

Erol Taymaz

Department of Economics
Middle East Technical University
Ankara 06800 Turkey

Tel : (90 312) 210 3034, Fax: (90 312) 210 7964
e-mail: etaymaz@metu.edu.tr, web: <http://users.metu.edu.tr/etaymaz>

1 May 2020

Experience

1998-Present	Professor, Department of Economics, Middle East Technical University, Ankara
1993-1998	Associate Professor, Department of Economics, Middle East Technical University, Ankara
1992-1993	Assistant Professor, Department of Economics, Middle East Technical University, Ankara
2015-2016	Research Fellow, TEPAV
1993-2016 Winter	Visiting Professor, Department of Economics, Université Panthéon–Assas (Paris II), Paris
2013-2014 Spring	Visiting Scholar, Department of Economics, Université Montesquieu Bordeaux IV, Bordeaux
2005 Summer	Visiting Scholar, Department of Economics, Universidad de Deusto, San Sebastián
1996-1997 Summer	Visiting Scholar, Department of Industrial Economics, Royal Institute of Technology, Stockholm
2010-2014	Vice President, Middle East Technical University Northern Cyprus Campus
2005-2006	Advisor, The Central Bank of Turkey
2001-2004	Advisor, The Scientific and Technological Research Council of Turkey
1999-2000	Advisor, State Institute of Statistics, Turkey
1989-1992	Research Fellow, Industrial Institute for Economic and Social Research (IUI), Stockholm
1985-1989	Research Assistant, Department of Economics, Case Western Reserve University, Cleveland, USA
1982-1985	Research Engineer, Aselsan Electronics Industries, Inc., Ankara

Education

1989	Ph.D., Department of Economics, Case Western Reserve University, Cleveland, USA
1985	M.S., Department of Economics, Middle East Technical University, Ankara
1982	B.S., Department of Mechanical Engineering, Middle East Technical University, Ankara

Publications

- 2020, “Covid-19 tedbirlerinin Türkiye ekonomisine etkisi ve çözüm önerileri”, *Sarkaç*, 8 April [https://sarkac.org/2020/04/covid19-tedbirlerinin-turkiye-ekonomisine-etkisi-cozum-onerileri/]
- 2019, “Spatial Agglomeration, Innovation Clustering and Firm Performances in Turkey”, (with A.M. Ferragina and G. Nunziante), in S. Capasso and E. Ferragina, *Mediterranean Migration and the Labour Markets: Policies for Growth and Social Development in the Mediterranean Area*, London and New York: Routledge, pp. 102-132.
- 2019, “Firm Growth Dynamics and Employment Generation in Turkish Manufacturing” (with Ü. Töngür), in A. Akkoyunlu Wigley and S. Çağatay (eds.), *The Dynamics of Growth in Emerging Economies: The Case of Turkey*, Oxeon and New York: Routledge, pp. 246-266.
- 2018, *Dijital Teknolojiler ve Ekonomik Büyüme: Dijital Teknoloji Sektörlerinde Türkiye’nin Konumu, Fırsatları, Seçenekleri*, İstanbul: TÜSİAD.
- 2018, *Türkiye’nin Dijital Ekonomiye Dönüşümü* (with Ü. İzmen, Y. Üçdoğruk Gürel, Y. Kılıçaslan ve U. Aytun), İstanbul: TÜBİSAD.
- 2017, “Yapısal Dönüşüm, Sanayileşme ve Sanayi Politikaları: Küresel Eğilimlerden Türkiye Ekonomisine Kısa Bir Gezinti” (with E. Voyvoda), in M. Koyuncu, H. Mihçı and A.E. Yeldan, *Geçmişten Geleceğe Türkiye Ekonomisi*, İstanbul: İletişim, pp. 11-44.
- 2017, “Türkiye İmalat Sanayiinde Firma Büyümesi ve İstihdam” (with Ü. Tongür), in M. Koyuncu, H. Mihçı and A.E. Yeldan, *Geçmişten Geleceğe Türkiye Ekonomisi*, İstanbul: İletişim, pp. 75-94.
- 2017, “Türkiye İmalat Sanayiinde Kar Marjları” (with K. Yılmaz), in M. Koyuncu, H. Mihçı and A.E. Yeldan, *Geçmişten Geleceğe Türkiye Ekonomisi*, İstanbul: İletişim, pp. 95-113.
- 2016, “İstihdam, Eşitsizlik ve Yoksulluk”, in M. Heper and S. Sayarı (eds.), *Dünden Bugüne Türkiye: Tarih, Politika, Toplum ve Kültür*, Translated by K. Tanrıyar, İstanbul: İstanbul Bilgi Üniversitesi Yayınları, ss. 471-485 (translated from Taymaz, 2012).
- 2016, “Globalization, Technological Change and Labor Demand: A Firm-level Analysis for Turkey” (with E. Meschi and M. Vivarelli), *Review of World Economics* (152): 655–680.
- 2015, “Demokrasiye Geçiş, Reel Ücretler ve Verimlilik: Türkiye İmalat Sanayiinden Bulgular” (with E. Voyvoda ve K. Yılmaz), in E. Özçelik and E. Taymaz (eds.), *Türkiye Ekonomisinin Dünü Bugünü Yarını: Yakup Kepenek’e ve Oktar Türel’e Armağan*, Ankara: İmge, pp. 141-161.
- 2015, “Bölüşüm Göstergeleri ile 2008-2009 Krizi: Türkiye Örneği” (with Z. Başak), in E. Özçelik and E. Taymaz (eds.), *Türkiye Ekonomisinin Dünü Bugünü Yarını: Yakup Kepenek’e ve Oktar Türel’e Armağan*, Ankara: İmge, pp. 91-120.
- 2015, “Türkiye’de Bilgi ve İletişim Teknolojileri Sektörü: Yeri, Önemi ve Geleceği” (with Ü. İzmen, Y. Kılıçaslan and Y. Üçdoğruk Gürel), in E. Özçelik and E. Taymaz (eds.), *Türkiye Ekonomisinin Dünü Bugünü Yarını: Yakup Kepenek’e ve Oktar Türel’e Armağan*, Ankara: İmge, pp. 57-70.
- 2014, “Foreign Ownership, Survival and Growth Dynamics in Turkish Manufacturing”

- (with K.Yılmaz), in A. Ferragina, E. Taymaz and K. Yılmaz (eds.), *Innovation, Globalization and Firm Dynamics: Lessons for Enterprise Policy*, Routledge, pp. 237-264.
- 2014, “What have We Learned? Lessons for Enterprise Policy” (with A. Ferragina and K.Yılmaz), in A. Ferragina, E. Taymaz and K. Yılmaz (eds.), *Innovation, Globalization and Firm Dynamics: Lessons for Enterprise Policy*, Routledge, pp. 357-365.
- 2014 (Edited with A. Ferragina, and K. Yılmaz), *Innovation, Globalization and Firm Dynamics: Lessons for Enterprise Policy*, Routledge.
- 2013, “The Demand for Researchers: Does Public R&D Support Make a Difference?” (with Y. Ucdogruk), *Eurasian Business Review* (3): 90-99.
- 2012, “Marching to the Beat of a Late Drummer: Turkey's Experience of Neoliberal Industrialization since 1980” (with E. Voyvoda), *New Perspectives on Turkey*, No 47, pp. 83-113.
- 2012, “Employment, Equality and Poverty”, in M. Heper and S. Sayari (eds.), *Handbook of Modern Turkey*, Routledge, 364-375.
- 2012, “Kafkasya'da Ekonomik Dönüşüm ve Kalkınma”, in M. Aydın (ed.), *Avrasya Üçlemesi – III, Kafkaslar, 1989-2009*, İstanbul: Nobel Yayınevi, 315-348.
- 2012, *Atılım için Bilişim: Türkiye Ekonomisi için Bilgi ve İletişim Teknolojileri Sektörü Eliyle Atılım Stratejisi* (with Ü. İzmen, Y. Kılıçaslan, D. Sönmez and Y. Üçdoğruk), İstanbul: TUBİSAD.
- 2011, *Uluslararası Üretim Zincirlerinde Dönüşüm ve Türkiye'nin Konumu* (with K. Yılmaz and E. Voyvoda), İstanbul: TUSIAD/EAF [www.metu.edu.tr/~etaymaz/uuz].
- 2011, “Trade, Technology and Skills: Evidence from Turkish Microdata” (with E. Meschi and M. Vivarelli), *Labour Economics* (18): S60-S70.
- 2010, “The Effectiveness of Crisis Measures: The Case of Motor Vehicles Industry”, in Ü. Efendioğlu (ed.), *Crisis and Turkey: Impact Analysis of Crisis Response*, Ankara: ILO, pp. 41-72. [Turkish version, “Kriz Tedbirlerinin Etkinliği: Motorlu Kara Taşıtları Sanayii Örneği”, Ü. Efendioğlu (der.), *Kriz ve Türkiye: Kriz Tedbirlerinin Etki Değerlendirmesi*, Ankara: ILO, ss. 43-74.]
- 2010, “Entry, Exit and Productivity in Turkish Manufacturing Industries” (with T. Pamukçu and K. Sekkat), in K. Sekkat (ed.), *Market Dynamics and Productivity in Developing Countries: Economic Reforms in the Middle East and North Africa*, Springer, pp.109-143.
- 2009, “Industrial Restructuring and Technology Policy in Turkey”, (with E. Voyvoda), in Z. Öniş and F. Şenses (eds.), *Turkey and the Global Economy: Neo-Liberal Restructuring and Integration in the Post-Crisis Era*, Routledge, pp. 145-172.
- 2009, “Development Strategy and Evolution of Turkey’s Innovation System”, in J.H. Suh (ed.), *Models for National Technology and Innovation Capacity Development in Turkey*, Seoul: Korea Development Institute, pp. 63-104.
- 2009, “Economics of Small States and Globalization: Lessons for the Caucasus”, in E. Özgür (ed.), *The North Caucasus: Histories, Diasporas and Current Challenges*, New York: Social Science Research Council and Ankara: Kafdav, pp. 47-60.
- 2009, “Overcoming the Double Hurdles to Investing in Technology: R&D Activities of Small Firms in Developing Countries” (with Y. Üçdoğruk), *Small Business Economics* (33): 109-128.

- 2009, "History Matters for the Export Decision: Plant Level Evidence from Turkish Manufacturing Industry" (with Ş. Özler and K. Yılmaz), *World Development* (37): 479-488.
- 2008, *KOBİ'lerde Dönüşüm: Küçük Firmaların Büyük Başarıları [SMEs' Transformation: Big Successes of Small Firms]* (with A. Filiztekin, M. Fisunoğlu, Y. Kılıçaslan and A. Lenger), İstanbul: Türkonfed.
- 2008, "Labor Market Institutions and Industrial Performance: An Evolutionary Study" (with Y. Kılıçaslan), *Journal of Evolutionary Economics* (18): 477-492.
- 2008, "The Impact of Electricity Market Liberalization in Turkey: 'Free Consumer' vs Distributional Monopoly Cases" (with S. Bahçe), *Energy Economics* (30): 1603–1624.
- 2008, "R&D Support Programs in Developing Countries: The Turkish Experience" (with E. Özçelik), *Research Policy* (37): 258-275.
- 2007, *Integration with the Global Economy: The Case of Turkish Automobile and Consumer Electronics Industries* (with K. Yılmaz), Background paper prepared for the Commission on Growth and Development, World Bank.
- 2007, "Foreign Ownership, Competition, and Survival Dynamics" (with Ş. Özler), *Review of Industrial Organization* (31): 23-42.
- 2007, "Vision 2023: Turkey's National Technology Foresight Program – A Contextualist Description and Analysis" (with O. Saritas and T. Tumer), *Technological Forecasting and Social Change* (74): 1374–1393.
- 2007, "Assessing the Effectiveness of Incubators: The case of Turkey" (with I.S. Akcomak), in V. Venkata Ramani and A.V. Bala Krishna (eds.), *Business Incubation: An Introduction*, Icfai Books, Icfai University Press: Hyderabad, pp. 234-265.
- 2007, "Productivity and Trade Orientation: Turkish Manufacturing Industry Before and After the Customs Union" (with K. Yılmaz), *Journal of International Trade and Diplomacy* (1): 127-154.
- 2007, "El espíritu emprendedor, el tamaño de lanzamiento y la supervivencia de los pequeños empresarios" [Entrepreneurship, Start-up Size and Selection: Why do Small Entrepreneurs Fail?] (with M.Y. Köksal), *Ekonomiaz: Basque Economics Journal* (62/2): 70-99.
- 2006, "Who Benefits from Training and R&D, the Firm or the Workers?" (with G. Ballot and F. Fakhfakh), *British Journal of Industrial Relations* (44): 473-495.
- 2006, "To Innovate or to Transfer? A Study on Spillovers and Foreign Firms in Turkey" (with A. Lenger), *Journal of Evolutionary Economics* (16): 137-153. [Re-printed in F. Malerba and U. Cantner (eds.), *Innovation, Industrial Dynamics and Structural Transformation: Schumpeterian Legacies*, 2007, Springer, pp. 303-319.]
- 2006, "Transferring the Risks of Failure: Entrepreneurship and Firm Dynamics in Turkish Manufacturing" (with K. Orhan and A. Güneş), in E. Santarelli (ed.), *Entrepreneurship, Growth, and Innovation: The Dynamics of Firms and Industries*, International Studies in Entrepreneurship, Vol. 12, Springer, pp. 243-260.
- 2006, "Sınai Yapı, Yapısal Değişim ve Üretkenlik" (with Y. Kılıçaslan), *İktisat, İşletme ve Finans* (247): 5-23.
- 2005, *Fast Moving Consumer Goods: Competitive Conditions and Policies* (with A. Çelen and T. Erdoğan), Ankara: TEPAV [Reprinted in R.S. Khemani (ed.), *Türkiye'de*

- Rekabetçilik ve Düzenleme: Türkiye’de Rekabetçilik, Yatırım İklimi ve Rekabet Politikasının Rolü*, Ankara: TEPAV, 2007, pp. 189-239].
- 2005, “Are Small Firms Really Less Productive? An Analysis of Productivity Differentials and Firm Dynamics”, *Small Business Economics* (25): 429-445.
- 2005, “Determinants of Subcontracting and Regional Development: An Empirical Study on Turkish Textile and Engineering Industries” (with Y. Kilicaslan), *Regional Studies* (39): 633-645.
- 2005, “Firm Turnover and the Rate of Macro Economic Growth – Simulating the Macroeconomic Effects of Schumpeterian Creative Destruction” (with G. Eliasson and D. Johansson), in G. Eliasson (ed.), *The Birth, the Life and the Death of Firms*, Stockholm: Ratio Institute, pp. 305-356.
- 2005, “Dynamic Capability, Innovation Networks and Foreign Firms: The Turkish Case” (with A. Lenger), in G. Santangelo (ed.), *Technological Change and Economic Catch-up: The Role of Science and Multinationals*, Edward Elgar, pp. 125-150.
- 2005, “Labor Market Policies and EU Accession: Problems and Prospects for Turkey” (with Ş.Özler), in B. Hoekman and S. Togan (eds.), *Turkey: Economic Reform and Accession to the European Union*, Washington, DC: World Bank and CEPR, pp.223-260.
- 2005, *Türkiye’de Verimlilik, Büyüme ve Kriz* (with H. Suiçmez), 4. Verimlilik Raporu, Ankara: MPM.
- 2005, “ODTÜ Bilimsel Araştırma Yetenekleri ve Potansiyeli” [METU Scientific Research Capabilities and Potential] (with D. Üner ve T. Tümer), *İktisat, İşletme ve Finans*, 227 (February): 34-50.
- 2004, “Simulating the New Economy” (with G. Eliasson and D. Johansson), *Structural Change and Economic Dynamics* (15): 289-314.
- 2004, “Does Innovativeness Matter for Competitiveness in Developing Countries? The Case of Turkish Manufacturing Industries” (with E. Özçelik), *Research Policy* (33): 409-424.
- 2004, “Tekstil ve Hazır Giyim Sanayiilerinde Uluslararası Rekabet” [International Competitiveness in Textile and Clothing Industries] (with O. Eruygur and E. Özçelik), *İktisat, İşletme ve Finans*, 217 (April): 5-23. [Reprinted in A. Bilge and H. Ersel (eds.), *Gümrük Birliği ve Türkiye Sanayisi Üzerine Etkileri*, Ankara: TEPAV, 2007, pp. 59-87.]
- 2003, “Unutulan Bir Toplumsal Amaç: Sanayileşme Ne Oluyor? Ne Olmalı? [A Forgotten Social Objective: Industrialization]” (with F. Şenses), in A.H. Köse, F. Şenses and E. Yeldan (eds.), *İktisadi Kalkınma Kriz ve İstikrar*, İstanbul: İletişim.
- 2002, “KOBİ’ler ve İhracata Dayalı Sanayileşme [SMEs and Export-led Industrialization]”, *Tes-İş Dergisi*, No 4, 41-45.
- 2001, *Ulusal Yenilik Sistemi: Türkiye İmalat Sanayiinde Teknolojik Değişim ve Yenilik Süreçleri* [National System of Innovation: Processes of Innovation and Technological Change in Turkish Manufacturing Industry], Ankara: TUBITAK/TTGV/SIS.
- 2001, “Privatization, Ownership and Technical Efficiency: A Study on Turkish Cement Industry” (with Ş. Saygılı), *Annals of Public and Cooperative Economics*, 72: 581-605.
- 2001, “Firms’ Human Capital, R&D and Performance: A Study on French and Swedish

- Firms" (with G. Ballot and F. Fakhfakh), *Labour Economics*, 8: 443-462.
- 2001, "Training Policies and Economic Growth in an Evolutionary World" (with G. Ballot), *Structural Change and Economic Dynamics*, 12: 311-329.
- 2001, "Small and Medium-Size Enterprises in Turkish Manufacturing Industries", *Journal of Economic Cooperation* (22): 43-72.
- 2000, "Competition, Training, Heterogeneity Persistence, and Aggregate Growth in a Multi-agent Evolutionary Model" (with G. Ballot), *Applications of Simulation to Social Sciences*, Paris: Hermes, pp.335-351.
- 2000, "Institutions, Entrepreneurship, Economic Flexibility and Growth" (with G. Eliasson), in S. Klepper, H. Hanusch and U. Cantner (eds.) *Economic Evolution, Learning, and Complexity*, Heidelberg: Springer/Physica, pp.265-286.
- 2000, "Teknolojik Gelişme ve Piyasa Yapısı: İmalat Sanayii Üzerine Bir İnceleme", *Perşembe Konferansları 6*, Ankara: Rekabet Kurumu.
- 2000, "Türkiye'de AR-GE Destek Programları: Bir Değerlendirme", *III: Teknoloji Kongresi Bildirileri*, Ankara: TÜBİTAK, TTGV, TÜSİAD, pp. 165-174.
- 1999, "Technological Change, Learning, and Macro-economic Coordination: An Evolutionary Model" (with G. Ballot), *Journal of Artificial Societies and Social Simulation*, 4 (2) [<http://www.soc.surrey.ac.uk/JASSS/JASSS.html>].
- 1999, "Yerel Gelişme ve Teknik Etkinlik", *İçel Sanayisini Geliştirme Sempozyumu*, Ankara: DİE and Mersin Ticaret ve Sanayi Odası, pp. 277-292.
- 1999, "Trade Liberalization and Employment Generation: The Experience of Turkey in the 1980s", in Ana Revenga (ed.), *Turkey: Economic Reforms, Living Standards, and Social Welfare Study*, Vol II Technical Papers, Washington, D.C.: World Bank.
- 1998, "Human Capital, Technological Lock-in and Evolutionary Dynamics" (with G. Ballot), in G. Eliasson and C. Green (eds.), *Microfoundations of Economic Growth: A Schumpeterian Perspective*, Ann Arbor: The University of Michigan Press, 301-330.
- 1998, "Formation Continue, Recherche et Développement et Performance des Entreprises" (with G. Ballot and F. Fakhfakh), *Formation Emploi*, n.64, 43-58.
- 1998, "Règles D'Allocation des Ressources aux Investissements Immatériels par les Entreprises et Coordination Macroéconomique: Un Modèle S'Apprentissage" (with G. Ballot), *Mélanges Vincens*, Toulouse: Presses de l'Université des Sciences Sociales de Toulouse, 235-248.
- 1998, *KİT Sisteminin İktisadi Değerlendirilmesi: Nicel İrdeleme, Özelleştirme Sorunları ve Politika Seçenekleri* (with K. Boratav, Y. Kepenek, T. Bali, M.A. Candan ve İ. Ertuğrul), Ankara: KİGEM.
- 1998, "Kamu İşletmeleri ve Özelleştirme Deneyimi: Sorunlar ve Politika Seçenekleri" (with K. Boratav, Y. Kepenek, T. Bali, M.A. Candan ve İ. Ertuğrul), *Toplum ve Bilim*, n.77, 100-134.
- 1998, "Türkiye İmalat Sanayiinde Teknolojik Değişme ve İstihdam", in T. Bulutay (ed.), *Teknoloji ve İstihdam*, Ankara: DİE, pp. 179-217 (Also published as "Technological Change and Employment in Turkish Manufacturing Industries", in T. Bulutay (ed.), *Technology and Employment*, Ankara: SIS, pp. 185-223).
- 1997, "The Dynamics of Firms in a Micro-to-macro Model with Training, Learning, and Innovation" (with G. Ballot), *Journal of Evolutionary Economics* (7), 435-457.

- 1997, "Technical Change and Efficiency in Turkish Manufacturing Industries" (with G.Saatçi), *Journal of Productivity Analysis* (8), 461-475.
- 1997, "Micro-Macro Simulation of Technological Systems: Economic Effects of Spillovers" (with B.Carlsson and G.Eliasson), in B.Carlsson (ed.), *Technological Systems and Industrial Dynamics*, Boston: Kluwer, 255-278.
- 1997, *Small and Medium-sized Industry in Turkey*, Ankara: SIS.
- 1997, "Esnek Üretime Dayalı Bir Rekabet Stratejisi Geliştirilebilir mi? Türkiye'de Fason Üretim", *Petrol İş Yıllığı*, 1996, İstanbul: Petrol İş, 707-715.
- 1996, "Firm Sponsored Training, Technical Progress and Aggregate Performance" (with G.Ballot), in A.Harding (ed.), *Microsimulation and Public Policy*, Amsterdam: North Holland, 421-451.
- 1996, "Türkiye Mühendislik Sanayilerinde Teknolojik Yapı", *Cumhuriyet Dönemi Türkiye Ansiklopedisi*, vol 15, İstanbul: İletişim, 374-378.
- 1995, "Türkiye Çimento Sanayiinde Özelleştirme ve Teknik Etkinlik [Privatization and Technical Efficiency in Turkish Cement Industry]" (with Ş.Saygılı), *METU Studies in Development* (23): 405-426.
- 1995, "Emek ve Üretim Sürecindeki Değişmeler [Labor and Changes in Production Systems]", *Değişim Sürecinde Türkiye Sanayii Sempozyumu*, Ankara: TMMOB, 62-70.
- 1995, "The Importance of Economic Competence in Economic Growth: A Micro-to-Macro Analysis" (with B.Carlsson), in B.Carlsson (ed.), *Technological Systems and Economic Performance: The Case of Factory Automation*, Dordrecht: Kluwer, 359-390.
- 1994, "Factory Automation and Economic Performance: A Micro-to-macro Analysis" (with B.Carlsson and K.Tryggestad), in O.Granstrand (ed.), *Economics of Technology*, Amsterdam: Elsevier, 37-64.
- 1994, "Flexible Technology and Industrial Structure in the US" (with B.Carlsson), *Small Business Economics* (6): 193-209.
- 1993, "Technological Capabilities and International Competitiveness in the Engineering Industries" (with B.Carlsson), *Review of Industrial Organization* (8): 293-313.
- 1993, "Teknoloji ve Kriz [Technology and the Crisis]", *Toplum ve Bilim* (56): 5-41.
- 1993, "Sanayi ve Teknoloji Politikaları [Industrial and Technology Policies]", *METU Studies in Development* (20): 549-80.
- 1992, "A Description of the Initial 1982 and the 1990 Databases", in J.W.Albrecht *et al.*, *MOSES Database*, Stockholm: IUI, 137-80.
- 1992, "Initial State Dependency", in J.W.Albrecht *et al.*, *MOSES Database*, Stockholm: IUI, 325-41.
- 1992, "The Minimum Data Requirements to Start and Run MOSES" (with J.Nielsen), in J.W.Albrecht *et al.*, *MOSES Database*, Stockholm: IUI, 343-53.
- 1991, "Flexible Automation in the US Engineering Industries", *International Journal of Industrial Organization* (9): 557-72.
- 1991, "The Impact of Trade Unions on the Diffusion of Technology: The Case of NC Machine Tools", *British Journal of Industrial Relations*, (29): 305-311.
- 1991, *MOSES on PC - Manual, Initialization, and Calibration*, Stockholm: IUI.

- 1990, “A Micro-simulation Analysis of Manufacturing Firms' Demand for Telecommunication Services”, in G.Eliasson *et al.*, *The Knowledge Based Information Economy*, Stockholm: IUI, 157-82.
- 1989, “Types of Flexibility in a Single-machine Production System”, *International Journal of Production Research* (27): 1891-9.
- 1989, “İmalat Teknolojisindeki Gelişmeler ve Mühendislik Sanayileri [New Manufacturing Technologies and the Engineering Industries]”, *1989 Sanayi Kongresi Bildirileri*, 1989, Cilt 1, Ankara: MMO, 72-76 [Reprinted in *Endüstri Mühendisliği* (1): 10-4].
- 1986, “Sınai Kalkınmada Takım Tezgahları Sanayinin Rolü ve Türkiye Örneği [The Role of the Machine Tool Industry in Industrial Development: The Turkish Case]”, (with E.Özmen), in *III. Teknoloji Kongresi Bildirileri*, Ankara: The Ministry of Technology and Industry.

Awards and scholarships

- | | |
|------|---|
| 1998 | Research and Encouragement Award, Turkish Academy of Sciences (TÜBA) |
| 1994 | Research and Encouragement Award, METU Mustafa Parlar Research and Education Foundation |
| 1989 | Graduate Alumni Award, Case Western Reserve University |
| 1978 | Young Scientist Scholarship, Scientific and Technical Research Council of Turkey |
| 1975 | Young Scientist Scholarship, Scientific and Technical Research Council of Turkey |

Thesis supervision (since 2010)

- | | |
|------|---|
| 2015 | “Patterns of Firm Growth in the Turkish Manufacturing Industry”, Ph.D. Thesis by Ünal Tongür |
| 2014 | “The Performance of University Research Infrastructures in Turkey”, Ph.D. Thesis by Pelin Deniz Tekneci |
| 2013 | “Persistence of Informal Employment in Turkey”, Ph.D. Thesis by Zeynep Başak |
| 2011 | “Informal Wage Gap in Turkey,” M.S. Thesis by Sine Tuç |
| 2010 | “Demand Estimation, Relevant Market Definition and Identification of Market Power in Turkish Beverage Industry”, Ph.D. Thesis by Ekrem Kalkan |
| 2010 | “Software Size Estimation Performance of Small and Medium-Sized Firms in Turkey”, M.S. Thesis by Erdem Çolak |
| 2010 | “Growth of Capitalism: How does Innovation Reinforce Capitalism in the Progress of its Authority?”, M.S. Thesis by Ömer Ersin Kahraman |
| 2010 | “Agglomeration as Innovation Dynamics: A Case Study in Adana and Mersin Regions”, M.S. Thesis by Dilşad Türtük Yünsel |

Teaching responsibilities

ECO 280	Engineering Economics
ECON 411	Economics of Networks and the Internet
ECON 413	Introduction to Data Science
ECON 353	International Economics I
ECON 444	Economics of Innovation
ECON 448	Technology and Industrial Dynamics
ECON 451	Industrial Economics
ECON 498	Labor Economics
ECON 651	Advanced Industrial Organization
ECON 691	Economics of Technology Policy
ECON 692	Evolutionary Economics

Professional activities and organizations

2015-Present	Member, The Science Academy (Bilim Akademisi), Turkey
2011-Present	Associate Editor, Journal of Productivity Analysis
1997-Present	Research Associate, Economic Research Forum, Cairo
1996-Present	Treasurer, Economic Research Center, METU

Refereeing

Adaptive Behavior
Boğaziçi Journal
Bulletin of Economic Research
Comparative Technology Transfer and Society
Economics of Innovation and New Technology
Ekonomiaz, Basque Economics Journal
Electronic Journal of Evolutionary Modelling and Economic Dynamics
Emerging Markets, Trade and Finance
European Journal of Operations Research
Eurasian Business Review
Frontiers in Finance and Economics
Industrial Relations
Industry and Innovation
Industrial and Corporate Change
International Business Review
International Journal of Electrical Power and Energy Systems
International Journal of Innovation and Technology Management
International Journal of Production Research
International Journal of Technology Management
International Small Business Journal
İktisat, İşletme ve Finans
Journal of Artificial Societies and Social Simulation
Journal of Comparative Economics

Journal of Evolutionary Economics
Journal of Industrial Ecology
Journal of Productivity Analysis
Journal of Socio-Economics
METU Studies in Development
New Perspectives on Turkey
Research Policy
Review of Industrial Organization
Singapore Economic Review
Small Business Economics
Structural Change and Economic Dynamics
Technological Forecasting and Social Change
Toplum ve Bilim
Turkish Studies
World Development
Yapı Kredi Economic Review