

March 2026

**Curriculum Vitae  
of  
Krishna T. Kumar**

**EDUCATIONAL QUALIFICATIONS**

- Ph.D. (Economics) from Iowa State University, Ames, Iowa, U.S.A. 1965.
- Postgraduate Diploma in Statistics . (Equivalent to M.S. in Statistics.) from Indian Statistical Institute, Kolkata, India, 1961. The Last batch of the certificate course before M.Stat was started in 1960.
- B.Sc. (Honours.) (Mathematical Physics) from Andhra University, Waltair, India, 1959. (First class and first rank in the university: Magna Cum Laude)

**PROFESSIONAL EXPERIENCE**

- Director, Rockville Analytics, Rockville, MD. 20850.-2011-
- Adjunct Professor, Department of Statistics, George Washington University-2012- 2016
- Adjunct Professor, Department of Mathematics and Statistics, University of Maryland University College, Maryland.(2011-2015)
- Managing Director, Samkhya Analytica (India) Pvt. Ltd., a Management Consultancy organization in the field of business analytics (2008-2010)
- Adjunct Professor, Indian Institute of Management, Bangalore, 2000-2010.
- Adjunct Professor, Department of Management Studies, Indian Institute of Science, Bangalore-2001, Jan-May.
- Sir Ratan Tata Endowment Trust Visiting Fellow, Institute for Social and Economic Change, Bangalore-Sept-December 2003.
- Visiting Professor, School of Management, Arizona State University-West, Phoenix, AZ. May 1999-May 2000.
- Professor of Economics and Head, Economic Analysis Unit, Indian Statistical Institute, Bangalore, India, January 1995-May 1999.
- Professor of Econometrics and Head, Quantitative Analysis Unit, Institute for Social and Economic Change, Nagarabhavi, Bangalore, India, 1991-1995.
- Professor of Economics, Department of Economics, University of Hyderabad, Hyderabad, India, 1986-1991.
- Professor of Economics and Statistics, and Chairman, Centre for Human Settlements and Environmental Studies (CHES), at Indian Institute of Management, Bangalore, India, 1978-1986.
- Director, Institute for Behavioral Research, Florida Atlantic University, Boca Raton, Florida, U.S.A., 1977-78.
- Professor of Economics, Department of Economics, Florida Atlantic University, Boca Raton, Florida, U.S.A. (concurrently with the above position), 1977-78.
- Senior Social Scientist, Abt Associates Inc. Cambridge, Massachusetts, U.S.A. 1974-1977.
- Visiting Professor, Department of Economics, Northeastern University, Boston, Massachusetts, U.S.A. 1976-1977 (Concurrently with the above position).

- Associate Professor of Economics, Department of Economics, Florida State University, Tallahassee, Florida, U.S.A. 1972-1975.
- Assistant Professor of Economics and Statistics, Departments of Economics and Statistics, Florida State University, Tallahassee, Florida, U.S.A. 1969-1972.
- Faculty member, Statistical Consulting Center, Department of Statistics, Florida State University, Tallahassee, Florida (Concurrently with the above position)
- Visiting Assistant Professor, Department of Economics, Iowa State University, Ames, Iowa, U.S.A., 1968-1969.
- Assistant Professor of Economics, Department of Humanities and Social Sciences, Indian Institute of Technology, Kanpur, India, 1966-1968.
- Postdoctoral Fellow, Center for Research in Management Science, University of California, Berkeley, California, U.S.A., 1965-1966.
- Research Assistant, Department of Economics, Iowa State University, Ames, Iowa, U.S.A., 1962-1965.
- Research Scholar, Planning Unit, Indian Statistical Institute, Calcutta 1961-1962.

## **MEMBERSHIP IN PROFESSIONAL BODIES AND SOCIETIES**

Member, Working Group on Research and Evaluation for the President's Council on Diversity and Inclusion, George Washington University, Washington, D.C.

Member of Econometric Society (1962-80)

Member American Economic Association, (1969-1980)

Life Member of Indian Society of Probability and Statistics

Life Member of The Indian Econometric Society

Life Member of Indian Science Congress Association

Life Member of Indian Statistical Institute Association

Life Member of CR Rao Advanced Institute for Mathematics, Statistics, and Computer Science

## **THESIS SUPERVISION**

Supervised eight Doctoral candidates, four in U.S.A. and four in India

Supervised two M.Phil. candidates.

## **TEACHING EXPERIENCE AND INTERESTS**

Taught Econometrics, a Graduate Course, in the Department of Statistics, George Washington University, Washington, D.C. Since 2012.

Graduate Courses: Econometrics, Quantitative Methods for Business (Business Analytics), Open Macroeconomics, Microeconomics, Managerial Economics, Mathematical

and Statistical Methods for Economists, Experimental Economics

Undergraduate Courses: Discrete Mathematics/Linear Algebra, Introduction to probability and statistics, Principles of economics, Linear programming, Game theory, Calculus.

## **CURRENT RESEARCH INTERESTS**

Causal modeling using Directed Acyclic Graphs and Path Analysis.

Business Analytics, macroeconomic policy coordination, micro econometric foundations of macroeconomics, poverty, deprivation, and human development

A unifying theme behind all of my professional work is “Quantitative Approaches to Economic and Business Policy”

An international conference on Quantitative Approaches to Public Policy was organized by my former students and colleagues at the Indian Institute of Management, Bangalore on August 9-12, 2009 to felicitate me on my 70<sup>th</sup> birthday. Selected papers from that conference are brought out as special issues edited by my former students Professor Sushanta Mallick of Queen Mary’s, University of London and Professor Srijit Mishra, Indira Gandhi Institute for Development Research, Mumbai, India in *International Journal of Economic Policy in Emerging Economies (IJEPEE)* (September 10, 2010), *International Journal of Trade and Global Markets (IJTGM)*, Vol. 4:2: 2011., and in *Journal of Quantitative Economics*, Vol. 9, No.1. 2011.

## **POLICY RESEARCH PROJECTS UNDERTAKEN**

- Principal Investigator, Methodology for Studying the Judicial Impact Assessment of any New Legislation on judicial system, for the Supreme Court of India, Samkhya Analytica India Pvt. Ltd. (2007-2008)
- Principal Investigator, Willingness to Pay for Drinking Water by the Poor in Bangalore, Subcontracted from Australian Agency for International Development (2000-2001)
- Principal Investigator, Social Benefit Cost Analysis of Middle Vaitarani Reservoir Scheme of Drinking Water Supply to Greater Bombay, Sub-contract from, National Institute of Environmental Engineering, Nagpur, University of Hyderabad (1989-91)
- Principal Investigator, Research Study on Pricing and Costing of Health Services in India, for UNDP, Institute for Social and Economic Change, Bangalore, 1993-94.
- Co-Principal Investigator, Social Cost Benefit Analysis of Ganga-Brahmaputra Link Canal, for Central Water Commission, India, Indian Institute of Management, Bangalore (1983-85)
- Co-Principal Investigator, The Effect of Rent Control on Housing Situation in Bangalore for the World Bank, Indian Institute of Management, Bangalore (1982-83)
- Co-Principal Investigator, Social Cost Benefit Analysis of a new metropolitan suburban rail link between old Bombay (Mumbai) and New Bombay (Navi Mumbai), for Bombay Metropolitan Regional Development Authority, Indian Institute of Management, Bangalore (1979-81)
- Principal Investigator, Economics of the Housing Sector in India, for Indian Council of Social Science Research (1978-79)
- Co-Principal Investigator, Measurement of Productivity of Budgeting Function in State Governments, Universities and Hospitals for National Science Foundation (under competitive bidding for the Research Applied to National Needs, RANN program of NSF), Abt Associates Inc, Cambridge, Ma.(1976-77)
- Co-Principal Investigator, Analysis of Prospective Reimbursement Scheme in Hospitals in Upstate New York; analysis of a social experiment for the Social Security Administration, Abt Associates Inc, Cambridge. Ma.(1975-76)
- Also served as an in-house statistical consultant for problems dealing with multiple regression packages of SPSS on main frame CDC computer, Abt Associates, Cambridge, Ma. (1975-77)
- Directed a part of statistical analysis (determinants of participation behavior) of a

large data base drawn from social housing demand experiment conducted for the US Department of Housing and Urban Development, Abt Associates Inc, Cambridge, Massachusetts (1975-77)

- Co-Principal Investigator, Economics of aquaculture, for US AID, US State Department, Department of Economics, Florida State University, (Summer 1974)

## LIST OF PUBLICATIONS

Professional Articles in Journals and Papers in Proceedings

### 2021-2026

“An Economic Optimization Model of an E-Waste Supply Chain Network: Machine Learned Kinetic Modelling for Sustainable Production”, ( With Debnath Biswajit, and Chattopadhyay, Amit Kumar), *Sustainability*, 2024, 16, 6491, <https://doi.org/10.3390/su16156491>

- "A Tribute to the Centenarian Statistician C.R. Rao" (with Arni R. Srinivasa Rao, and Pramod Kumar Pathak), *The Survey Statistician*, January, 2024.
- "Professor C.R. Rao, the Founder President of the Indian Econometric Society Awarded the International Prize in Statistics", *Journal of Quantitative Economics*, , Vol. 21, August, 2023, pp.473-480.
- "An Operational Research Approach to Economic Policy: A Legacy Left Behind by Prof. P.C. Mahalanobis and the Indian Statistical Institute", *Professor P.C. Mahalanobis Memorial Lecture (Statistics Day Lecture, Reserve Bank of India*, June 29, 2022.
- "On Characterization of Probability Distributions with Applications in Econometrics: A Centennial Tribute to C. R. Rao", (with B.L.S. Prakasa Rao), *Journal of Quantitative Economics*, Vol. 19, pp. 181-205, 2021.

### 2020-2011

- "Dr C.R. Rao's Contributions to the Advancement of Economic Science" (with H.D. Vinod, and Suresh Deman), *Proceedings of the Indian Academy of Sciences (Mathematical Sciences)*, 130-45, <https://doi.org/10.1007/s12044-020-00584-6>
- “A Social Engineering Model for Poverty Alleviation” (with Amit Kumar Chattopadhyay and Iain Rice, provisionally accepted *Nature-Communications*, July 2020. “Contributions of Dr. CR. Rao to the Advancement of Economic Science”, (with H.D. Vinod, and Suresh Deman), *Proceedings of the Indian Academy of Sciences, Mathematical Sciences*, Vol. 130, July 2020.
- “Poverty Index with Time- varying consumption and income distribution”, (with Amit Kumar Chattopadhyay, and Sushanta Kumar Mallick), *Physical Reviews E*, 95, 2017, (032109)-pp.1-11
- “Building Credible Brackish-water Open Macroeconomic Models”, *Journal of Indiana Academy of Social Science*, Vol. 16, No. 2, Fall-Winter 2013, pp. 1-17.
- "Importance of Nonparametric Density Estimation in Econometrics with Illustrations”, (With Joseph Markmann), *Journal of Quantitative Economics*, Vol. 9, No. 1. January, 2011, pp. 18-40.

### 2010-2001

- “A Model of North-South Growth and Trade as a Differential Game Problem with an Empirical Illustration”, *India Economic Review*, September 2009, pp. 56-62.
- “Understanding the Educational System-An Eco-behavioral Approach”, *Economic and Political Weekly*, June 6, 2009, pp 61-69.
- “Estimating Consumption Deprivation in India Using Survey Data: A State-Level Rural-Urban Analysis Before and during reform Period”, (with Sushanta K. Mallick and Jayarama Holla), *Journal of Development Studies*, Vol. 45, Issue 4, April 2009, pp.441-470.
- “Need for Cutting Edge Statistical Modeling for Business Analytics”, *IIMB Management Review*, Vol. 21, No. 1, March 2009, pp.70-83.
- “Finding the First Hardy-Ramanujan Number Using EXCEL”, *Mathematics in School*, Vol. 38, No.1, January 2009.
- “IIM Review Committee Report-A Critical Examination”, *Economic and Political Weekly*, December 27, 2008, pp 17-21.
- “Engel Curve Method for Measuring Poverty”, P.V. Sukhatme Memorial Lecture, (with Jayarama Holla and Puja Guha), *Economic and Political Weekly*, July 26, 2008, pp 115-123.
- “Social Science Education and Research”, *Economic and Political Weekly*, April 5, 2008, pp 68-71.
- “Financial Modeling: From a Narrow Scope to a Broader Perspective”, *ICFAI Journal of Management Research*, Vol. 6, No. 11, August 2007, pp.71-83.
- “Some Basic Issues in Statistical Modeling in Social Sciences”, *Economic and Political Weekly*, July 21, 2007, pp.3027-3035.
- “Economic Models for Optimum Attrition Rate” (with Ashutosh Kulshreshtha), *IIMB Management Review*, June 2005. pp. 103-108.
- “Disclosure Norms for Intangible Assets: Suggestions for Improving the Valuation of Intangibles”, *IIMB Management Review*, Vol. 17, No. 1, March 2005, pp. 71-78.
- “Economic Growth and Productivity Gains from Capital Inflow: A Reply”, *Journal of Quantitative Economics*, Vol. 3, No. 1, New Series, January 2005, pp. 161-163.
- “VAR and Impulse-Response: A Note”, *Journal of Quantitative Economics*, Vol. 2(New Series), No. 1. January 2004, pp-178-181.
- "Economic Growth, Productivity Gains And Foreign Capital: A Comment", *Journal of Quantitative Economics*, Vol. 17, No. 2, July 2001, New Series, Vol. 1, No. 1, July 2003, pp.-156-159.
- “Linear Liquidity Preference Function Admitting A Liquidity Trap With Application To India”, (with Sushanta K. Mallick) in *Asia Pacific Journal of Economics and Business*, Vol. 5, No. 2, December 2001,pp.67-81.

## 2000-1991

- “The Nuclear Option: Some Economic and Strategic Issues”, *Economic and Political Weekly*, February 7-13, 1999.
- “Models of North-South Trade, Growth, and Development as Differential Game Problems, in L. Caccetta, K.L. Teo, P.F. Siew, Y.H. Leung, L.S. Jennings, and V. Rehbock (Editors) Optimization Techniques and Applications, Vol.1, pp204-209. (*Proceedings of the 4th International Conference on Optimization: Techniques and Applications*, Curtin University of Technology, Perth, Australia, July 1-3, 1998). Also appeared with the same title in *Economic and Political Weekly*, Vol. 34, No. 5, January 31, 1998, pp.233-238.
- “The Probability of Existence of Pure-Strategy Equilibria in Stochastic Matrix

- Games”, (with Srijit Mishra), in B. Dutta, T. Parthasarathy, J. Potters, T.E.S. Raghavan, D. Ray and A. Sen (Editors) *Game Theoretic Applications to Economics and Operations Research*, Kluwer Academic Publishers, 1997. (Proceedings of the Second International Conference on Game Theory with Economic Applications. held by Indian Statistical Institute in January 1996 at Bangalore, India.
- "An Unfinished Biography: Prasanta Chandra Mahalanobis", *Economic and Political Weekly*, Vol. 32, No. 23, June 7-13, 1997, pp1321-1332.
  - "On the Probability of Existence of Pure Equilibria in Matrix Games" (with Srijit Mishra), *Journal of Optimization Theory and Applications*, Vol. 37, No. , September 1997, pp. .
  - “Silent Consensus Against the Washington Consensus”, *Economic and Political Weekly*, Vol. 32, No. 13, March 29, 1997, pp.657-662.
  - "Measurement of Poverty through Consumption Deprivation" (With V. Sitaramam, S.A. Paranjpe, A.P. Gore and J.G. Sastry), *Proceedings of the 32nd Annual Conference of the Indian Econometric Society*, Indian Statistical Institute, Bangalore, March 18-20, 1996.
  - "Minimum Needs of Poor and Priorities Attached to them", (with V. Sitaramam, S. A. Paranjpe, Anil P. Gore and J.G. Sastry), *Economic and Political Weekly*, Vol. 31, Nos. 35-37, Special Number, 1996, pp. 2499-2505.
  - "Management of Development in the Newly Emerging Global Economic Environment", *Economic and Political Weekly*, Vol. 31, No 235, June 22, 1996, pp.1598-1605.
  - "Some Conceptual and Statistical Issues on Measurement of Poverty", (with Anil P Gore and V Sitaramam), *Journal of Statistical Planning and Inference*, Vol. 49, No.1, 1996, pp 53-71.
  - "On Liberalizing Agricultural Trade: A Note of Caution from India's Experience with Tea Trade", *Economic and Political Weekly*, December 2, 1995 Vol. 30, No. 48, pp 3070-3074.
  - "Macroeconomic Adjustment in India: Policy and Performance in Recent Years" (with S K Mallick), *Journal of the Indian School of Political Economy*, Vol. 7, No. 1, March 1995, pp 44-68.
  - "Co integration and Error-Correction Models: A Historical and Methodological Perspective", *Journal of Quantitative Economics*, Vol. 11, No. 1, January 1995, pp 143-154.
  - "The Economics of Sharing Scientific and Social Information", *Current Science*, Vol. 68, No. 3, 10 February 1995, pp 238-239.
  - "A Non-econometric Review of Indian Macroeconomic Models" (with S K Mallick), *Artha Vijnana*, Vol. 37, No. 1, March 1995, pp 1-45.
  - "Mahalanobis' Contributions to Economic Planning", *Economie Appliquee*, 1994, No.2, pp 131-151.
  - "Estimation of Probability Density Functions With an Econometric Application", (with J M Markmann), *Indian Journal of Applied Economics*, Vol.3, Nos. 3 & 4, April-September 1994, pp.220-241.
  - "Cosmetics: A Fable on Corporate Image Building", *Journal of Institute of Public Enterprise*, Vol.16, Nos. 1 and 2, Jan-June 1993, pp.9-17.
  - "Measures of Poverty Suited to Design and Evaluate Poverty Alleviation Programmes", *Economic and Political Weekly*, Vol.29, December 25, 1993, pp.2893-2895.
  - "Fund-Bank Policies of Stabilization and Structural Adjustment: A Global and Historical Perspective", *Economic and Political Weekly*, Vol.28, No.17, April 24, 1993, pp.815-823.

- "The Probabilistic Approaches in Econometrics", *Journal of Quantitative Economics*, Vol.9, No.1, January 1993, pp.1-16.
- "Forgetting to Remember", *Economic and Political Weekly*, Vol.27, No.42, October 17, 1992, pp.2297-2301.
- "A note on Proxy Variables in Regression", *Journal of Quantitative Economics*, Vol.8, No.2, July 1992, pp.447-448.

## 1990-1981

- "The Need for a National Settlement and Housing Policy", *Journal of the Institute of Public Administration (JIPA)*, Regional Centre for Urban and Environmental Studies, Vol. 5, Lucknow University, Nos. 1-4, 1989-90.
- "Freight Transport Management in Indian Railways through Improved Wagon Utilization", (with D.M. Pradyumna and R.D. Saklani), in *IIMB Management Review*, Special Issue on Management of Public Systems, Vol.5, No.1, Jan, June, 1990, pp 1-17.
- "A Critical Review of the working of the Bangalore Development Authority", *Journal of Institute of Public Administration*, Regional Centre for Urban and Environmental studies, Lucknow University, Vol. 3, Nos. 1-4, 1988.
- "Rent Control in India: Its Economic Effects and Implementation in Bangalore", (with Vinod K. Tiwari), *Nagarlok*, Vol. XIX, No. 1 January, March, 1987, pp. 55-85.
- "Housing Sector: The System, its structure and some strategies", *IIMB Management Review*, Vol. 2, No.1, January 1987.
- "Determinants of Rural Travel: A Case Study in Tamil Nadu", (with P. Vijayaraghavan and K.M. Anantharamaiah), *High Way Research Bulletin*, No. 26, Traffic Engineering, Indian Roads Congress, New Delhi, January 1986, pp.69-101.
- "Individual Behaviour in Organizations: A Model of Organizational Crises," in *Proceedings of International Conference on Systems, Man and Cybernetics*, 1983, Institute of Electrical and Electronics Engineers, Bombay- New Delhi, January 1984, pp. 765- 770.
- "Nature and Scope of Health Economics. An Expository Note", *Health and Population: Perspectives and Issues*, Vol.5, No.3, 1982, pp. 198-212.
- "The Role of Economic Analysis in Public Policy on Housing" in a Special Issue on Urban Shelter, *Nagarlok*, an Urban Affairs Quarterly, Vol. XIV, No.2, April, June 1982, pp. 198-212.
- "Economics of Housing: A Select Bibliography" (with A. Ramamurthy and K. Arun) in a Special issue on Urban Shelter, *Nagarlok*, Vol. XIV, No.2, April, June, 1982.

## 1980-1971

- "Water Resources Projects as Instruments for Socioeconomic Justice", (with S. Shivaramu and A. Sundar) in *Proceedings of a Seminar on Water Management for Food Production*, Institution of Engineers, Mysore, December 1979.
- "An Application of Multiple Regression Model of a Poisson Process to the Murder Supply Equation", (with Wen Fu.P.Shih) in the *Proceedings of the Business and Economic Statistics Section of the American Statistical Association*, Annual Meetings, August 10, 1978, pp. 715-719.
- "Embodiment, Putty Clay, and Misspecification of the Directly Estimated CES", (with James H. Gapinski), *International Economic Review*, Vol.17, No.2, June

1976, pp. 472-483.

- "Estimating the Ex-Ante Elasticity of Substitution from Miss-specified Factor Proportion Equations: A Monte Carlo Study," (with James H. Gapinski), *Sankhya*, Vol. 37, Part C 1975, pp. 160-172.
  - "Multicollinearity in Regression Analysis," *Review of Economics and Statistics*, Vol.57, August 1975, pp. 365-366.
  - "Nonlinear Estimation of CES Production Parameters: A Monte Carlo Study," (with James H. Gapinski), *Review of Economics and Statistics*, Vol.56, No.4 November 1974, pp. 563-567.
  - "Nonlinear Estimation of CES Production Function: Sampling Distributions and Tests in Small Samples", (with James H., Gapinski), *Southern Economic Journal*, Vol.41, No.2. October 1974, pp. 258-266.
  - "Determination of Preference Functions and Optimal Allocation of Resources in a University", (with Jean M. David), in the *Proceedings of the Business and Economic Statistics Section of the American Statistical Association*, 1974, pp. 123-132.
  - "Soviet Postwar Economic Growth and Capital Labor Substitution- A Comment" (with Ephraim Asher), *American Economic Review*, Vol.64, March 1974, pp. 240-242.
  - "Errors in the Application of Recent Multicollinearity Tests", (with James H. Gapinski), Letter to the Editor, *American Statistician*, Vol.27, December 1973.
  - "Productivities of Farm and Non-farm Labor in a Dual Economy The case of Korea", (with Se Moon Chang), *Asian Forum*, Vol.5, No.3, July, September 1973, pp. 107-116.
  - "Nonlinear Estimation of CES Production Parameters: Sampling Distributions and Tests in Small Samples", (with James H. Gapinski), in the *Proceedings of the Business and Economic Statistics Section of the American Statistical Association*, 1973, pp. 429-434.
  - "Capital Labor Substitution and Technical Progress in Planned and Market Oriented Economies: A Comparative Study", (with Ephraim Asher), *Southern Economic Journal*, Vol. 40, No.1, July 1973, pp. 103-109.
  - "A Pearsonian Curve Fitting Algorithm", (with James H. Gapinski), *Econometrica*, Vol. 40, No.5, September 1972, p. 963.
  - "Crop Rotation Schemes for Optimal Utilization of Agricultural Land", (with S. Awasthi), *Indian Journal of Agricultural Sciences*, Vol. 42, No.6, June 1972, pp. 448-452.
  - "Some Considerations on a Class of Macroeconomic Production Functions," (with Frits J. de Jong) *De Economist*, Vol. 120, NR 2, 1972, pp. 134-152.
- 1970-1965
- "The Existence of an Optimal Economic Policy", *Econometrica*, Vol. 37, No. 4, October 1969, pp. 600-610.
  - "A Duality Theorem for a Class of Continuous time Linear Programming Problems", *Unternehmensforschung*, Vol. 10, No.4, 1966, pp. 224-236.
  - "The Functional Economic Area: Delineation and Implications for Economic Analysis and Policy", (with Karl A. Fox), *Regional Science Association Papers*, Vol.15, 1965, pp. 57-85.
  - "An Application of Sensitivity Analysis to a Linear Programming Problem", (with J. K. Sengupta), *Unternehmensforschung*, Vol.9, No.1, 1965, pp. 18-36.

### **Books and Chapters in Books:**

## 2010-2020

“Inclusive Poverty Index without a Poverty Line in the Tradition of Engel”, (with Amit Kumar Chattopadhyay and Sushanta Kumar Mallick), in R. Malia Saleth, S. Galab, and E. Revathy (Eds), *Issues and Challenges of Inclusive Development, Essays in Honour of Prof. R. Radhakrishna*, Springer, 2020

2011

- A Graduate Book published by John Wiley Publishers titled Developing Econometrics, by Hengqin Tong, T. Krishna Kumar, and Yangxin Huang.

2011-

- “Strategic Interaction and Macroeconomic Policy Coordination: An Outline of a New Differential Game Approach”, in Maurice Peixoto, Alberto Pinto and David Rand (Editors) *Dynamics, Games, and Science*, Springer Verlag, 2011.

2010-2001

- “A Policy Framework for Trade Policies of a Developing Country in a Global Economy”, in Amia Kumar Bagchi, Manabendu Chattopadhyay, and Ratan Khasnabis (Editors), *Economy and the Quality of Life: Essays in Memory of Ashok Rudra*, Dasgupta and Company, Kolkata, 2003, pp. 190-218.

2000-1991

- "Trade Reforms for Agricultural Commodities in Developing Countries: Some Lessons from the Experiences with Tea Trade of India, Sri Lanka, and Kenya", (with Ashok Mittal), Paper presented at a Seminar on Economic Reforms- An Indo-American Perspective, American Studies Research Centre, Osmania University, Hyderabad, February 18-19, 1996.

- “ A Strategic Approach to Economic Reforms in India”, in Tirthankar Roy (Ed), *Economic Reforms: The Next Step*, Proceedings of a Conference held by the Rajiv Gandhi Foundation and Rajiv Gandhi Institute for Contemporary Studies, Vol. II, Frank Brothers & Company, New Delhi, 1998.

- "The Functional Economic Area: Delineation and Implications for Economic Analysis and Policy" (with Karl A Fox), Reprinted in James R Prescott, Paul Van Moeseke, and Jati K Sengupta (Editors), *Urban-Regional Economics, Social System Accounts, and Eco-Behavioral Science: Selected Writings of Karl A Fox*, Iowa State University Press, 1994.

- "The Need for a National Settlement and Housing Policy", Reprinted in R N Sharma (Editor) *Indo-Swedish Perspectives on Affordable Housing*, Tata Institute of Social Sciences, Deonar, Bombay, 1994.

- "The Relevance of Functional Economic Area Concept for Spatial Planning in India", in T.K. Kaul and J.K. Sengupta (Editors) *Economic Models, Estimation and Socioeconomic Systems*, contributions to economic analysis series, 186, Amsterdam, North Holland, and Elsevier, 1991.

## 1990-1981

- "On Estimating Elasticity of Factor substitution by Nonlinear Least Squares", (with J.H. Gapsinski), in J.K. Sengupta and G.K. Kadekodi (editors) *Econometrics of Planning and Efficiency*, Kluwer Academic Publishers, 1988.

- "Scientific Work of Gerhard Tintner" (with J.K. Sengupta and G.K. Kadekodi), in *Econometrics of Planning and Efficiency*. Kluwer Academic Publishers, 1988.

- "Economics of Aquaculture", in P.R. Brahmananda, B.K. Narayan and A. Kalappa

(Editors), Dimensions of Rural Development in India. Himalaya Publishing House, 1987.

### **1980-1971**

- "Some Considerations on a Class of Macroeconomic Production Functions", (with First J. de Jong) Reprinted in *Le capital dans la fonction de production*, Proceedings of an international conference held at Institute de recherche en economie de la production, Paris, 1978.
- "Functional Relations in Economics and Econometric Estimation", (with Ephraim Asher), in E. Stern and N.A. Chigier (Editors), *Collective Phenomena and the Application of Physics to other Fields of Sciences*, Brain Research Publications, Inc., Moscow, 1976.
- "Resource Allocation Processes in Linear Static Models", and "Resource Allocation Processes in Nonlinear and Dynamic Models", Chapters 4 and 5, (pp. 80-141) in K.A. Fox (editor), *Economic Analysis for Educational Planning*, The Johns Hopkins University Press, 1972.

### **1970-1965**

- "Comment" (on "Applications of the Theory of Stochastic Processes to Economic Development" by Gerhard Tintner, J.K. Sengupta, and E.J. Thomas) in I. Adelman and E. Thorbecke (editors), *The Theory and Design of Economic Development*, The Johns Hopkins University Press, 1965.
- "On Delineating Functional Economic Areas", (with Karl A. Fox), Chapter 1, pp. 1-55, in W.R. Maki and B.J.L. Berry (Editors), *Research and Education for Regional and Area Development*, Iowa State University Press, 1965.