

## BIBLIOGRAPHY

- Abraham, K.G., J.S. Greenlees and B.R. Moulton. 1998. "Working to Improve the Consumer Price Index", in *Journal of Economic Perspectives*, Vol. 12, No. 1, pp. 27–36.
- Aczél, J. 1987. *A Short Course on Functional Equations* (Dordrecht: Reidel Publishing Co.).
- Advisory Commission to Study the Consumer Price Index. 1995. *Toward a More Accurate Measure of the Cost of Living*, Interim Report to the Senate Finance Committee, Sep. 15 (Washington, D.C.).
- Aizcorbe, A.M., and P.C. Jackman. 1993. "The commodity substitution effect in CPI data, 1982–91", in *Monthly Labor Review*, Vol. 116, No. 12, pp. 25–33.
- Aizcorbe, A., C. Corrado and M. Doms. 2001. *Constructing Price and Quantity Indexes for High Technology Goods*, Industrial Output Section, Division of Research and Statistics (Washington, D.C.: Board of Governors of the Federal Reserve System).
- Alterman, W.F., W.E. Diewert and R.C. Feenstra. 1999. *International Trade Price Indexes and Seasonal Commodities* (Washington, D.C.: Bureau of Labor Statistics).
- Anderson, R.G., B.E. Jones and T. Nesmith. 1997. "Building New Monetary Services Indexes: Concepts, Data and Methods", in *Federal Reserve Bank of St. Louis Review*, Vol. 79, No. 1, pp. 53–83.
- Ardilly, P. and F. Guglielmetti. 1993. "La précision de l'indice des prix: mesure et optimisation", in *Economie et Statistique*, No. 267, juillet.
- Arguea, N.M., C. Haseo and G.A. Taylor. 1994. "Estimating Consumer Preferences using Market Data: An Application to U.S. Automobile Demand", in *Journal of Applied Econometrics*, Vol. 9, pp. 1–18.
- Armknacht, P.A. 1996. *Improving the Efficiency of the U.S. CPI*, Working Paper No. 96/103 (Washington, D.C.: IMF).
- and D. Weyback. 1989. "Adjustments for Quality Change in the U.S. Consumer Price Index", in *Journal of Official Statistics*, Vol. 5, No. 2, pp. 107–123.
- and F. Maitland-Smith. 1999. *Price Imputation and Other Techniques for Dealing with Missing Observations, Seasonality and Quality Change in Price Indices*, Working Paper No. 99/78 (Washington, D.C.: IMF), June. Available at: <http://www.imf.org/external/pubs/ft/wp/1999/wp9978.pdf>
- , W.F. Lane and K.J. Stewart. 1997. "New Products and the U.S. Consumer Price Index", in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press, 2003), pp. 375–391.
- Arrow, K.J., H.B. Chenery, B.S. Minhas and R.M. Solow. 1961. "Capital–Labor Substitution and Economic Efficiency", in *Review of Economics and Statistics*, Vol. 63, pp. 225–250.
- Astin, J. 1999. "The European Union Harmonized Indices of Consumer Prices. HICP", in R. Gudnason and T. Gylfaddottir (eds.): *Proceedings of the Ottawa Group Fifth Meeting*, Reykjavik, Iceland, 25–27 Aug.; also published in *Statistical Journal of the United Nations ECE*, Vol. 16, pp. 123–135. Available at: <http://www.statcan.ca/secure/english/ottawa/group/>
- . 2001. *New Uses of PPPs within the European Union*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- Aten, B., R. Summers and A. Heston. 2001. *An Explanation of Stability in Country Price Structures: Implications for Spatial–temporal Comparisons*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- Australian Bureau of Statistics. 1997. *An Analytical Framework for Price Indexes in Australia*, Information Paper, Catalogue No. 6421.0. Available at: <http://www.abs.gov.au>
- . 2000. *Price Index and The New Tax System*, Information Paper, Catalogue No. 6425.0. Available at: <http://www.abs.gov.au>
- . 2003. *Australian Consumer Price Index: Concepts, Sources and Methods*, Catalogue No. 6461.0. Available at: <http://www.abs.gov.au/>
- Bailey, M.J., Muth, R.F. and Nourse, H.O. 1963. "A Regression Method for Real Estate Price Construction", in *Journal of the American Statistical Association*, Vol. 58, pp. 933–942.
- Baker, D. 1998. "Does the CPI Overstate Inflation? An Analysis of the Boskin Commission Report", in D. Baker (ed.): *Getting Prices Right* (Washington, D.C.: Economic Policy Institute), pp. 79–155.
- Baldwin, A. 1990. "Seasonal Baskets in Consumer Price Indexes", in *Journal of Official Statistics*, Vol. 6, No. 3, pp. 251–273.
- Balk, B.M. 1980a. "Seasonal Products in Agriculture and Horticulture and Methods for Computing Price Indices", in *Statistical Studies No. 24* (The Hague: Netherlands Central Bureau of Statistics).
- . 1980b. "Seasonal Commodities and the Construction of Annual and Monthly Price Indexes", in *Statistische Hefte*, Vol. 21, pp. 110–116.
- . 1980c. "A Method for Constructing Price Indices for Seasonal Commodities", in *The Journal of the Royal Statistical Society Series A*, Vol. 143, pp. 68–75.
- . 1981. "A Simple Method for Constructing Price Indices for Seasonal Commodities", in *Statistische Hefte*, Vol. 22, pp. 72–78.
- . 1983. "Does There Exist a Relation between Inflation and Relative Price Change Variability? The Effect of the Aggregation Level", in *Economic Letters*, Vol. 13, pp. 173–180.
- . 1985. "A Simple Characterization of Fisher's Price Index", in *Statistische Hefte*, Vol. 26, pp. 59–63.
- . 1989a. "Changing Consumer Preferences and the Cost of Living Index: Theory and Nonparametric Expressions", in *Zeitschrift für Nationalökonomie*, Vol. 50, No. 2, pp. 157–169.

- . 1989b. "On Calculating the Precision of Consumer Price Indices", in *Contributed Papers 47th Session of the ISI* (Paris).
- . 1990. "On Calculating Cost-of-Living Index Numbers for Arbitrary Income Levels", in *Econometrica*, Vol. 58, No. 1, pp. 75–92.
- . 1994. *On the First Step in the Calculation of a Consumer Price Index*, Paper presented at First Meeting of the International Working Group on Price Indices, Ottawa, Oct. 31–Nov. 4. Available at: <http://www.ottawagroup.org>
- . 1995. "Axiomatic Price Index Theory: A Survey", in *International Statistical Review*, Vol. 63, pp. 69–93.
- . 1996a. "A Comparison of Ten Methods for Multilateral International Price and Volume Comparisons", in *Journal of Official Statistics*, Vol. 12, pp. 199–222.
- . 1996b. "Consistency in Aggregation and Stuvell Indices", in *The Review of Income and Wealth*, Vol. 42, pp. 353–363.
- . 1998a. *Industrial Price, Quantity and Productivity Indices* (Boston, MA: Kluwer Academic Publishers).
- . 1998b. *On the Use of Unit Value Indices as Consumer Price Subindices*, Paper presented at the Fourth Meeting of the International Working Group on Price Indices, Washington, D.C., Apr. 22–24. Available at: <http://www.ottawagroup.org>
- . 2000a. *Divisia Price and Quantity Indexes 75 Years After*, Draft Paper, Department of Statistical Methods (Voorburg: Statistics Netherlands).
- . 2000b. *On Curing the CPI's Substitution and New Goods Bias*, Research Paper 0005, Department of Statistical Methods (Voorburg: Statistics Netherlands).
- . 2001. *Aggregation Methods in International Comparisons: What have we Learned?*, Report Series Research in Management ERS-2001-41-MKT, Erasmus Research Institute of Management (Rotterdam: Erasmus University).
- . 2002. *Price Indexes for Elementary Aggregates: The Sampling Approach*, Research Report, Methods and Informatics Department (Voorburg: Statistics Netherlands).
- and W.E. Diewert. 2001. "A Characterization of the Törnqvist Price Index", in *Economics Letters*, Vol. 73, pp. 279–281.
- and H.M.P. Kersten. 1986. "On the Precision of Consumer Price Indices Caused by the Sampling Variability of Budget Surveys", in *Journal of Economic and Social Measurement*, Vol. 14, pp. 19–35.
- Bartik, T.J. 1988. "Measuring the Benefits of Land Improvements in Hedonic Models", in *Land Economics*, Vol. 64, No. 2, pp. 172–183.
- Bascher, J. and T. Lacroix. 1999. *Dishwashers and PCs in the French CPI: Hedonic Modeling, from Design to Practice*, Paper presented at the Fifth Meeting of the International Working Group on Price Indices, Reykjavik, Aug. 25–27. Available at: <http://www.ottawagroup.org>
- Baxter, M. (ed.). 1998. *The Retail Prices Index. Technical Manual* (London: Office for National Statistics, UK).
- Bean, L.H. and O.C. Stine. 1924. "Four Types of Index Numbers of Farm Prices", in *Journal of the American Statistical Association*, Vol. 19, pp. 30–35.
- Becker, G.S. 1965. "A Theory of the Allocation of Time", in *Economic Journal*, Vol. 75, pp. 493–517.
- Beidelman, C. 1973. *Valuation of Used Capital Assets* (Sarasota, FL: American Accounting Association).
- . 1976. "Economic Depreciation in a Capital Goods Industry", in *National Tax Journal*, Vol. 29, pp. 379–390.
- Berndt, E.R. 1991. *The Practice of Econometrics: Classic and Contemporary* (Reading, MA: Addison-Wesley).
- , D. Ling and M.K. Kyle. 2003. "The Long Shadow of Patent Expiration: Generic Entry and Rx to OTC Switches", in M. Shapiro and R.C. Feenstra (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 229–273.
- , L.T. Bui, D.H. Lucking-Reiley and G.L. Urban. 1997. "The Roles of Marketing, Product Quality and Price Competition in the Growth and Composition of the U.S. Anti-Ulcer Drug Industry", in T. Bresnahan and R.J. Gordon: *The Economics of New Goods*, NBER Studies in Income and Wealth (Chicago and London: University of Chicago Press), pp. 277–232.
- , Z. Griliches and N.J. Rappaport. 1995. "Econometric Estimates of Price Indexes for Personal Computers in the 1990s", in *Journal of Econometrics*, Vol. 68, pp. 243–68.
- Berry S., J. Levinsohn and A. Pakes. 1995. "Automobile Prices in Market Equilibrium", in *Econometrica*, Vol. 63, No. 4, pp. 841–890; also published as NBER Working Paper No. W4264, July 1996, available at: <http://www.nber.org>.
- Beuerlein, I. 2001. *The German consumer price index for telecommunication services: a user profile approach for mobile technology and Internet access*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org/>
- Bode, B. and van J. Dalén. 2001. *Quality-Corrected Price Indexes of New Passenger Cars in the Netherlands, 1990–1999*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org>
- Böhm-Bawerk, E.V. 1891. *The Positive Theory of Capital*, translated from the original German edition of 1888 by W. Smart (New York: G.E. Stechert).
- Boon, M. 1998. "Sampling designs in compiling consumer price indices: current practices at EU statistical institutes", in *Research in Official Statistics*, Vol. 1, No. 2, pp. 39–52.
- Bortkiewicz, L.V. 1923. "Zweck und Struktur einer Preisindexzahl", in *Nordisk Statistisk Tidskrift* 2, pp. 369–408.
- Boskin, M.J. (Chair), E.R. Dullberger, R.J. Gordon, Z. Griliches and D.W. Jorgenson. 1996. *Final Report of the Commission to Study the Consumer Price Index*, U.S. Senate, Committee on Finance (Washington, D.C.: U.S. Government Printing Office).
- . 1998. "Consumer Prices in the Consumer Price Index and the Cost of Living", in *Journal of Economic Perspectives*, Vol. 12, No. 1, pp. 3–26.
- Bowley, A.L. 1899. "Wages, Nominal and Real", in R.H.I. Palgrave. (ed.): *Dictionary of Political Economy*, Volume 3 (London: Macmillan), pp. 640–651.
- . 1901. *Elements of Statistics* (Westminster: Orchard House).
- . 1919. "The Measurement of Changes in the Cost of Living", in *Journal of the Royal Statistical Society*, Vol. 82, pp. 343–361.
- Bradley, R., B. Cook, S.E. Leaver and B. R. Moulton. 1997. *An Overview of Research on Potential Uses of Scanner Data in the U.S. CPI*, Paper presented at the Third Meeting of the International Working Group on Price Indices, Voorburg, Apr. 16–18. Available at: <http://www.ottawagroup.org>

- Braithwait, S.D. 1980. "The Substitution Bias of the Laspeyres Price Index: An Analysis Using Estimated Cost-of-Living Indexes", in *American Economic Review*, Vol. 70, No. 1, pp. 64–77.
- Bresnahan, T.F. 1997. "Comment", in T.F. Bresnahan and R.J. Gordon (eds.): *The Economics of New Goods*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 237–247.
- Canning, J.B. 1929. *The Economics of Accountancy* (New York: The Ronald Press Co.).
- Carli, G.-R. 1804. "Del valore e della proporzione dei metalli monetati", in *Scrittori classici italiani di economia politica*, Vol. 13 (Milano: G.G. Destefanis), pp. 297–366; originally published in 1764.
- Carruthers, A.G., D.J. Sellwood and P.W. Ward. 1980. "Recent Developments in the Retail Prices Index", in *The Statistician*, Vol. 29, pp. 1–32.
- Cassel, E. and R. Mendelsohn. 1985. "On the Choice of Functional Forms for Hedonic Price Equations: Comment", in *Journal of Urban Economics*, Vol. 18, Sep., pp. 135–142.
- Castles, I. 1997. *The OECD–EUROSTAT PPP Program: Review of Practice and Procedures* (Paris: OECD).
- Caves, D.W., L.R. Christensen and W.E. Diewert. 1982a. "The Economic Theory of Index Numbers and the Measurement of Input, Output and Productivity", in *Econometrica*, Vol. 50, 1393–1414.
- , L.R. Christensen and W.E. Diewert. 1982b. "Multilateral Comparisons of Output, Input and Productivity using Superlative Index Numbers", in *Economic Journal*, Vol. 92, pp. 73–86.
- Cecchetti, S.G. 1997. "Measuring Inflation for Central Bankers", in *Federal Reserve Bank of St. Louis Review*, Vol. 79, pp. 143–155.
- Christensen, L.R. and D.W. Jorgenson. 1969. "The Measurement of U.S. Real Capital Input, 1929–1967", in *Review of Income and Wealth*, Vol. 15, No. 4, pp. 293–320.
- , — and L.J. Lau. 1971. "Conjugate Duality and the Transcendental Logarithmic Production Function", in *Econometrica*, Vol. 39, pp. 255–256.
- Church, A.H. 1901. "The Proper Distribution of Establishment Charges, Part III", in *The Engineering Magazine*, Vol. 21, pp. 904–912.
- Clements, K.W. and H.Y. Izan. 1981. "A Note on Estimating Divisia Index Numbers", in *International Economic Review*, Vol. 22, pp. 745–747.
- and H.Y. Izan. 1987. "The Measurement of Inflation: A Stochastic Approach", in *Journal of Business and Economic Statistics*, Vol. 5, pp. 339–350.
- Cobb, C. and P.H. Douglas. 1928. "A Theory of Production", in *American Economic Review*, Vol. 18, pp. 39–165.
- Cochran, W.G. 1977. *Sampling Techniques*, 3rd edition (New York: Wiley).
- Cockburn, I.M. and A.H. Anis. 1998. *Hedonic Analysis and Arthritic Drugs*, Working Paper 6574 (Cambridge, MA: National Bureau of Economic Research).
- Coggeshall, F. 1887. "The Arithmetic, Geometric and Harmonic Means", in *Quarterly Journal of Economics*, Vol. 1, pp. 83–86.
- Combris, P., S. Lecocqs and M. Visser. 1997. "Estimation of a Hedonic Price Equation for Bordeaux Wine: Does Quality Matter?", in *Economic Journal*, Vol. 107, No. 441, pp. 390–402.
- Commission of the European Communities (Eurostat), IMF, OECD, United Nations and World Bank. 1993. *System of National Accounts 1993* (Brussels/Luxembourg, New York, Paris, Washington, D.C.).
- Congressional Budget Office (CBO). 1994. *Is the Growth of the CPI a Biased Measure of Changes in the Cost of Living?*, CBO Paper, Oct. (Washington, D.C.).
- Crawford, A. 1998. "Measurement Biases in the Canadian CPI: An Update", in *Bank of Canada Review*, Spring, pp. 39–56.
- Cropper, M.L., L.L. Deck and K.E. McConnell. 1988. "On the Choice of Functional Form for Hedonic Price Functions", in *Review of Economics and Statistics*, Vol. 70, No. 4, pp. 668–675.
- Crump, N. 1924. "The Interrelation and Distribution of Prices and their Incidence Upon Price Stabilization", in *Journal of the Royal Statistical Society*, Vol. 87, pp. 167–206.
- Cunningham, A.W.F. 1996. *Measurement Bias in Price Indices: An Application to the UK's RPI*, Bank of England Working Paper 47 (London: Bank of England).
- Curry, B., P. Morgan and M. Silver. 2001. "Hedonic Regressions: Misspecification and Neural Networks", in *Applied Economics*, Vol. 33, pp. 659–671.
- Czinkota, M.R. and I. Ronkainen. 1997. "International Business and Trade in the Next Decade: Report from a Delphi Study", in *Journal of International Business Studies*, Vol. 28, No. 4, pp. 827–844.
- Dalén, J. 1992. "Computing Elementary Aggregates in the Swedish Consumer Price Index", in *Journal of Official Statistics*, Vol. 8, pp. 129–147.
- . 1994. *Sensitivity Analyses for Harmonizing European Consumer Price Indices*, Paper presented at the First Meeting of the International Working Group on Price Indices, Ottawa, Oct. 31–Nov. 4. Available at: <http://www.ottawagroup.org>
- . 1995. "Quantifying errors in the Swedish consumer price index", in *Journal of Official Statistics*, Vol. 13, No. 3, pp. 347–356.
- . 1997. *Experiments with Swedish Scanner Data*, Paper presented at the Third Meeting of the International Working Group on Price Indices, Voorburg, Apr. 16–18. Available at: <http://www.ottawagroup.org>.
- . 1998a. *On the Statistical Objective of a Laspeyres Price Index*, Paper presented at the Fourth Meeting of the International Working Group on Price Indices, Washington, D.C., Apr. 22–24. Available at: <http://www.ottawagroup.org>.
- . 1998b. "Studies on the Comparability of Consumer Price Indices", in *International Statistical Review*, Vol. 66, No. 1, pp. 83–113.
- . 1999a. "On Reliability, Uncertainty and Bias in Consumer Price Indexes", in M. Silver and D. Fenwick (eds.): *Proceedings of the Measurement of Inflation Conference* (Cardiff: Cardiff University), pp. 184–190.
- . 1999b. *A note on the Variance of the Sample Geometric Mean*, Research Report 1991: 1, Department of Statistics (Stockholm: Stockholm University).
- and O. Muelteel. 1998. *Variance estimation in the Luxembourg CPI*, Cellule "Statistique et décision" (Luxembourg: Centre de Recherche Public–Centre Universitaire).
- and E. Ohlsson. 1995. "Variance Estimation in the Swedish Consumer Price Index", in *Journal of Business and Economic Statistics*, Vol. 13, No. 3, pp. 347–356.

- Dalton, K.V., J.S. Greenlees, and K.J. Stewart. 1998. "Incorporating a Geometric Mean Formula into the CPI", in *Monthly Labor Review*, Vol. 121, No. 10, pp. 3–7.
- Davies, G.R. 1924. "The Problem of a Standard Index Number Formula", in *Journal of the American Statistical Association*, Vol. 19, pp. 180–188.
- . 1932. "Index Numbers in Mathematical Economics", in *Journal of the American Statistical Association*, Vol. 27, pp. 58–64.
- de Haan, J. 2001. *Generalised Fisher Price Indexes and the Use of Scanner Data in the CPI*, Unpublished Paper (Voorburg: Statistics Netherlands).
- . 2003. *Time Dummy Approaches to Hedonic Price Measurement*, Paper presented at the Seventh Meeting of the International Working Group on Price Indices, Paris, May 27–29. Available at: <http://www.insee.fr/>
- and E. Opperdoes. 1997. *Estimation of the Coffee Price Index Using Scanner Data: Simulation of Official Practices*, Paper presented at the Third Meeting of the International Working Group on Price Indices, Voorburg, Apr. 16–18. Available at: <http://www.ottawagroup.org>
- , E. Opperdoes, and C. Schut. 1997. *Item Sampling in the Consumer Price Index: A Case Study using Scanner Data*, Research Report (Voorburg: Statistics Netherlands).
- , E. Opperdoes, and C. Schut. 1999. "Item Selection in the Consumer Price Index: Cut-off Versus Probability Sampling", in *Survey Methodology*, Vol. 25, No. 1, pp. 31–41.
- Deaton, A. 1998. "Getting prices right: What should be done?", in *Journal of Economic Perspectives*, Vol. 12, No. 1, pp. 37–46.
- Denny, M. 1974. "The Relationship Between Functional Forms for the Production System", in *Canadian Journal of Economics*, Vol. 7, pp. 21–31.
- Diewert, W.E. 1974a. "Applications of Duality Theory", in M.D. Intriligator and D.A. Kendrick (eds.): *Frontiers of Quantitative Economics*, Vol. II (Amsterdam: North-Holland) pp. 106–171.
- . 1974b. "Intertemporal Consumer Theory and the Demand for Durables", in *Econometrica*, Vol. 42, pp. 497–516.
- . 1976. "Exact and Superlative Index Numbers", in *Journal of Econometrics*, Vol. 4, pp. 114–145.
- . 1978. "Superlative Index Numbers and Consistency in Aggregation", in *Econometrica*, Vol. 46, pp. 883–900.
- . 1980. "Aggregation Problems in the Measurement of Capital", in D. Usher (ed.): *The Measurement of Capital*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 433–528.
- . 1983a. "The Theory of the Cost of Living Index and the Measurement of Welfare Change", in W.E. Diewert and C. Montmarquette (eds.): *Price Level Measurement* (Ottawa: Statistics Canada), pp. 163–233; reprinted in W.E. Diewert (ed.): *Price Level Measurement* (Amsterdam: North-Holland, 1990), pp. 79–147.
- . 1983b. "The Theory of the Output Price Index and the Measurement of Real Output Change", in W.E. Diewert and C. Montmarquette (eds.): *Price Level Measurement* (Ottawa: Statistics Canada), pp. 1049–1113.
- . 1983c. "The Treatment of Seasonality in a Cost of Living Index", in W.E. Diewert and C. Montmarquette (eds.): *Price Level Measurement* (Ottawa: Statistics Canada), pp. 1019–1045.
- . 1986. *Microeconomic Approaches to the Theory of International Comparisons*, Technical Working Paper No. 53 (Cambridge, MA: National Bureau of Economic Research).
- . 1992a. "Fisher Ideal Output, Input and Productivity Indexes Revisited", in *Journal of Productivity Analysis*, Vol. 3, pp. 211–248.
- . 1992b. "Exact and Superlative Welfare Change Indicators", in *Economic Inquiry*, Vol. 30, pp. 565–582.
- . 1993a. "The Early History of Price Index Research", in W.E. Diewert and A.O. Nakamura (eds.): *Essays in Index Number Theory*, Vol. 1, Contributions to Economic Analysis 217 (Amsterdam: North-Holland), pp. 33–65.
- . 1993b. "Duality Approaches to Microeconomic Theory", in W.E. Diewert and A.O. Nakamura (eds.): *Essays in Index Number Theory*, Vol. 1, Contributions to Economic Analysis 217 (Amsterdam: North-Holland), pp. 105–175.
- . 1993c. "Symmetric Means and Choice under Uncertainty", in W.E. Diewert and A.O. Nakamura (eds.): *Essays in Index Number Theory*, Vol. 1, Contributions to Economic Analysis 217 (Amsterdam: North-Holland), pp. 355–433.
- . 1993d. "Overview of Volume 1", in W.E. Diewert and A.O. Nakamura (eds.): *Essays in Index Number Theory*, Vol. 1, Contributions to Economic Analysis 217 (Amsterdam: North-Holland) pp. 1–31.
- . 1995a. *Axiomatic and Economic Approaches to Elementary Price Indexes*, Discussion Paper No. 95–01, Department of Economics (Vancouver: University of British Columbia). Available at: <http://www.econ.ubc.ca>
- . 1995b. *On the Stochastic Approach to Index Numbers*, Discussion Paper No. 95–31, Department of Economics (Vancouver: University of British Columbia). Available at: <http://www.econ.ubc.ca>
- . 1996a. "Price and Volume Measures in the National Accounts", in J. Kendrick (ed.): *The New System of National Economic Accounts* (Norwell, MA: Kluwer Academic Publishers), pp. 237–285.
- . 1996b. *Seasonal Commodities, High Inflation and Index Number Theory*, Discussion Paper 96–06, Department of Economics (Vancouver: University of British Columbia).
- . 1996c. *Sources of Bias in Consumer Price Indexes*, Discussion Paper, School of Economics (Sydney: University of New South Wales).
- . 1997. "Commentary on Mathew D. Shapiro and David W. Wilcox: Alternative Strategies for Aggregating Price in the CPI", in *The Federal Reserve Bank of St. Louis Review*, Vol. 79, No. 3, pp. 127–137.
- . 1998a. "Index Number Issues in the Consumer Price Index", in *The Journal of Economic Perspectives*, Vol. 12, No. 1, pp. 47–58.
- . 1998b. "High Inflation, Seasonal Commodities and Annual Index Numbers", in *Macroeconomic Dynamics*, Vol. 2, pp. 456–471.
- . 1999a. "Index Number Approaches to Seasonal Adjustment", in *Macroeconomic Dynamics*, Vol. 3, pp. 48–68.
- . 1999b. "Axiomatic and Economic Approaches to Multilateral Comparisons", in A. Heston and R.E. Lipsey (eds.): *International and Interarea Comparisons of Income, Output and Prices* (Chicago, IL: University of Chicago Press), pp. 13–87.
- . 2000. *Notes on Producing an Annual Superlative Index Using Monthly Price Data*, Discussion Paper No. 00-08, Department of Economics (Vancouver: University of British Columbia). Available at: <http://www.econ.ubc.ca>

- . 2001. “The Consumer Price Index and Index Number Purpose”, in *Journal of Economic and Social Measurement*, Vol. 27, pp. 167–248.
- . 2002a. “The Quadratic Approximation Lemma and Decompositions of Superlative Indexes”, in *Journal of Economic and Social Measurement*, Vol. 28, pp. 63–88.
- . 2002b. *Similarity and Dissimilarity Indexes: An Axiomatic Approach*, Discussion Paper No. 02-10, Department of Economics (Vancouver: University of British Columbia). Available at: <http://www.econ.ubc.ca>
- . 2002c. “Harmonized Indexes of Consumer Prices: Their Conceptual Foundations”, in *Swiss Journal of Economics and Statistics*, Vol. 138, No. 4, pp. 547–637.
- . 2002d. *Notes on Hedonic Producer Price Indexes*, Unpublished Paper, Department of Economics (Vancouver: University of British Columbia), Jan.
- . 2002e. *Hedonic Regressions: A Review of Some Unresolved Issues*, Unpublished Paper, Department of Economics (Vancouver: University of British Columbia).
- . 2003a. “Hedonic Regressions: A Consumer Theory Approach”, in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: The University of Chicago Press), pp. 317–348.
- . 2003b. *Measuring Capital*, NBER Working Paper W9526 (Cambridge, MA: National Bureau of Economic Research).
- and D.A. Lawrence. 2000. “Progress in Measuring the Price and Quantity of Capital”, in L.J. Lau (ed.): *Econometrics Volume 2: Econometrics and the cost of Capital: Essays in Honor of Dale W. Jorgenson* (Cambridge, MA: The MIT Press), pp. 273–326.
- Dikhanov, Y. 1997. *The Sensitivity of PPP-Based Income Estimates to Choice of Aggregation Procedures*, Unpublished Paper, International Economics Department (Washington, D.C.: World Bank), Jan.
- Dippo, C.S. and C.A. Jacobs. 1983. “Area Sampling Redesign for the Consumer Price Index”, in *Proceedings of the Survey Research Methods Section, American Statistical Association*, pp. 118–123.
- Divisia, F. 1926. *L'indice monétaire et la théorie de la monnaie* (Paris: Société anonyme du Recueil Sirey).
- Drechsler, L. 1973. “Weighting of Index Numbers in Multilateral International Comparisons”, in *Review of Income and Wealth*, Vol. 19, pp. 17–34.
- Drobisch, M. W. 1871a. “Ueber die Berechnung der Veränderungen der Waarenpreise und des Geldwerths”, in *Jahrbücher für Nationalökonomie und Statistik*, Vol. 16, pp. 143–156.
- . 1871b. “Ueber einige Einwürfe gegen die in diesen Jahrbüchern veröffentlichte neue Methode, die Veränderungen der Waarenpreise und des Geldwerths zu berechnen”, in *Jahrbücher für Nationalökonomie und Statistik*, Vol. 16, pp. 416–427.
- Ducharme, L.M. 1997. “The Canadian Consumer Price Index and the Bias Issue: Present and Future Outlooks” in L.M. Ducharme (ed.): *Bias in the CPI: Experiences from Five OECD Countries*, Prices Division Analytical Series, No. 10 (Ottawa: Statistics Canada), pp. 13–24.
- Duggan, J. E. and R. Gillingham. 1999. “The Effect of Errors in the CPI on Social Security Finances”, in *Journal of Business and Economic Statistics*, Vol. 17, No. 2, pp. 161–169.
- Dulberger, E.R. 1989. “The Application of an Hedonic Model to a Quality-Adjusted Price Index For Computer Processors”, in D. Jorgenson and R. Landau (eds.): *Technology and Capital Formation* (Cambridge, MA: MIT Press).
- . 1993. “Sources of Price Decline in Computer Processors: Selected Electronic Components”, in M. Foss, M.E. Manser and A.H. Young (eds.): *Price Measurement and their Uses*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 103–124.
- Dutot, C. 1738. *Réflexions politiques sur les finances et le commerce*, Vol. 1 (La Haye: Les frères Vaillant et N. Prevost).
- Dwyer, L., P. Forsyth and D.S. Prasada Rao. 2001. *PPPs and the Price Competitiveness of International Tourism Destinations*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- Edgeworth, F.Y. 1888. “Some New Methods of Measuring Variation in General Prices”, in *Journal of the Royal Statistical Society*, Vol. 51, pp. 346–368.
- . 1923. “The Doctrine of Index Numbers According to Mr. Correa Walsh”, in *The Economic Journal*, Vol. 11, pp. 343–351.
- . 1925. *Papers Relating to Political Economy*, Vol. 1 (New York: Burt Franklin).
- Edwards, R. 1997. “Measuring Inflation in Australia”, in L.M. Ducharme (ed.): *Bias in the CPI: Experiences from Five OECD Countries*, Prices Division Analytical Series, No. 10 (Ottawa: Statistics Canada), pp. 5–12.
- Ehemann, C., A.J. Katz and B.R. Moulton. 2002. “The Chain-Additivity Issue and the U.S. National Accounts”, in *Journal of Economic and Social Measurement*, Vol. 28, pp. 37–49.
- Eichhorn, W. 1978. *Functional Equations in Economics* (Reading, MA: Addison-Wesley Publishing Company).
- and J. Voeller. 1976. *Theory of the Price Index*, Lecture Notes in Economics and Mathematical Systems, Vol. 140 (Berlin: Springer-Verlag).
- Eldridge, L.P. 1999. “How price indexes affect BLS productivity measures”, in *Monthly Labor Review*, Vol. 122, No. 2, pp. 35–46.
- Elteto, O. and P. Kovcs. 1964. “On an Index Number Computation Problem in International Comparison”, in *Statistikai Szemle*, Vol. 42, pp. 507–518 (in Czech).
- Epple, D. 1987. “Hedonic Prices and Implicit Markets: Estimating Demand and Supply Functions for Differentiated Products”, in *Journal of Political Economy*, Vol. 95, pp. 59–80.
- European Foundation for Quality Management Excellence Model (Brussels: European Foundation for Quality Management). Available at: <http://www.efqm.org>
- Eurostat. 1993. *Classification of Products by Activity in the European Economic Community (CPA)* (Luxembourg).
- . 2001a. *Compendium of HICP Reference Documents* (Luxembourg: Unit B3, Harmonisation of Price Indices), Mar.
- . 2001b. *Handbook on Price and Volume Measures in National Accounts* (Luxembourg: European Commission).
- Feenstra, R.C. 1994. “New Product Varieties and the Measurement of International Prices”, in *American Economic Review*, Vol. 34, pp. 157–177.
- . 1995. “Exact Hedonic Price Indices”, in *Review of Economics and Statistics*, Vol. 77, pp. 634–654.

- and C.R. Shiells. 1997. “Bias in U.S. Import Prices and Demand”, in T.F. Bresnahan and R.J. Gordon (eds.): *The Economics of New Goods*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago), pp. 249–276.
- and M.D. Shapiro. 2003. “High Frequency Substitution and the Measurement of Price Indexes”, in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: The University of Chicago Press), pp. 123–146.
- and W.E. Diewert. 2001. *Imputation and Price Indexes: Theory and Evidence from the International Price Program*, Working Paper No. 335 (Washington, D.C.: Bureau of Labor Statistics). Available at: <http://www.bls.gov>
- Fenwick, D. 1997. “The Boskin Report from a United Kingdom Perspective”, in L.M. Ducharme (ed.): *Bias in the CPI: Experiences from Five OECD Countries*, Prices Division Analytical Series, No. 10 (Ottawa: Statistics Canada), pp. 45–52.
- , A. Ball, M. Silver and P.H. Morgan. 2003. “Price Collection and Quality Assurance of Item Sampling in the Retail Price Index: How Can Scanner Data Help?”, in M. Shapiro and R. Feenstra (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press, 2003), pp. 67–87.
- Ferger, W.F. 1931. “The Nature and Use of the Harmonic Mean”, in *Journal of the American Statistical Association*, Vol. 26, pp. 36–40.
- . 1936. “Distinctive Concepts of Price and Purchasing Power Index Numbers”, in *Journal of the American Statistical Association*, Vol. 31, pp. 258–272.
- Ferrari, G. and M. Riani. 1998. “On Purchasing Power Parities Calculation at the Basic Heading Level”, in *Statistica*, Vol. LVIII, pp. 91–108.
- , G. Gozzi and M. Riani. 1996. “Comparing GEKS and EPD Approaches for Calculating PPPs at the Basic Heading level”, in Eurostat: *Improving the Quality of Price Indices: CPI and PPP* (Luxembourg).
- Fisher, F.M. and K. Shell. 1972. “The Pure Theory of the National Output Deflator”, in *The Economic Theory of Price Indexes* (New York: Academic Press), pp. 49–113.
- Fisher, I. 1897. “The Role of Capital in Economic Theory”, in *Economic Journal*, Vol. 7, pp. 511–537.
- . 1911. *The Purchasing Power of Money* (London: Macmillan).
- . 1921. “The Best Form of Index Number”, in *Journal of the American Statistical Association*, Vol. 17, pp. 533–537.
- . 1922. *The Making of Index Numbers* (Boston, MA: Houghton-Mifflin).
- Fisher, W.C. 1913. “The Tabular Standard in Massachusetts History”, in *Quarterly Journal of Economics*, Vol. 27, pp. 417–451.
- Fixler, D. and K.D. Zieschang. 1992. “Incorporating Ancillary Measures of Processes and Quality Change into a Superlative Productivity Index”, in *Journal of Productivity Analysis*, Vol. 2, pp. 245–267.
- and K.D. Zieschang. 2001. *Price Indices for Financial Services*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org>
- Flux, A.W. 1921. “The Measurement of Price Change”, in *Journal of the Royal Statistical Society*, Vol. 84, pp. 167–199.
- Forsyth, F.G., and R.F. Fowler. 1981. “The Theory and Practice of Chain Price Index Numbers”, in *Journal of the Royal Statistical Society A*, Vol. 144, No. 2, pp. 224–247.
- Frisch, R. 1930. “Necessary and Sufficient Conditions Regarding the Form of an Index Number Which Shall Meet Certain of Fisher’s Tests”, in *Journal of the American Statistical Association*, Vol. 25, pp. 397–406.
- . 1936. “Annual Survey of General Economic Theory: The Problem of Index Numbers”, in *Econometrica*, Vol. 4, pp. 1–38.
- Frost, S. 2001. *The Construction of Price Indices for Deposit and Loan Facilities*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: [www.ottawagroup.org/](http://www.ottawagroup.org/)
- Funke, H. and J. Voeller. 1978. “A Note on the Characterization of Fisher’s Ideal Index”, in W. Eichhorn, R. Henn, O. Opitz and R.W. Shephard (eds.): *Theory and Applications of Economic Indices* (Würzburg: Physica-Verlag), pp. 177–181.
- , G. Hacker and J. Voeller. 1979. “Fisher’s Circular Test Reconsidered”, in *Schweizerische Zeitschrift für Volkswirtschaft und Statistik*, Vol. 115, pp. 677–687.
- Garcke, E. and J.M. Fells. 1893. *Factory Accounts: Their Principles and Practice*, Fourth Edition (First Edition 1887) (London: Crosby, Lockwood and Son).
- Geary, R.C. 1958. “A note on the comparison of exchange rates and purchasing power between countries”, in *Journal of the Royal Statistical Society (Series A)*, Vol. 121, pp. 97–99.
- Genereux, P.A. 1983. “Impact of the Choice of Formulae on the Canadian Consumer Price Index” in W.E. Diewert and C. Montmarquette (eds.): *Price Level Measurement* (Ottawa: Statistics Canada), pp. 489–535.
- Gilman, S. 1939. *Accounting Concepts of Profit* (New York: The Rolland Press Co.).
- Goldberger, A.A. 1968. “The Interpretation and Estimation of Cobb–Douglas Functions”, in *Econometrica*, Vol. 35, pp. 464–472.
- Goodhart, C. 2001. “What Weights should be Given to Asset Prices in the Measurement of Inflation?”, in *Economic Journal*, Vol. 111, June, F335–F356.
- Gordon, R.J. 1990. *The Measurement of Durable Goods Prices* (Chicago, IL: University of Chicago Press).
- and Z. Griliches. 1997. “Quality Change and New Products”, in *American Economic Review: Papers and Proceedings of the Hundred and Fourth Annual Meeting of the American Economic Association*, Vol. 87, No. 2, pp. 84–88.
- Gorman, W.M. 1980. “A Possible Procedure for Analyzing Quality Differentials in the Egg Market”, in *Review of Economic Studies*, Vol. 47, pp. 843–856.
- Greenlees, J. 1997. “Expenditure Weight Updates and Measured Inflation”, Paper presented at the Third Meeting of the International Working Group on Price Indices, Voorburg, Apr. 16–18.
- . 1999. *Random Errors and Superlative Indexes*, Paper presented at the Annual Conference of the Western Economic Association, 8 July, San Diego, CA.
- . 2000. “Consumer Price Indexes: Methods for Quality and Variety Change”, in *Statistical Journal of the United Nations Economic Commission for Europe*, Vol. 17, No. 1, pp. 37–58.
- . 2003. *Introducing the Chained Consumer Price Index*, Paper presented at the Seventh Meeting of the International

- Working Group on Price Indices, Paris, May 27–29. Available at: <http://www.insee.fr>
- Griliches, Z. 1988. *Technology, Education and Productivity: Early Papers with Notes to Subsequent Literature* (New York: Basil Blackwell).
- . 1990. “Hedonic Price Indices and the Measurement of Capital and Productivity: Some Historical Reflections”, in E.R. Berndt and J.E. Triplett (eds.): *Fifty Years of Economic Measurement: The Jubilee of the Conference on Research in Income and Wealth*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 185–206.
- Guðnason. 1999. *Use of Cash Register Data*, Paper presented at the Fifth Meeting of the International Working Group on Price Indices, Reykjavik, Aug. 25–27. Available at: <http://www.ottawagroup.org>
- Guðnason, R. 2003. *How do we Measure Inflation? Some Measurement Problems*, Paper presented at the Seventh Meeting of the International Working Group on Price Indices, May 27–29, Paris. Available at: <http://www.insee.fr>
- Hardy, G.H., J.E. Littlewood and G. Pólya. 1934. *Inequalities* (Cambridge: Cambridge University Press).
- Harper, M.J., E.R. Berndt and D.O. Wood. 1989. “Rates of Return and Capital Aggregation Using Alternative Rental Prices”, in D.W. Jorgenson and R. Landau (eds.): *Technology and Capital Formation* (Cambridge, MA: The MIT Press), pp. 331–372.
- Haschka, P. 2003. *Simple Methods of Explicit QA for Services in Complex Pricing Schemes*, Paper presented at the Seventh Meeting of the International Working Group on Price Indices, May 27–29, Paris. Available at: <http://www.insee.fr>
- Hausman, J.A. 1997. “Valuation of New Goods Under Perfect and Imperfect Conditions”, in T.F. Bresnahan and R.J. Gordon (eds.): *The Economics of New Goods*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 209–237.
- . 1999. “Cellular Telephone, New Products, and the CPI”, in *Journal of Business and Economic Statistics*, Vol. 17, No. 2, pp. 188–194.
- . 2002. *Sources of Bias and Solutions to Bias in the CPI*, NBER Working Paper 9298 (Cambridge, MA: National Bureau of Economic Research).
- Hawkes, W.J. 1997. *Reconciliation of Consumer Price Index Trends in Average Prices for Quasi-Homogeneous Goods Using Scanning Data*, Paper presented at the Third Meeting of the International Working Group on Price Indices, Voorburg, Apr. 16–18. Available at: <http://www.ottawagroup.org>
- and F.W. Piotrowski. 2003. “Using Scanner Data to Improve the Quality of Measurement in the Consumer Price Index”, in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 17–38.
- Haworth, M.F., D. Fenwick and R. Beaven. 1997. *Recent Developments in the UK Retail Prices Index: Quality Management*, Paper presented at the Third Meeting of the International Working Group on Price Indices, Voorburg, Apr. 16–18. Available at: <http://www.ottawagroup.org>
- Hicks, J.R. 1940. “The Valuation of the Social Income”, in *Economica*, Vol. 7, pp. 105–124.
- . 1941–42. “Consumers’ Surplus and Index Numbers”, in *The Review of Economic Studies*, Vol. 9, pp. 126–137.
- . 1946. *Value and Capital*, Second Edition (Oxford: Clarendon Press).
- Hidiroglou M.A. and J.-M. Berthelot. 1986. “Statistical editing and imputation for periodic business surveys”, in *Survey Methodology*, Vol. 12, No. 1, pp. 73–83.
- Hill, R.J. 1995. *Purchasing Power Methods of Making International Comparisons*, Ph.D. Dissertation (Vancouver: University of British Columbia).
- . 1999a. “Comparing Price Levels across Countries Using Minimum Spanning Trees”, in *The Review of Economics and Statistics*, Vol. 81, pp. 135–142.
- . 1999b. “International Comparisons using Spanning Trees”, in A. Heston and R.E. Lipsey (eds.): *International and Interarea Comparisons of Income, Output and Prices*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 109–120.
- . 1999c. “Chained PPPs and Minimum Spanning Trees”, in A. Heston and R.E. Lipsey (eds.): *International and Interarea Comparisons of Income, Output and Prices*, NBER Studies in Income and Wealth (Chicago, IL: Chicago University Press), pp. 327–364.
- . 1999d. “Comparing Price Levels Across Countries Using Minimum Spanning Trees”, in *The Review of Economics and Statistics*, Vol. 81, pp. 135–142.
- . 2001. “Measuring Inflation and Growth Using Spanning Trees”, in *International Economic Review*, Vol. 42, pp. 167–185.
- . 2002. *Superlative Index Numbers: Not All of them Are Super*, Discussion Paper No. 2002/04, School of Economics (Sydney: University of New South Wales).
- Hill, T.P. 1988. “Recent Developments in Index Number Theory and Practice”, in *OECD Economic Studies*, Vol. 10, pp. 123–148.
- . 1993. “Price and Volume Measures”, in *System of National Accounts 1993* (Brussels/Luxembourg, New York, Paris, New York, and Washington, D.C.: Commission of the European Communities, IMF, OECD, World Bank and United Nations), pp. 379–406.
- . 1996. *Inflation Accounting: A Manual on National Accounting under Conditions of High Inflation* (OECD: Paris).
- . 1998. “The Measurement of Inflation and Changes in the Cost of Living”, in *Statistical Journal of the United Nations ECE*, Vol. 15, pp. 37–51.
- . 1999. *COL Indexes and Inflation Indexes*, Paper tabled at the Fifth Meeting of the International Working Group on Price Indices, Reykjavik, Aug. 25–27. Available at: <http://www.ottawagroup.org>
- Hillinger, C. 2002. *A General Theory of Price and Quantity Aggregation and Welfare Measurement*, CISifo Working Paper No. 818 (Munich: University of Munich).
- Hoffmann, J. 1998. *Problems of Inflation Measurement in Germany*, Discussion Paper 1/98, Economic Research Group of the Deutsche Bundesbank (Frankfurt: Deutsche Bundesbank).
- . 1999. *The Treatment of Quality Changes in the German Consumer Price Index*, Paper presented at the Fifth Meeting of the International Working Group on Price Indices, Reykjavik, Aug. 25–27. Available at: <http://www.ottawagroup.org>
- and C. Kurz. 2002. *Rent Indices for Housing in West Germany: 1985 to 1998*, Discussion Paper 01/02, Economic Research Centre of the Deutsche Bundesbank (Frankfurt: Deutsche Bundesbank).

- Holdway, M. 1999. *An Alternative Methodology: Valuing Quality Changes for Microprocessors in the PPI*, Unpublished Paper (Washington, D.C.: Bureau of Labor Statistics).
- Hottelling, H. 1925. "A General Mathematical Theory of Depreciation", in *Journal of the American Statistical Association*, Vol. 20, pp. 340–353.
- Houthakker, H.S. 1952. "Compensated Changes in Quantities and Qualities Consumed", in *Review of Economic Studies*, Vol. 19, pp. 155–164.
- Hoven, L. 1999. *Some Observations on Quality Adjustment in the Netherlands*, Unpublished Paper, Department of Consumer Prices (Voorburg: Statistics Netherlands).
- Hulten, C.R. 1973. "Divisia Index Numbers", in *Econometrica*, Vol. 41, pp. 1017–1026.
- . 1990. "The Measurement of Capital", in E.R. Berndt and J.E. Triplett (eds.): *Fifty Years of Economic Measurement: The Jubilee of the Conference on Research in Income and Wealth*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 119–158.
- . 1996. "Capital and Wealth in the Revised SNA", in J.W. Kendrick (ed.): *The New System of National Accounts* (New York: Kluwer Academic Publishers), pp. 149–181.
- and F.C. Wykoff. 1981a. "The Estimation of Economic Depreciation using Vintage Asset Prices", in *Journal of Econometrics*, Vol. 15, pp. 367–396.
- . 1981b. "The Measurement of Economic Depreciation", in C.R. Hulten (ed.): *Depreciation, Inflation and the Taxation of Income from Capital* (Washington, D.C.: The Urban Institute Press), pp. 81–125.
- . 1996. "Issues in the Measurement of Economic Depreciation: Introductory Remarks", in *Economic Inquiry*, Vol. 34, pp. 10–23.
- International Labour Organization (ILO). 1987. *Report of the Fourteenth International Conference of Labour Statisticians* (Geneva).
- . 1990. *ISCO-88: International Standard Classification of Occupations* (Geneva).
- . 1998. "Guidelines concerning dissemination practices for labour statistics", in *Report of the Sixteenth International Conference of Labour Statisticians* (Geneva). Web address: <http://www.ilo.org/public/english/bureau/stat/standards/guidelines/index.htm>
- . 2003. *Report III to the Seventeenth International Conference of Labour Statisticians* (Geneva).
- ILO, IMF, OECD, Eurostat, UNECE and the World Bank. 2004. *Producer Price Index Manual* (Brussels/Luxembourg, Geneva, Washington, D.C., Geneva, Washington, D.C.).
- International Monetary Fund (IMF). *General Data Dissemination System (GDDS)*. Web address: <http://dsbb.imf.org/Applications/web/gdds/gddshome/>
- . *Special Data Dissemination Standard (SDDS)*. Web address: <http://dsbb.imf.org/Applications/web/sddshome>
- . 1993. *Balance of Payments Manual, Fifth Edition* (Washington, D.C.).
- . 2001. *Government Financial Statistics Manual* (Washington, D.C.).
- Ioannidis, C. and M. Silver. 1999. "Estimating Hedonic Indices: An Application to UK Television Sets", in *Journal of Economics. Zeitschrift für Nationalökonomie*, Vol. 69, No. 1, pp. 71–94.
- ISO 9000. Geneva, International Standards Organization, 1994. Web address: <http://iso.ch>
- ISO 9001. Geneva, International Standards Organization, 2000. Web address: <http://iso.ch>
- Jacobsen, J. 1997. *Variance Estimation and Sample Allocation in the Finnish CPI*, Memo written for Statistics Finland, Mar. 11.
- Jensen, J.L.W.V. 1906. "Sur les fonctions convexes et les inégalités entre les valeurs moyennes", in *Acta Math.*, Vol. 8, pp. 94–96.
- Jevons, W.S. 1863. "A Serious Fall in the Price of Gold Ascertained and its Social Effects Set Forth", reprinted in *Investigations in Currency and Finance* (London: Macmillan and Co., 1884), pp. 13–118.
- . 1865. "The Variation of Prices and the Value of the Currency since 1782", in *Journal of the Statistical Society of London*, Vol. 28, pp. 294–320; reprinted in *Investigations in Currency and Finance* (London: Macmillan and Co., 1884), pp. 119–150.
- . 1884. "A Serious Fall in the Value of Gold Ascertained and its Social Effects Set Forth. 1863", in *Investigations in Currency and Finance* (London: Macmillan and Co.), pp. 13–118.
- Jorgenson, D.W. 1989. "Capital as a Factor of Production", in D.W. Jorgenson and R. Landau (eds.): *Technology and Capital Formation* (Cambridge, MA: The MIT Press), pp. 1–35.
- . 1996. "Empirical Studies of Depreciation", in *Economic Inquiry*, Vol. 34, pp. 24–42.
- and Z. Griliches. 1967. "The Explanation of Productivity Change", in *Review of Economic Studies*, Vol. 34, pp. 249–283.
- Katz, A.J. 1983. "Valuing the Services of Consumer Durables", in *The Review of Income and Wealth*, Vol. 29, pp. 405–427.
- Kennedy, P. 1998. *A Guide to Econometrics* (Oxford: Blackwell Publishers).
- Kenny, P.B. 1995. *Errors in the Retail Prices Index*, Memo written for the UK Central Statistical Office/Office for National Statistics, 8 Mar.
- Keynes, J.M. 1930. *A Treatise on Money in Two Volumes: I: The Pure Theory of Money* (London: Macmillan).
- Khamis, S.H. 1970. "Properties and Conditions for the Existence of a New Type of Index Numbers", in *Sankhya*, Series B, Vol. 32, pp. 81–98.
- . 1972. "A New System of index Numbers for National and International Purposes", in *Journal of the Royal Statistical Society*, Series A, Vol. 135, pp. 96–121.
- . 1984. "On Aggregation methods for International Comparisons", in *Review of Income and Wealth*, Vol. 30, No. 2, pp. 185–205.
- Knibbs, Sir G.H. 1924. "The Nature of an Unequivocal Price Index and Quantity Index", in *Journal of the American Statistical Association*, Vol. 19, pp. 42–60 and 196–205.
- Kokoski, M.F., K. Waehrer and P. Rozaklis. 2001. *Using Hedonic Methods for Quality Adjustment in the CPI: The Consumer Audio Products Component*, Working Paper No. 344 (Washington, D.C.: Bureau of Labor Statistics).
- , B.R. Moulton and K.D. Zieschang. 1999. "Interarea Price Comparisons for Heterogeneous Goods and Several Levels of Commodity Aggregation", in A. Heston and R.E. Lipsey (eds.): *International and Interarea Comparisons of Income, Output and Prices*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 123–166.
- Konüs, A.A. 1924. "The Problem of the True Index of the Cost of Living", in *The Economic Bulletin of the Institute of*



- Economic Conjecture* (in Russian), No. 9–10, pp. 64–71; published in English in 1939 in *Econometrica*, Vol. 7, pp. 10–29.
- and S.S. Byushgens. 1926. “K probleme pokupatelnoi cili deneg”, in *Voprosi Konyunkturi*, Vol. 2, pp. 151–172.
- Koskimäki, T. and M. Ylä-Jarkko. 2003. *Segmented Markets and CPI Elementary Classifications*, Paper presented at the Seventh Meeting of the International Working Group on Price Indices, Paris, May 27–29. Available at: <http://www.insee.fr/>
- and Y. Vartia. 2001. *Beyond Matched Pairs and Griliches Type Hedonic Methods for Controlling Quality Changes in CPI Subindices*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org>
- Kotler, P. 1991. *Marketing Management*, Seventh Edition (Englewood Cliffs, NJ: Prentice Hall).
- Kravis, I.B., A.W. Heston and R. Summers. 1982. *World Product and Income: International Comparisons of Real Gross Domestic Product* (Baltimore, MD: Johns Hopkins University Press).
- Krueger, A.B. and A. Siskind. 1998. “Using Survey Data to Assess Bias in the Consumer Price Index”, in *Monthly Labor Review*, Vol. 121, No. 4, pp. 24–33.
- Lancaster, K.J. 1966. “A New Approach to Consumer Theory”, in *Journal of Political Economy*, Vol. 74, No. 2, pp. 132–156.
- . 1971. *Consumer Demand: A New Approach* (New York: Columbia University Press).
- Lane, W. 2001. *Addressing the New Goods Problem in the Consumer Price Index*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at <http://www.ottawa.org>
- Laspeyres, E. 1871. “Die Berechnung einer mittleren Waarenpreissteigerung”, in *Jahrbücher für Nationalökonomie und Statistik*, Vol. 16, pp. 296–314.
- Lau, L.J. 1979. “On Exact Index Numbers”, in *Review of Economics and Statistics*, Vol. 61, pp. 73–82.
- Leaver, S.G. and D. Swanson. 1992. “Estimating Variances for the U.S. Consumer Price Index for 1987–1991”, in American Statistical Association: *Proceedings of the Survey Research Methods Section* (Alexandria, VA), pp. 740–745.
- and R. Valliant. 1995. “Statistical Problems in Estimating the U.S. Consumer Price Index”, in Cox et al. (eds.): *Business Survey Methods* (New York: Wiley).
- Lebow, D.E. and J.B. Rudd. 2003. “Measurement Error in the Consumer Price Index: Where Do We Stand?”, in *Journal of Economic Literature*, Vol. 41, pp. 159–201.
- , J.M. Roberts and D.J. Stockton. 1994. *Monetary Policy and the ‘Price Level’*, Unpublished Paper (Washington, D.C.: Board of Governors of the Federal Reserve System), July.
- Lehr, J. 1885. *Beiträge zur Statistik der Preise* (Frankfurt: J.D. Sauerlander).
- Leontief, W. 1936. “Composite Commodities and the Problem of Index Numbers”, in *Econometrica*, Vol. 4, pp. 39–59.
- Lequiller, F. 1997. “Does the French Consumer Price Index Overstate Inflation?”, in L.M. Ducharme (ed.): *Bias in the CPI: Experiences from Five OECD Countries*, Prices Division Analytical Series, No. 10 (Ottawa: Statistics Canada), pp. 25–43.
- Levy, F., H. Beamish, R.J. Murnane and D. Aurtor. 1999. *Computerization and Skills: Example from a Car Dealership*, Brookings Program on Output and Productivity Measurement in the Services Sector, Workshop on Measuring the Output of Business Services, May 14, (Washington, D.C.: Brookings Institution).
- Ley, E. 2003. “Comment”, in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 379–382.
- Liegey Jr., P.R. 1992. “Adjusting apparel indices in the CPI for quality differences”, in M.F. Foss, M. Manser and A. Young (eds.): *Price Measurements and their Uses*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press).
- . 1994. “Apparel Price Indexes: Effects of Hedonic Adjustments”, in *Monthly Labor Review*, Vol. 117, pp. 38–45.
- . 2000. *Hedonic Quality Adjustment Methods for Microwave Ovens in the U.S. CPI*, Methodology Paper (Washington, D.C.: Bureau of Labor Statistics).
- Linder, F. 1996. *Reducing bias in the estimation of consumer price indices by using integrated data*, Research Report (Voorburg: Statistics Netherlands).
- Lloyd, P.J. 1975. “Substitution Effects and Biases in Nontrue Price Indices”, in *American Economic Review*, Vol. 65, pp. 301–313.
- Lowe, J. 1823. *The Present State of England in Regard to Agriculture, Trade and Finance*, Second Edition (London: Longman, Hurst, Rees, Orme and Brown).
- Lowe, R. 1996. “The Type and Extent of Quality Changes in the Canadian CPI”, in J. Dalén (ed.): *Proceedings of the Second Meeting of the International Working Group on Price Indices* (Stockholm: Statistics Sweden), pp. 231–249. Available at: <http://www.ottawagroup.org>
- . 1999. *The Use of the Regression Approach to Quality Change for Durables in Canada*, Paper presented at the Fifth Meeting of the International Working Group on Price Indices, Reykjavik, Aug. 25–27. Available at: <http://www.ottawagroup.org>
- Maddala, G.S. 1988. *Introduction to Econometrics* (New York: Macmillan).
- Malmquist, S. 1953. “Index Numbers and Indifference Surfaces”, in *Trabajos de Estadística*, Vol. 4, pp. 209–242.
- Malpezzi, S., L. Ozanne and T. Thibodeau. 1987. “Microeconomic Estimates of Housing Depreciation”, in *Land Economics*, Vol. 63, pp. 372–385.
- Manser, M.E. and R.J. McDonald. 1988. “An Analysis of Substitution Bias in Measuring Inflation, 1959–85”, in *Econometrica*, Vol. 56, No. 4, pp. 909–930.
- Marshall, A. 1887. “Remedies for Fluctuations of General Prices”, in *Contemporary Review*, Vol. 51, pp. 355–375.
- . 1898. *Principles of Economics*, Fourth Edition (London: The Macmillan Co.).
- Matheson, E. 1910. *The Depreciation of Factories and their Valuation*, Fourth Edition (London: E. & F.N. Spon).
- McClelland, R. and M. Reinsdorf. 1999. *Small Sample Bias in Geometric Mean and Seasoned CPI Component Indexes*, Economic Working Paper (Washington, D.C.: Bureau of Labor Statistics).
- McCracken, P.M., J. Tobin et al. 1999. *Measuring Prices in a Dynamic Economy: Re-Examining the CPI* (New York: The Conference Board).
- Mendelsohn, R. 1984. “Estimating the Structural Equations of Implicit Market and Household Production Functions”, in *Review of Economics and Statistics*, Vol. 66, No. 4, pp. 673–677.

- Mendershausen, H. 1937. "Annual Survey of Statistical Technique: Methods of Computing and Eliminating Changing Seasonal Fluctuations", in *Econometrica*, Vol. 5, pp. 234–262.
- Merkel, F.K. 2000. *Addressing New Item Bias in the Producer Price Indexes: A PPI Quality Improvement Initiative*, Unpublished Paper (Washington, D.C.: Bureau of Labor Statistics).
- Mitchell, W.C. 1927. *Business Cycles* (New York: National Bureau of Economic Research).
- Moulton, B.R. 1996a. *Constant Elasticity Cost-of-Living Index in Share Relative Form* (Washington, D.C.: Bureau of Labor Statistics), Dec.
- . 1996b. "Bias in the Consumer Price Index: What is the Evidence?", in *Journal of Economic Perspectives*, Vol. 10, No. 4, pp. 159–177.
- . 2001. "The Expanding Role of Hedonic Methods in the Official Statistics of the United States", in *Proceedings of a Symposium on Hedonic Methods* (Wiesbaden: Deutsches Bundesbank and German Federal Statistical Office), June.
- and K.E. Moses. 1997. "Addressing the Quality Change Issue in the Consumer Price Index", in *Brookings Papers on Economic Activity*, Vol. 1, pp. 305–366.
- and E.P. Seskin. 1999. "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts", in *Survey of Current Business*, Vol. 79, pp. 6–17.
- , T. LaFleur and K.E. Moses. 1999. "Research on Improved Quality Adjustment in the CPI: The Case of Televisions", in W. Lane (ed.): *Proceedings of the Fourth Meeting of the International Working Group on Price Indices* (Washington, D.C.: Bureau of Labor Statistics), pp. 77–99. Available at: <http://www.ottawagroup.org>
- Mudgett, B.D. 1955. "The Measurement of Seasonal Movements in Price and Quantity Indexes", in *Journal of the American Statistical Association*, Vol. 50, pp. 93–98.
- Muellbauer, J. 1974. "Household Production Theory, Quality, and the 'Hedonic Technique'", in *The American Economic Review*, Vol. 64, No. 6, pp. 977–994.
- Murray, J. and N. Sarantis. 1999. "Price–Quality Relationships and Hedonic Price Indexes for Cars in the United Kingdom", in *International Journal of the Economics of Business*, Vol. 6, No. 1, pp. 1–23.
- Muth, R.F. 1966. "Household Production and Consumer Demand Functions", in *Econometrica*, Vol. 34, pp. 699–708.
- Nevo, A. 2001. *New Products, Quality Changes, and Welfare Measures Computed from Estimated Demand Systems*, NBER Working Paper #W8425 (Cambridge, MA: National Bureau of Economic Research).
- Norberg, A. 1999. "Quality Adjustment: The Case of Clothing", in M. Silver and D. Fenwick (eds.): *Proceedings of the Measurement of Inflation Conference* (Cardiff: Cardiff University). Available at: <http://www.cardiff.ac.uk>
- Nordhaus, W.D. 1998. "Quality Change in Price Indexes", in *Journal of Economic Perspectives*, Vol. 12, No. 1, pp. 59–68.
- Obst, Carl. 2000. "A Review of Bias in the CPI", in *Statistical Journal of the United Nations ECE*, Vol. 17, pp. 37–58.
- Office for National Statistics (UK). 1998. *The Retail Prices Index: A Technical Manual*. Available at: <http://www.statistics.gov.uk>
- Oi, W.Y. 1997. "The Welfare Implications of Invention", in T.F. Bresnahan and R.J. Gordon (eds.): *The Economics of New Goods*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 109–141.
- Okamoto, M. 1999. *Empirical Study of Outlet Sampling Using Scanner Data*, Paper presented at the ILO/ECE Joint Meeting on CPI, Geneva, Nov. 3–5. Available at: <http://www.unece.org>
- . 2001. *Mid-Year Basket Index as a Practical Approximation to a Superlative Index*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org>
- Opperdoes, E. 2001. *Some Empirical Experiments with CES Functions*, Unpublished Paper (Voorburg: Statistics Netherlands).
- Organisation for Economic Co-operation and Development (OECD). 1997. *Synthesis Paper on Shortcomings of the Consumer Price Index Measure of Inflation for Economic Policy Purposes*, Paper prepared for Working Party No. 1 on Macroeconomic and Structural Policy Analysis, ECO/CPE/WP1(97)12, Sep. (Paris).
- . 1998. *FISM, A Note by the OECD Secretariat*, Prepared for the Joint OECD/ESCAP Meeting on National Accounts – 1993 System of National Accounts: Five Years On, Bangkok, May 4–8.
- . 1999. *Purchasing Power Parities and Real Expenditures* (Paris).
- . 2001a. *Measuring Productivity: Measurement of Aggregate and Industry-Level Productivity Growth* (Paris).
- . 2001b. *Measuring Capital: Measurement of Capital Stocks, Consumption of Fixed Capital and Capital Services* (Paris).
- Osgood, W.F. 1925. *Advanced Calculus* (New York: Macmillan).
- Paasche, H. 1874. "Über die Preisentwicklung der letzten Jahre nach den Hamburger Borsennotirungen", in *Jahrbücher für Nationalökonomie und Statistik*, Vol. 12, pp. 168–178.
- Pakes, A. 2001. *A Reconsideration of Hedonic Price Indices with an Application to PC's*, Working Paper No. 8715 (Cambridge, MA: National Bureau of Economic Research), revised November 2001.
- Palgrave, R.H.I. 1886. "Currency and Standard of Value in England, France and India and the Rates of Exchange Between these Countries", in *Memorandum submitted to the Royal Commission on Depression of Trade and Industry*, Third Report, Appendix B, pp. 312–390.
- Parker, P. 1992. "Price Elasticity Dynamics Over the Adoption Life Cycle", in *Journal of Marketing Research*, Vol. XXIX, pp. 358–367.
- Pierson, N.G. 1895. "Index Numbers and Appreciation of Gold", in *Economic Journal*, Vol. 5, pp. 329–335.
- . 1896. "Further Considerations on Index-Numbers", in *Economic Journal*, Vol. 6, pp. 127–131.
- Pigou, A.C. 1920. *The Economics of Welfare* (London: Macmillan).
- Pollak, R.A. 1975. "Subindexes of the Cost of Living", in *International Economic Review*, Vol. 16, pp. 135–160.
- . 1980. "Group Cost-of-Living Indexes", in *American Economic Review*, Vol. 70, pp. 273–278.
- . 1981. "The Social Cost-of-Living Index", in *Journal of Public Economics*, Vol. 15, pp. 311–336.
- . 1983. "The Theory of the Cost-of-Living Index", in W.E. Diewert and C. Montmarquette (eds.): *Price Level Measurement* (Ottawa: Statistics Canada), pp. 87–161; reprinted in R.A. Pollak: *The Theory of the Cost-of-Living Index* (Oxford: Oxford University Press, 1989), pp. 3–52;

- also reprinted in W.E. Diewert (ed.): *Price Level Measurement* (Amsterdam: North-Holland, 1990), pp. 5–77.
- . 1989. “The Treatment of the Environment in the Cost-of-Living Index”, in R.A. Pollak: *The Theory of the Cost-of-Living Index* (Oxford: Oxford University Press), pp. 181–185.
- . 1998. “The Consumer Price Index: A Research Agenda and Three Proposals”, in *Journal of Economic Perspectives*, Vol. 12, No. 1, pp. 69–78.
- Popkin, J. 1997. “Improving the CPI: The Record and Suggested Next Steps”, in *Business Economics*, July, pp. 42–47.
- Prais, S.J. 1959. “Whose Cost of Living?”, in *The Review of Economic Studies*, Vol. 26, pp. 126–134.
- Prennushi, G. 2001. *PPPs and Global Poverty: Strengths and Weaknesses*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- Price Statistics Review Committee. 1961. *The Price Statistics of the Federal Government* (New York: National Bureau of Economic Research).
- Rameshwar, S. 1998. “A Note on Weights for Consumer Price Indices”, in *Inter-Stat No. 18* (Luxembourg, London, Paris: Eurostat, DfID, INSEE), pp. 89–96.
- Rao, D.S. Prasada. 1990. “A System of Log-Change Index Numbers for Multilateral Comparisons”, in J. Salazar-Carrillo and D.S. Prasada Rao (eds.): *Comparisons of Prices and Real Products in Latin America* (Amsterdam: North-Holland).
- . 1995. *On the Equivalence of the Generalized Country-Product-Dummy (CPD) Method and the Rao-System for Multilateral Comparisons*, Working Paper No. 5, Centre for International Comparisons (Philadelphia, PA: University of Pennsylvania).
- . 1997. “Aggregation Methods for International Comparison of Purchasing Power Parities and Real Income: Analytical Issues and Some Recent Developments”, in *Proceedings of the International Statistical Institute, 51st Session*, pp. 197–200.
- . 2001a. *Integration of CPI and ICP: Methodological Issues, Feasibility and Recommendations*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- . 2001b. *Weighted EKS and Generalized Country Product Dummy Methods for Aggregation at Basic Heading Level and above Basic Heading Level*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- and K.S. Banerjee. 1984. “A Multilateral Index Number System Based on the Factorial Approach”, in *Statistische Hefte*, Vol. 27, pp. 297–313.
- and M. Timmer. 2000. *Multilateralisation of Manufacturing Sector comparisons: Issues, Methods and Empirical Results*, Research Memorandum No. GD 47 (Groningen: Groningen Growth and Development Centre).
- , C.J. O’Donnell and E. Ball. 2000. *Transitive Multilateral Comparisons of Agricultural Output and Productivity Using Minimum Spanning Trees and Generalized EKS Methods*, Paper presented at the Workshop on Agricultural Productivity: Data, Methods, and Measures, March 9–10, Washington, D.C.
- Rasmussen, D.W. and T.W. Zuehlke. 1990. “On the Choice of Functional Form for Hedonic Price Functions”, in *The Review of Economics and Statistics*, Vol. 72, pp. 668–675.
- Reese, M. 2000. *Hedonic Quality Adjustment Methods for College Textbooks for the U.S. CPI*, Methodology paper (Cambridge, MA: Bureau of Labor Statistics). Available at: <http://www.bls.gov>.
- Reinsdorf, M.B. 1993. “The Effect of Outlet Price Differentials on the U.S. Consumer Price Index”, in M.F. Foss, M.E. Manser and A.H. Young (eds.): *Price Measurement and their Uses*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 227–254.
- . 1994. *Price Dispersion, Seller Substitution and the U.S. CPI*, Working Paper 252 (Washington, D.C.: Bureau of Labor Statistics).
- . 1996. *Constructing Basic Component Indexes for the U.S. CPI from Scanner Data: A Test Using Data on Coffee*, Working Paper 277 (Washington, D.C.: Bureau of Labor Statistics).
- . 1998. *Divisia Indices and the Representative Consumer Problem*, Paper presented at the Fourth Meeting of the International Working Group on Price Indices, Washington, D.C., Apr. 22–24. Available at: <http://www.ottawagroup.org>
- . 2003. Personal Communication, Sep. 9.
- and B.R. Moulton. 1997. “The Construction of Basic Components of Cost-of-Living Indexes”, in T.F. Bresnahan and R.J. Gordon (eds.): *The Economics of New Goods*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press).
- , P. Liegey, and K. Stewart. 1996. *New Ways of Handling Quality Change in the U.S. Consumer Price Index*, Working Paper 276 (Washington, D.C.: Bureau of Labor Statistics).
- , W.E. Diewert and C. Ehemann. 2002. “Additive Decompositions for the Fisher, Törnqvist and Geometric Mean Indexes”, in *Journal of Economic and Social Measurement*, Vol. 28, pp. 51–61.
- Richardson, D.H. 2003. “Scanner Indexes for the Consumer Price Index”, in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: The University of Chicago Press), pp. 39–65.
- Rosén, B. 1997a. “Asymptotic Theory for Order Sampling”, in *Journal of Statistical Planning and Inference*, Vol. 62, pp. 135–158.
- . 1997b. “On Sampling with Probability Proportional to Size”, in *Journal of Statistical Planning and Inference*, Vol. 62, pp. 159–191.
- Rosen, S. 1974. “Hedonic Prices and Implicit Markets: Product Differentiation and Pure Competition”, in *Journal of Political Economy*, Vol. 82, pp. 34–49.
- Rothwell, D.P. 1958. “Use of Varying Seasonal Weights in Price Index Construction”, in *Journal of the American Statistical Association*, Vol. 53, pp. 66–77.
- Ryten, J. 1998. *The Evaluation of the International Comparison Project (ICP)*, (Washington, D.C.: IMF).
- Samuelson, P.A. 1953. “Prices of Factors and Goods in General Equilibrium”, *Review of Economic Studies*, Vol. 21, pp. 1–20.
- and S. Swamy. 1974. “Invariant Economic Index Numbers and Canonical Duality: Survey and Synthesis”, in *American Economic Review*, Vol. 64, pp. 566–593.
- Särndal, C.-E., B. Swensson and J. Wretman. 1992. *Model Assisted Survey Sampling* (New York: Springer-Verlag).

- Schlömilch, O. 1858. "Über Mittelgrößen verschiedener Ordnungen", in *Zeitschrift für Mathematik und Physik*, Vol. 3, pp. 308–310.
- Schultz, B.J. (Szulc). 1996. "Treatment of Changes in Product Quality in Consumer Price Indices", in J. Dalén (ed.): *Proceedings of the Second Meeting of the International Working Group on Price Indices* (Stockholm: Statistics Sweden), pp. 209–229. Available at: <http://www.ottawagroup.org>
- . 1999. "Effects of Using Various Macro-Index Formulae in Longitudinal Price and Comparisons: Empirical Studies", in W. Lane (ed.): *Proceedings of the Fourth Meeting of the International Working Group on Price Indices* (Washington, D.C.: Bureau of Labor Statistics), pp. 236–249. Available at: <http://www.ottawagroup.org>
- Schultze, C.L. and C. Mackie (eds.). 2002. *At What Price? Conceptualizing and Measuring Cost-of-Living and Price Indices* (Washington, D.C.: National Academy Press).
- Srope, G.P. 1833. *Principles of Political Economy* (London: Longman, Rees, Orme, Brown, Green and Longman).
- Sellwood, D. 2001. *Improving Quality Adjustment in Practice*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org>
- Selvanathan, E.A. and D.S. Prasada Rao. 1994. *Index Numbers: A Stochastic Approach* (Ann Arbor, MI: University of Michigan Press).
- Shapiro, M.D. and D.W. Wilcox. 1997a. "Alternative Strategies for Aggregating Prices in the CPI", in *Federal Reserve Bank of St. Louis Review*, Vol. 79, No. 3, pp. 113–125.
- and D.W. Wilcox. 1997b. *Mismeasurement in the Consumer Price Index: An Evaluation*, Working Paper No. W5590 (Cambridge, MA: National Bureau of Economic Research). Available at: <http://www.nber.org>
- Shephard, R.W. 1953. *Cost and Production Functions* (Princeton, NJ: Princeton University Press).
- . 1970. *Theory of Cost and Production Functions* (Princeton, NJ: Princeton University Press).
- Shepler, N. 2000. *Developing a Hedonic Regression Model for Refrigerators in the U.S. CPI*, Methodology paper (Washington, D.C.: Bureau of Labor Statistics). Web site: <http://www.bls.gov/cpi/cpirfr.htm>.
- Shiratsuka, S. 1999. "Measurement Errors in the Japanese Consumer Price Index", in *Monetary and Economic Studies*, Vol. 17, No. 3, pp. 69–102.
- Sidgwick, H. 1883. *The Principles of Political Economy* (London: Macmillan).
- Silver, M. 1995. "Elementary Aggregates, Micro-Indices and Scanner Data: Some Issues in the Compilation of Consumer Price Indices", in *Review of Income and Wealth*, Vol. 41, pp. 427–438.
- . 1999. "An Evaluation of the Use of Hedonic Regressions for Basic Components of Consumer Price Indices", in *Review of Income and Wealth*, Vol. 45, No. 1, pp. 41–56.
- . 2002. *The Use of Weights in Hedonic Regressions: The Measurement of Quality Adjusted Price Changes*, Unpublished Paper, Cardiff Business School (Cardiff: Cardiff University).
- and S. Heravi. 2001a. "Scanner Data and the Measurement of Inflation", in *The Economic Journal*, 111 June, F384–F405
- and S. Heravi. 2001b. *Hedonic Price Indices and the Matched Models Approach*, Unpublished Paper, Cardiff Business School (Cardiff: Cardiff University).
- and S. Heravi. 2002. *Why the CPI Matched Models Method May Fail Us*, Working Paper 144 (Frankfurt: European Central Bank).
- and S. Heravi. 2003. "The Measurement of Quality Adjusted Price Changes", in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 277–316.
- Sitter, R.R. and R. Balshaw. 1998. *Evaluation of Bias and Variance Estimation of the RPI*, Confidential Report to the Office for National Statistics (UK) (British Columbia: Simon Fraser University).
- Solomons, D. 1961. "Economic and Accounting Concepts of Income", in *The Accounting Review*, Vol. 36, pp. 374–383.
- Solow, R.M. 1957. "Technical Change and the Aggregate Production Function", in *Review of Economics and Statistics*, Vol. 39, pp. 312–320.
- Statistics Sweden. 2001. *Swedish Consumer Price Index: A Handbook of Methods* (Stockholm).
- Stone, R. 1956. *Quantity and Price Indexes in the National Accounts* (Paris: OECD).
- Summers, R. 1973. "International Price Comparisons Based Upon Incomplete Data", in *Review of Income and Wealth*, Vol. 19, No. 1, pp. 1–16.
- Sundgren, B. 1993. "Statistical Metainformation Systems Pragmatics, Semantics", Syntactics, in *Statistical Journal of the United Nations Economic Commission for Europe*, Vol. 10, No. 2, pp. 121–142.
- Szulc, B.J. (Schultz) 1964. "Index Numbers of Multilateral Regional Comparisons" (in Polish), in *Przegląd Statystyczny*, Vol. 3, pp. 239–254.
- . 1983. "Linking Price Index Numbers," in W.E. Diewert and C. Montmarquette (eds.): *Price Level Measurement* (Ottawa: Statistics Canada), pp. 537–566.
- . 1987. "Price Indices below the Basic Aggregation Level", in *Bulletin of Labour Statistics*, Vol. 2, pp. 9–16.
- Tauchen, H. and A.D. Witte. 2001. *Estimating Hedonic Models; Implications of the Theory*, Technical Working Paper No. 271 (Cambridge, MA: National Bureau of Economic Research). Available at: <http://www.nber.org>
- Teekens, R. and J. Koerts. 1972. "Some Statistical Implications of the Log Transformations of Multiplicative Models", in *Econometrica*, Vol. 40, No. 5, pp. 793–819.
- Tellis, G.J. 1988. "The Price Elasticity of Selective Demand: A Meta-Analysis of Econometric Models of Sales", in *Journal of Marketing Research*, Vol. 25, pp. 167–177.
- Theil, H. 1954. *Linear Aggregation of Economic Relations* (Amsterdam: North-Holland).
- . 1967. *Economics and Information Theory* (Amsterdam: North-Holland).
- Törnqvist, L. 1936. "The Bank of Finland's Consumption Price Index", in *Bank of Finland Monthly Bulletin*, Vol. 10, pp. 1–8.
- and E. Törnqvist. 1937. "Vilket är förhållandet mellan finska markens och svenska kronans köpkraft?", in *Ekonomiska Samfundets Tidskrift*, Vol. 39, pp. 1–39; reprinted in *Collected Scientific Papers of Leo Törnqvist* (Helsinki: The Research Institute of the Finnish Economy, 1981), pp. 121–160.
- Trajtenberg, M. 1989. *Economic Analysis of Product Innovation: The Case of CT Scanners*, (Cambridge, MA: Harvard University Press).
- Triplett, J.E. 1981. "Reconciling the CPI and the PCE Deflator", in *Monthly Labor Review*, Sep., pp. 3–15.

- . 1983. "Concepts of Quality in Input and Output Price Measures: A Resolution of the User-Value Resource-Cost Debate", in M.F. Foss (ed.): *The U.S. National Income and Product Accounts: Selected Topics*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 269–311.
- . 1987. "Hedonic Functions and Hedonic Indices", in J. Eatwell, M. Milgate and P. Newman (eds.): *The New Palgrave: A Dictionary of Economics*, Vol. 2 (London: Macmillan), pp. 630–634.
- . 1990. "Hedonic Methods in Statistical Agency Environments: An Intellectual Biopsy", in E.R. Berndt and J.E. Triplett (eds.): *Fifty Years of Economic Measurement: The Jubilee of the Conference on Research in Income and Wealth*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 207–238.
- . 1997. "Current Status of the Debate on the Consumer Price Index in the U.S.", in L.M. Ducharme (ed.): *Bias in the CPI: Experiences from Five OECD Countries*, Prices Division Analytical Series, No. 10 (Ottawa: Statistics Canada), pp. 53–60.
- . 1999. "The Solow Productivity Paradox: What do Computers do to Productivity?", in *Canadian Journal of Economics*, Vol. 32, No. 2, Apr., pp. 309–334.
- . 2001. "Should the Cost-of-Living Index Provide the Conceptual Framework for a Consumer Price Index?", in *The Economic Journal*, Vol. 111, June, F311–F334.
- . 2002. *Handbook on Quality Adjustment of Price Indexes for Information and Communication Technology Products*, Draft, OECD Directorate for Science, Technology and Industry (Paris: OECD).
- . 2003. "Using Scanner Data in Consumer Price Indexes: Some Neglected Conceptual Considerations", in R.C. Feenstra and M.D. Shapiro (eds.): *Scanner Data and Price Indexes*, NBER Studies in Income and Wealth (Chicago, IL: University of Chicago Press), pp. 151–162.
- Trivedi, P.K. 1981. "Some Discrete Approximations to Divisia Integral Indices", in *International Economic Review*, Vol. 22, pp. 71–77.
- Turvey, R. 1979. "The Treatment of Seasonal Items in Consumer Price Indexes", in *Bulletin of Labour Statistics*, Fourth Quarter (Geneva: ILO), pp. 13–33.
- . 1996. *Elementary Aggregate (micro) Indexes*, Paper presented at the Eurostat Seminar on Improving the Quality of Price Indices: CPI and PPP, Florence, Dec. 18–20, 1995.
- . 1998. "New Outlets and New Products", in B. Balk (ed.): *Proceedings of the Third Meeting of the International Working Group on Price Indices* (Voorburg: Statistics Netherlands), pp. 97–110.
- . 1999. "Incorporating New Models into a CPI: PCs as an Example", in M. Silver and D. Fenwick (eds.): *Proceedings of the Measurement of Inflation Conference* (Luxembourg, London, Cardiff: Eurostat, Office for National Statistics, Cardiff University). Available at: <http://www.cardiff.ac.uk>
- . 2000. "True Cost of Living Indexes", in R. Gudnason and D. Gylfadóttir (eds.): *Proceedings of the Fifth Meeting of the International Working Group on Price Indices* (Reykjavik: Statistics Iceland). Available at: <http://www.ottawagroup.org>
- et al. 1989. *Consumer Price Indices: An ILO Manual* (Geneva: ILO).
- U.S. Bureau of Labor Statistics. 1983. "Changing the Home Ownership Component Of the Consumer Price Index to Rental Equivalence", in *CPI Detailed Report* (Washington, D.C.).
- . 1997. *BLS Handbook of Methods*, Bulletin 2490 (Washington, D.C.).
- . 1998. "Measurement Issues in the Consumer Price Index", in *Statistical Journal of the United Nations ECE*, Vol. 15, pp. 1–36.
- U.S. General Accounting Office. 2000. *Consumer Price Index: Update of Boskin Commission's Estimate of Bias*, Report GAO/GGD-00-50 (Washington, D.C.), Feb.
- U.S. Senate, Committee on Finance. 1996. *Final Report of the Advisory Commission to Study the Consumer Price Index*, Print 104-72, 104 Cong., 2nd Session (Washington, D.C.: Government Printing Office).
- United Nations. 1990. *International Standard Industrial Classification of All Economic Activities*, Statistical Papers Series M, No. 4, Rev. 3 (New York).
- . 1992. *Handbook of the International Comparison Program*, Series F, No. 62 (New York).
- . 1994. *Fundamental Principles of Official Statistics*, Adopted by the UN Statistical Commission. UN Economic and Social Council, 1994, Report of the Special Session of the Statistical Commission, New York, 11–15 Apr., 1994, E/1994/29 (New York).
- . 1998a. *Principles and Recommendations for Population and Housing Censuses. Revision 1*, Statistical Papers Series M, No. 67/Rev. 1, Sales No. E.98.XVII.8 (New York).
- . 1998b. *Central Product Classification. CPC. Version 1.0*, Statistical Papers Series M, No. 77, Ver. 1.0 (New York).
- . 1999. *Classifications of Expenditure According to Purpose*, Statistical Papers Series M, No. 84 (New York).
- . 2002. *International Standard Industrial Classification of All Economic Activities*, ISIC, Revision 3.1 (New York: United Nations Statistical Division).
- Van Ijzeren, J. 1987. *Bias in International Index Numbers: A Mathematical Elucidation*, Dissertation for the Hungarian Academy of Sciences (The Hague: Koninklijke Bibliotheek).
- van Mulligen, P.H. 2003. *Quality aspects in price indices and international comparisons: Applications of the hedonic method*, Ph.D. thesis (Groningen: University of Groningen). Web site: <http://www.cbs.nl/en/publications/articles/general/theses/theses.htm>.
- Vartia, Y.O. 1976. *Relative Changes and Index Numbers* (Helsinki: The Research Institute of the Finnish Economy).
- . 1978. "Fisher's Five-Tined Fork and Other Quantum Theories of Index Numbers", in W. Eichhorn, R. Henn, O. Opitz and R.W. Shephard (eds.): *Theory and Applications of Economic Indices* (Würzburg: Physica-Verlag), pp. 271–295.
- Ville, J. 1946. "The Existence-Conditions of a Total Utility Function" (in French); translated in 1951 in *The Review of Economic Studies*, Vol. 19, pp. 123–128.
- Vogt, A. 1977. "Zum Indexproblem: Geometrische Darstellung sowie eine neue Formel", in *Schweizerische Zeitschrift für Volkswirtschaft und Statistik*, Vol. 113, pp. 73–88.
- . 1978. "Divisia Indices on Different Paths", in W. Eichhorn, R. Henn, O. Opitz and R.W. Shephard (eds.): *Theory and Applications of Economic Indices* (Würzburg: Physica-Verlag), pp. 297–305.
- . 1980. "Der Zeit und der Faktorkehrtest als 'Finders of Tests'", in *Statistische Hefte*, Vol. 21, pp. 66–71.
- and J. Barta. 1997. *The Making of Tests for Index Numbers* (Heidelberg: Physica-Verlag).
- von Auer, L. 2001. *An Axiomatic Checkup for Price Indices*, Working Paper No. 1/2001, Faculty of Economics and Management (Magdeburg: Otto von Guericke University).

- . 2002. "Spurious Inflation: The Legacy of Laspeyres and Others", in *The Quarterly Review of Economics and Finance*, Vol. 42, pp. 529–542.
- von der Lippe, P. 2001. *Chain Indices: A Study in Price Index Theory*, Publication Series Spectrum of Federal Statistics, Vol. 16 (Wiesbaden: Statistisches Bundesamt).
- Walras, L. 1954. *Elements of Pure Economics*, translated from French by W. Jaffe (London: George Allen and Unwin); first published in 1874.
- Walsh, C.M. 1901. *The Measurement of General Exchange Value* (New York: Macmillan and Co.).
- . 1921a. *The Problem of Estimation* (London: P.S. King & Son).
- . 1921b. "Discussion", in *Journal of the American Statistical Association*, Vol. 17, pp. 537–544.
- . 1932. "Index Numbers", in E.R.A. Seligman (ed.): *Encyclopedia of the Social Sciences*, Vol. 7 (New York: The Macmillan Co.), pp. 652–658.
- Ward, M. 2001. *True Comparisons in Real and Money Terms*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.
- Westergaard, H. 1890. *Die Grundzüge der Theorie der Statistik* (Jena: Fischer).
- White, A.G. 1999. "Measurement Biases in Consumer Price Indexes", in *International Statistical Review*, Vol. 67, No. 3, pp. 301–325.
- . 2000. "Outlet Types and the Canadian Consumer Price Index", in *Canadian Journal of Economics*, Vol. 33, pp. 488–505.
- Wold, H. 1944. "A Synthesis of Pure Demand Analysis, Part 3", in *Skandinavisk Aktuarietidskrift*, Vol. 27, pp. 69–120.
- . 1953. *Demand Analysis* (New York: John Wiley).
- Wooldridge, J.M. 1996. "Estimating Systems of Equations with Different Instruments for Different Equations", in *Journal of Econometrics*, Vol. 74, pp. 387–405.
- Woolford, K. 1999. "Measuring Inflation: A Framework Based on Domestic Final Purchases", in M. Silver and D. Fenwick: *Proceedings of the Measurement of Inflation Conference* (Cardiff: Cardiff University), pp. 534–543.
- . 2001. *Financial Services in the Consumer Price Index*, Paper presented at the Sixth Meeting of the International Working Group on Price Indices, Canberra, Apr. 2–6. Available at: <http://www.ottawagroup.org>
- Wynne, M.A. 1997. "Commentary", in *Federal Reserve Bank of St. Louis Review*, Vol. 79, No. 3, pp. 161–167.
- . 1999. *Core Inflation: A Review of Some Conceptual Issues*, Research Department Working Paper 99–03 (Dallas, TX: Federal Reserve Bank of Dallas).
- and F.D. Sigalla. 1994. "The Consumer Price Index", in *Federal Reserve Bank of Dallas Economic Review*, Second Quarter, pp. 1–22.
- Young, A. 1812. *An Inquiry into the Progressive Value of Money in England as Marked by the Price of Agricultural Products* (Piccadilly: Hatchard).
- Yule, G.U. 1921. "Discussion of Mr. Flux's Paper", in *Journal of the Royal Statistical Society*, Vol. 84, pp. 199–202.
- Zarnowitz, V. 1961. "Index Numbers and the Seasonality of Quantities and Prices", in G.J. Stigler (Chair): *The Price Statistics of the Federal Government* (New York: National Bureau of Economic Research), pp. 233–304.
- Zieschang, K.D. 1988. *The Characteristics Approach to the Problem of New and Disappearing Goods in Price Indexes*, Working Paper No. 183 (Washington, D.C.: Bureau of Labor Statistics).
- , P.A. Armnecht and D. Smith. 2001. *Integrated Inter-Area and International Price Comparisons with Consumer Price Index Compilation*, Paper presented at the Joint World Bank–OECD Seminar on Purchasing Power Parities: Recent Advances in Methods and Applications, Washington, D.C., Jan. 30–Feb. 2.