Engineering at Eastern Mediterranean University since September 1998.



NUREDDÍN KIRKAVAK

Associate Professor

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BS 1987 Middle East Technical University, Industrial Engineering

MS 1990 Bilkent University, Industrial Engineering

PhD 1995 Bilkent University, Industrial Engineering

Nureddin Kırkavak obtained his MS degree at Bilkent University in 1990. He received his PhD degree at the same university in 1995.

Dr. Nureddin Kırkavak joined the Department of Industrial Engineering at Eastern Mediterranean University in 1995 as an assistant professor. He worked for the development of undergraduate and graduate curriculum together with the foundation studies in the Department. He has offered both introductory courses on computers and industrial engineering and senior level project based design courses on financial management, systems modelling, simulation, facility location, manufacturing and service systems design and layout. He has been involved in various real-life and granted research projects. He has several SCI & ESCI publications (in JORS and EJOR) and also has attended several international conferences.

Since 1998, he has been the Chair of the Department of Industrial Engineering. He was promoted to associate professor in 1999. He has been refereeing several international and national journals. He is a member of IIE, INFORMS, JORS, ORS/Turkey and the Chamber of Mechanical Engineers/Turkey.

Research Interests

Performance Evaluation of Manufacturing Systems Stochastic Systems Modelling & Simulation Financial Analysis & Justification of Modern Manufacturing Technologies Production Planning & Systems Design

Selected Publications

- N. Kirkavak and C. Dinçer, "The General Behaviour of Pull Production Systems: The Allocation Problems", European Journal of Operational Research, Vol. 119, No. 2, 1999.
- N. Kirkavak and C. Dinçer, "Modelling and Analysis of Pull Production Systems: A Mathematical Approach", Journal of Industrial Engineering (in Turkish), Vol.8, No. 2-3, 1997.
- N. Kirkavak and C. Dinçer, "The General Behaviour of Pull Production Systems", EURO XV / INFORMS XXXIV Joint International Meeting, Barcelona-SPAIN, July 1997.
- N. Kirkavak and C. Dinçer, "Performance Evaluation Models for Single-Item Periodic Pull Production Systems", Journal of Operational Research Society, Vol. 47, No.2, 1996.
- N. Kirkavak, "Optimization in Prismatic Part Manufacturing by Travelling Salesman Algorithm", 3rd National Machine Design and Manufacturing Conference, METU, Ankara-TURKEY, September 1988.

ADHAM MACKIEH

Assistant Professor

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BS 1986 Middle East Technical University, Industrial Engineering

MS 1989 Middle East Technical University, Industrial Engineering

PhD 1996 Middle East Technical University, Industrial Engineering



Research Interests

Human Factors Engineering System Simulation

Selected Publications

A. Mackhie and C. Çilingir, Effects of Performance Shaping Factors on Human Error, International Journals of Industrial Ergonomics, 22, p285, 1998.

A. Mackhie, S. Alten and C. Çilingir, Simulation of the Control Board of an Experimental Nuclear Reactor, Transaction of the American Nuclear Society, 73, p127, 1995.

A. Mackhie and C. Çilingir , T. Sen and S. Alten, Modeling of Human Errors in a University Training Nuclear Reactor, Proceeding of the "Advances in Applied Ergonomics ICAE96," ISBN: 0-471-88015-9, P831, 1996.

N. Aktaş, C. Çilingir, P. Çakıroğlu and A. Mackhie. Kadın Dikiş İşçilerinin Enerji Harcamaları ve Enerji-Besin Öğeleri Tüketim Durumları, Ankara Üniversitesi (Ziraat Fkültesi), yayın No. 1332, 1993.

Adham Mackieh obtained his PhD in Industrial Engineering at Middle East Technical University, Ankara, Turkey, in 1996, where he worked as a research assistant for 6 years. He worked as a part-time instructor at the Department of Industrial Engineering, Bilkent University in 1995. He worked as a Project Manager for "Simar1 Construction Project" in Lebanon from 1996 to 2000.

He also worked as an education director for a non-profit organization,
"Jamiyeh Al-Ilmiyeh Al-Khayriyeh" in
Lebanon during 1999-2000.
He has been an assistant professor at
the Department of Industrial
Engineering, Eastern Mediterranean
University since September 2000. Dr.
Adham Mackieh has 11 academic publications and under his supervision two
master theses were completed.



RAMZI NEKHILI

Assistant Professor

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BS 1990 Ecole Nationale D'Ingenieurs Sfax, Tunisia, Food Industry Engineering

MS 1995 Institut Superieur de Gestion Tunis, Tunisia, Management

PhD 2002 Bilkent University, Business Administration (Finance)

Ramzi Nekhili joined the Department of Industrial Engineering in Eastern Mediterranean University in 2002. He received his BS in Food Industry Engineering at the School of Engineering of Sfax in Tunisia, his MS in Management at the School of Management in Tunisia, and his PhD in Business Administration (Finance) at Bilkent University. Dr. Nekhili has published one paper and currently submitting more to scholarly journals. He is currently writing a chapter on Industrial Engineering Practices. His research interests include Financial Economics and Risk Management.

Research Interests

Financial Economics Risk Management

Selected Publications

R, Nekhili, A. A. Salih and R. Gencay, Exploring foreign exchange rate returns at different time horizons, Physica A, 315, 671-682, 2002.

R. Nekhili, A. A. Salih and S. Caner, Quantifying foreign exchange market risk at different time horizons, submitted to the International Journal of Forecasting, 2004.

Expected draft of a chapter for a book entitled "Industrial Engineering: Ingredients for Success", 2004.

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HASAN HÜSEYIN ONDER

Visiting Associate Professor e-mail: hasan.onder@emu.edu.tr

BS 1982 Cukurova University, Industrial Engineering

MS 1986 Gazi University, Industrial Engineering

PhD 1995 University of Cardiff, System Engineering



Research Interests

Al in Industry Al in Education Al and Expert Systems on distance education TQM in Industry and Education Obtaining electrical energy form city and animal

Selected Publications

Pham, D.T., Önder, H.H., A Knowledge-based system for optimising workplace layouts using a genetic algorithm. In: Ergonomics (Rapid Communication), Vol.35, No. 12, pp: 1479-1487, 1992.

Pham, D.T., Önder, H.H., An expert system for ergonomic workplace design using a genetic algorithm, In: Applications of Artificial Intelligence in Engineering, pp: 287-297, 1991 Oxford, UK.

Önder, H.H., A knowledge-based system for anthropometric design of workplace layouts, In: The 4th Pan Pacific Conference on Occupational Ergonomics, pp:405-408, Taiwan, 1996.

Pham D.T., Önder H.H., Channon PH, Ergonomic Workplace Layout Using Genetic Algorithm., J SYST ENG 6 (2): 119-125 MAY 1996.

Önder, H.H., The role of human to human communication models on to design of human-computer comunication and screen design. 9 th. National Ergonomi Conference 16-18 September 2003, Pamukkale University.

ÖNDER, H.H., Using ES and computer on distance education., 28-30 May, 2003, EMU.

Hasan Hüseyin Önder worked as a lecturer at the Department of Computer Education, Faculty of Industrial Arts Education in Gazi University from 1995 to 1998, where he was appointed as an assistant professor. He was then appointed as the Head of Department of Computer Education in the same university in 1996. He was also appointed as the Head of Division in Gazi University in 1995: Division of Control and Command Systems and Computer Education Technology. During 1995-2002, he devised several projects for the government and private sectors on Total Quality Management. He carried out the organization of TQM seminars for Near and Middle East Work and Education Center in Turkey. He started to work as a visiting associate professor in Industrial Engineering Department at EMU in 2003. Since then, he has been working on obtaining biogas from city and animal waste to produce electrical energy. He has proposed a project to the Ministry of Agriculture and Forest on obtaining biogas from animal waste to get electrical energy. He has supervised one PhD and 17 MS students. He has published 22 papers in various national and international journals and conferences. He has had a book published entitled "Using Basic

Computer Technologies."



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BS 1990 Bilkent University, Industrial Engineering

MS 1993 Bilkent University, Industrial Engineering

PhD 1998 Bilkent University, Industrial Engineering

Hakan Özaktaş obtained his BS degree in Industrial Engineering at Bilkent University in 1990. He worked as a part-time instructor from 1990 to 1998. He received his BS degree in 1993 (Mathematical Models of Evolution) and PhD degree in 1998 (Algorithms for Linear and Convex Feasibility Problems: A Brief study of Iterative Projection, Localization and Subgradient Methods). Since then, he has been employed as a full-time faculty member in the Industrial Engineering Department at Eastern Mediterranean University where he is currently serving as the Department Vice-Chair.

Research Interests

Production Planning and Inventory Management Non-linear Optimization Subgradient and Projection Algorithms Convex Feasibility Models for Image Recovery

Selected Publications

Hakan Özaktaş, Mustafa Ç. Pınar, and Mustafa Akgül, "An improved simultaneous block projections algorithm for the linear feasibility problem." In Proceedings of the Twelfth International Symposium on Computer and Information Sciences, S. Kuru, M. U. Çağlayan, and H. L. Akın, eds., published by Boğaziçi University, İstanbul, 1997, pp. 551-558.

Hakan Özaktaş, Mustafa Ç. Pınar, and Mustafa Akgül, "Restoration of space variant global blurs caused by severe camera movements and coordinate distortions," Journal of Optics, 29 (1998), pp. 303—310.

M. Alper Kutay, Hakan Özaktaş, Haldun M. Özaktaş, and Orhan Arıkan, "The fractional Fourier domain decomposition, Signal Processing," 77 (1999), pp. 105-109.

Hakan Özaktaş, Mustafa Ç. Pınar, Mustafa Akgül, Tahsin Kurç and Cevdet Aykanat, "An algorithm with long steps for the simultaneous block projections approach for the linear feasibility problem," Journal of Discrete Mathematical Sciences & Cryptography, 4 (2001), No. 1, pp. 87-108.

Enis Çetin, Hakan Özaktaş, and Haldun M. Özaktaş, "Resolution enhancement of low resolution wavefields with POCS algorithm," Electronics Letters, 39 (2003), pp. 1808-1810.