
References

- Abbink, K., Irlenbusch, B., Pezanis-Christou, P., Rockenbach, B., Sadrieh, A., and Selten, R. (2001a) An Experimental Test of Design Alternatives for the British 3G/UMTS Auction. Working paper, University of Bonn.
- Abbink, K., Irlenbusch, B., Rockenbach, B., Sadrieh, A., and Selten, R. (2001b) The Behavioural Approach to the Strategic Analysis of Spectrum Auctions: The Case of the German DCS-1800 Auction. Working paper, Universities of Nottingham, Erfurt, Tilburg, and Bonn.
- _____ (2002) The Behavioural Approach to the Strategic Analysis of Spectrum Auctions: The Case of the German DCS-1800 Auction. *ifo Studien*, 48, 457–480.
- Abreu, D. and Gul, F. (2000) Bargaining and Reputation. *Econometrica*, 68, 85–117.
- Anton, J. J. and Yao, D. A. (1989) Split Awards, Procurement, and Innovation. *The RAND Journal of Economics*, 20, 538–552.
- _____ (1992) Coordination in Split Award Auctions. *Quarterly Journal of Economics*, 107, 681–701.
- Armstrong, M. (2000) Optimal Multi-Object Auctions. *Review of Economic Studies*, 67, 455–481.
- Ashenfelter, O. (1989) How Auctions Work for Wine and Art. *Journal of Economic Perspectives*, 3, 23–36.
- Athey, S. (2001) Single-Crossing Properties and the Existence of Pure Strategy Equilibrium in Games of Incomplete Information. *Econometrica*, 69, 861–890.
- Athey, S., Bagwell, K., and Sanchirico, C. (forthcoming) Collusion and Price Rigidity. *Review of Economic Studies*.
- Ausubel, L. M. (forthcoming) An Efficient Ascending-Bid Auction for Multiple Objects. *American Economic Review*.
- Ausubel, L. M. and Cramton, P. (1998a) Demand Reduction and Inefficiency in Multi-Unit Auctions. Mimeo, University of Maryland.
- _____ (1998b) The Optimality of Being Efficient. Mimeo, University of Maryland.
- Ausubel, L. M., Cramton, P., McAfee, R. P., and McMillan, J. (1997) Synergies in Wireless Telephony: Evidence from the Broadband PCS Auctions. *Journal of Economics and Management Strategy*, 6, 497–527.
- Ausubel, L. M. and Milgrom, P. R. (2002) Ascending Auctions with Package Bidding. *Frontiers of Theoretical Economics*, 1, 1–42.
- Ausubel, L. M. and Schwartz, J. A. (1999) The Ascending Auction Paradox. Working paper, University of Maryland.
- Avery, C. (1998) Strategic Jump Bidding in English Auctions. *Review of Economic Studies*, 65, 185–210.
- Avery, C. and Hendershott, T. (2000) Bundling and Optimal Auctions of Multiple Goods. *Review of Economic Studies*, 67, 483–497.

- Back, K. and Zender, J. F. (1993) Auctions of Divisible Goods. *Review of Financial Studies*, 6, 733–764.
- _____ (2001) Auctions of Divisible Goods with Endogenous Supply. *Economics Letters*, 73, 29–34.
- Ballard, C. L., Shoven, J. B., and Whalley, J. (1985) General Equilibrium Computations of the Marginal Welfare Costs of Taxes in the United States. *American Economic Review*, 75, 128–138.
- Banks, J. S., Ledyard, J. O., and Porter, D. (1989) Allocating Uncertain and Unresponsive Resources: An Experimental Approach. *The RAND Journal of Economics*, 20, 1–25.
- Bartolini, L. and Cottarelli, C. (1997) Designing Effective Auctions for Treasury Securities. *Current Issues in Economics and Finance*, Federal Reserve Bank of New York, 3(9), 1–6.
- Baye, M. R., Kovenock, D., and de Vries, C. (1997) Fee Allocation of Lawyer Services in Litigation. Mimeo, Indiana University, Purdue University, and Tinbergen Institute, Erasmus University.
- _____ (1998) A General Linear Model of Contests. Working paper, Indiana University, Purdue University, and Tinbergen Institute, Erasmus University.
- Baye, M. R. and Morgan, J. (1999a) A folk theorem for one-shot Bertrand games. *Economics Letters*, 65, 59–65.
- _____ (1999b) Bounded Rationality in Homogeneous Product Pricing Games. Working paper, Indiana University and Princeton University.
- _____ (2001) Information Gatekeepers on the Internet and the Competitiveness of Homogeneous Product Markets. *American Economic Review*, 91, 454–474.
- Beggs, A. W. and Graddy, K. (1997) Declining Values and the Afternoon Effect: Evidence from Art Auctions. *The RAND Journal of Economics*, 28, 544–565.
- Beggs, A. W. and Klemperer, P. D. (1992) Multi-Period Competition with Switching Costs. *Econometrica*, 60, 651–666.
- Benoit, B. (2000) Bidders Warned in German 3G Phone Auction. *The Financial Times*, 2 August, 28.
- Benoît, J.-P. and Krishna, V. (2001) Multi-Object Auctions with Budget Constrained Bidders. *Review of Economic Studies*, 68, 155–179.
- Bernhardt, D. and Scoones, D. (1994) A Note on Sequential Auctions. *American Economic Review*, 84, 653–657.
- Bernheim, B. D. and Whinston, M. D. (1986) Menu Auctions, Resource Allocation, and Economic Influence. *Quarterly Journal of Economics*, 101, 1–31.
- Betton, S. and Eckbo, E. B. (1995) Toeholds, Competition and State-contingent Payoffs: An Experimental Investigation. *Journal of Economics and Management Strategy*, 6, 573–603.
- Bikhchandani, S. (1988) Reputation in Repeated Second-Price Auctions. *Journal of Economic Theory*, 46, 97–119.
- _____ (1999) Auctions of Heterogeneous Objects. *Games and Economic Behavior*, 26, 193–220.
- Bikhchandani, S. and Huang, C-F. (1993) The Economics of Treasury Securities Markets. *Journal of Economic Perspectives*, 7, 117–134.
- Bikhchandani, S. and Riley, J. G. (1991) Equilibria in Open Common Value Auctions. *Journal of Economic Theory*, 53, 101–130.
- Black, J. and de Meza, D. (1992) Systematic Price Divergences Between Successive

- Auctions Are No Anomaly. *Journal of Economics and Management Strategy*, 1, 607–628.
- Bliss, C. and Nalebuff, B. (1984) Dragon-Slaying and Ballroom Dancing: The Private Supply of a Public Good. *Journal of Public Economics*, 25, 1–12.
- Board, S. A. (1999) Commitment in Auctions. M.Phil Thesis, Nuffield College, Oxford University.
- Bolle, F. (1992) Supply Function Equilibria and the Danger of Tacit Collusion: The Case of Spot Markets for Electricity. *Energy Economics*, 14, 94–102.
- Börgers, T. and Dustmann, C. (2002a) Rationalizing the UMTS Spectrum Bids: The Case of the UK Auction. *ifo Studien* 48, 77–109.
- _____ (2002b) Strange Bids: Bidding Behavior in the United Kingdom's Third Generation Spectrum Auction. Working paper, University College London.
- Branco, F. (1997) The Design of Multidimensional Auctions. *The RAND Journal of Economics*, 28, 63–81.
- Brusco, S. and Lopomo, G. (2002a) Collusion via Signaling in Simultaneous Ascending Bid Auctions with Heterogeneous Objects, With and Without Complementarities. *Review of Economic Studies*, 69, 407–436.
- _____ (2002b) Simultaneous Ascending Auctions with Budget Constraints. Working Paper, Stern School of Business, New York University.
- Budish, E. B. and Takeyama, L. (2001) English Auctions with Buy Prices: Irrationality on the Internet? *Economics Letters*, 72, 325–333.
- Bulow, J. I., Geanakoplos, J. D., and Klemperer, P. D. (1985a) Multimarket Oligopoly: Strategic Substitutes and Complements. *Journal of Political Economy*, 93, 488–511.
- _____ (1985b) Holding Idle Capacity to Deter Entry. *Economic Journal*, 95, 178–182.
- Bulow, J. I., Huang, M., and Klemperer, P. D. (1995) Toeholds and Takeovers: General Characterization, Existence, and Uniqueness of Equilibrium. Mimeo, Stanford University and Nuffield College, Oxford University.
- _____ (1999) Toeholds and Takeovers. *Journal of Political Economy*, 107, 427–454 (also reprinted in Biaisi, B. and Pagano, M. (eds.) (2002) *New Research in Corporate Finance and Banking*, Oxford University Press, pp. 91–116).
- Bulow, J. I. and Klemperer, P. D. (1994) Rational Frenzies and Crashes. *Journal of Political Economy*, 102, 1–23 (also reprinted in Biaisi, B. and Pagano, M. (eds.) (2002) *New Research in Corporate Finance and Banking*, Oxford University Press, pp. 91–116).
- _____ (1996) Auctions vs. Negotiations. *American Economic Review*, 86, 180–194.
- _____ (1998) The Tobacco Deal. *Brookings Papers on Economic Activity (Microeconomics)*, 323–394.
- _____ (1999) The Generalized War of Attrition. *American Economic Review*, 89, 175–189.
- _____ (2002) Prices and the Winner's Curse. *The RAND Journal of Economics*, 33, 1–21.
- _____ (forthcoming) Privacy and Prices. Discussion paper, Nuffield College, Oxford University.
- Bulow, J. I. and Roberts, D. J. (1989) The Simple Economics of Optimal Auctions. *Journal of Political Economy*, 97, 1060–1090.

- Burguet, R. and Sákovics, J. (1996) Reserve Prices without Commitment. *Games and Economic Behavior*, 15, 149–164.
- _____ (1999) Imperfect Competition in Auction Designs. *International Economic Review*, 40, 231–247.
- Burrough, B. and Helyar, J. (1990) *Barbarians at the Gate: The Fall of RJR Nabisco*. London: Arrow.
- Cable, J., Henley, A., and Holland, K. (2002) Pot of Gold or Winner's Curse? An Event Study of the Auctions of 3G Mobile Telephone Licences in the UK. *Fiscal Studies*, 23, 447–462.
- Cai, H.-B. (2000) Delay in Multilateral Bargaining under Complete Information. *Journal of Economic Theory*, 93, 260–276.
- Caillaud, B. and Jehiel, P. (1998) Collusion in Auctions with Externalities. *The RAND Journal of Economics*, 29, 680–702.
- Cane, A. and Owen, D. (2000) The UK Cellular Phone Auction. *Financial Times*, London, 28 April, 23.
- Capen, E. C., Clapp, R. V., and Campbell, W. M. (1971) Competitive Bidding in High-Risk Situations. *Journal of Petroleum Technology*, 23, 641–653.
- Cassady, R. Jr. (1967) *Auctions and Auctioneering*. Berkeley and Los Angeles, CA: University of California Press.
- Cauley, L. and Carnevale, M. L. (1994) Wireless Giants, Some Surprise Players to Seek New Generation of Licenses. *The Wall Street Journal*, October 31, A4.
- Chatterjee, K. and Samuelson, W. (1983) Bargaining under Incomplete Information. *Operations Research*, 31, 835–851.
- Che, Y.-K. (1993) Design Competition through Multidimensional Auctions. *The RAND Journal of Economics*, 24, 668–680.
- Che, Y.-K. and Gale, I. L. (1996) Expected Revenue of All-Pay Auctions and First-Price Sealed-Bid Auctions with Budget Constraints. *Economics Letters*, 50, 367–371.
- _____ (1998) Standard Auctions with Financially Constrained Bidders. *Review of Economic Studies*, 65, 1–21.
- Clark, C. (1939) *The Conditions of Economic Progress*. London: Macmillan.
- Coase, R. H. (1959) The Federal Communications Commission. *Journal of Law and Economics*, 2, 1–40.
- Cramton, P. (1997) The FCC Spectrum Auctions: An Early Assessment. *Journal of Economics and Management Strategy*, 6, 431–495.
- Cramton, P., Gibbons R., and Klemperer, P. D. (1987) Dissolving a Partnership Efficiently. *Econometrica*, 55, 615–632.
- Cramton, P. and Schwartz, J. A. (2000) Collusive Bidding: Lessons from the FCC Spectrum Auctions. *Journal of Regulatory Economics*, 17, 229–252.
- _____ (2002) Collusive Bidding in the FCC Spectrum Auctions. *Contributions to Economic Analysis & Policy*, 1, article 11 (<http://www.bepress.com/bejeap/contributions/vol1/iss1/art11>).
- Crossland, D. (2000) Austrian UMTS Auction Unlikely to Scale Peaks. Reuters, October 31. Available at <http://www.totaltele.com>.
- Crémer, J. and McLean, R. P. (1985) Optimal Selling Strategies under Uncertainty for a Discriminatory Monopolist when Demands Are Interdependent. *Econometrica*, 53, 345–361.

- _____ (1988) Full Extraction of the Surplus in Bayesian and Dominant Strategy Auctions. *Econometrica*, 56, 1247–1257.
- Daniel, K. and Hirshleifer, D. (1995) A Theory of Costly Sequential Bidding. Mimeo, Universities of Chicago and Michigan.
- Daripa, A. (1996a) Quantities Rather Than Prices: Market Allocation, Informational Free-Rides and the Value of Inside Information. Mimeo, Birkbeck College, London.
- _____ (1996b) A Theory of Treasury Auctions. Mimeo, Birkbeck College, London.
- Dasgupta, P. S., Hammond, P. J., and Maskin, E. S. (1979) The Implementation of Social Choice Rules: Some General Results on Incentive Compatibility. *Review of Economic Studies*, 46, 185–216.
- Dasgupta, P. S. and Maskin, E. (2000) Efficient Auctions. *Quarterly Journal of Economics*, 115, 341–388.
- Engelbrecht-Wiggans, R. (1987) Optimal Reservation Prices in Auctions. *Management Science*, 33, 763–770.
- _____ (1993) Optimal Auctions Revisited. *Games and Economic Behavior*, 5, 227–239.
- _____ (1994) Sequential Auctions of Stochastically Equivalent Objects. *Economics Letters*, 44, 87–90.
- Engelbrecht-Wiggans, R. and Kahn, C. M. (1998a) Multi-unit Auctions with Uniform Prices. *Economic Theory*, 12, 227–258.
- _____ (1998b) Multi-Unit Pay-Your-Bid Auctions with Variable Awards. *Games and Economic Behavior*, 23, 25–42.
- _____ (1998c) Low Revenue Equilibria in Simultaneous Auctions. Working paper, University of Illinois.
- Engelbrecht-Wiggans, R., Milgrom, P. R., and Weber, R. J. (1983) Competitive Bidding and Proprietary Information. *Journal of Mathematical Economics*, 11, 161–169.
- Esteves, R. (forthcoming) Targeted Advertising and Price Discrimination in the New Media. DPhil thesis, Oxford University.
- Esó, P. (1999) Optimal Auctions with Correlated Information and Risk Aversion. Mimeo, Harvard University.
- Ewerhart, C. and Moldovanu, B. (2001) A Stylized Model of the German UMTS Auction. Working paper, University of Mannheim, Germany.
- _____ (2002) The German UMTS Design: Insights from Multi-Object Auction Theory. *ifo Studien*, 48, 158–174.
- Feddersen, T. J. and Pesendorfer, W. (1996) The Swing Voter's Curse. *American Economic Review*, 86, 408–424.
- _____ (1998) Convicting the Innocent: The Inferiority of Unanimous Jury Verdicts under Strategic Voting. *American Political Science Review*, 92, 23–35.
- Federico, G. and Rahman, D. (2000) Bidding in an Electricity Pay-As-Bid Auction. Working paper, Nuffield College.
- von der Fehr, N.-H. (1994) Predatory Bidding in Sequential Auctions. *Oxford Economic Papers*, 46, 345–356.
- von der Fehr, N.-H. and Harbord, D. (1993) Spot Market Competition in the UK Electricity Industry. *Economic Journal*, 103, 531–546.
- _____ (1998) Competition in Electricity Spot Markets: Economic Theory and Inter-

- national Experience. Memorandum No. 5/1998, Department of Economics, University of Oslo.
- von der Fehr, N.-H. and Riis, C. (1999) Option Values in Sequential Markets. Mimeo, University of Oslo and Norwegian School of Management.
- Feldstein, M. (1999) Tax Avoidance and the Deadweight Loss of the Income Tax. *Review of Economics and Statistics*, 81, 674–680.
- Fishman, M. J. (1988) A Theory of Pre-emptive Takeover Bidding. *The RAND Journal of Economics*, 19, 88–101.
- Fortis Bank (2000) The UMTS Report, Brussels.
- Friedman, L. (1956) A Competitive Bidding Strategy. *Operations Research*, 4, 104–112.
- Friedman, M. (1953) *Essays in Positive Economics*, Chicago: University of Chicago Press.
- Fudenberg, D. and Kreps, D. M. (1987) Reputation in the Simultaneous Play of Multiple Opponents. *Review of Economic Studies*, 54, 541–568.
- Fudenberg, D. and Tirole, J. (1986) A Theory of Exit in Duopoly. *Econometrica*, 54, 943–960.
- _____ (1991) *Game Theory*. Cambridge, MA: MIT Press.
- Fudenberg, D., Gilbert, R., Stiglitz, J., and Tirole, J. (1983) Preemption, Leapfrogging and Competition in Patent Races. *European Economic Review*, 22, 3–31.
- Fullerton, R. and McAfee, R. P. (1999) Auctioning Entry into Tournaments. *Journal of Political Economy*, 107, 573–605.
- Gale, I. L. and Hausch, D. B. (1994) Bottom-Fishing and Declining Prices in Sequential Auctions. *Games and Economic Behavior*, 7, 318–331.
- Gale, I. L., Hausch, D. B., and Stegeman, M. (2000) Sequential Procurement with Subcontracting. *International Economic Review*, 41, 989–1020.
- Gale, I. L. and Stegeman, M. (2001) Sequential Auctions of Endogenously Valued Objects. *Games and Economic Behavior*, 36, 74–103.
- Gibbon, E. (1776) *History of the Decline and Fall of the Roman Empire*. London: Strahan and Cadell.
- Gibbons, R. (1992) *Game Theory for Applied Economists*. Princeton, NJ: Princeton University Press.
- Gilbert, R. and Klempere, P. D. (2000) An Equilibrium Theory of Rationing. *The RAND Journal of Economics*, 31, 1–21.
- Ginsburgh, V. (1998) Absentee Bidders and the Declining Price Anomaly in Wine Auctions. *Journal of Political Economy*, 106, 1302–1319.
- Graham, D. A. and Marshall, R. C. (1987) Collusive Bidder Behavior at Single-Object Second-Price and English Auctions. *Journal of Political Economy*, 95, 1217–1239.
- Graham, D. A., Marshall, R. C., and Richard, J.-F. (1990) Differential Payments within a Bidder Coalition and the Shapley Value. *American Economic Review*, 80, 493–510.
- Green, R. J. (1996) Increasing Competition in the British Electricity Spot Market. *Journal of Industrial Economics*, 44, 205–216.
- Green, R. J. and Newbery, D. M. (1992) Competition in the British Electricity Spot Market. *Journal of Political Economy*, 100, 929–953.
- Griesmer, J. H., Levitan, R. E., and Shubik, M. (1967) Toward a Study of Bidding Processes Part IV: Games with Unknown Costs. *Naval Research Logistics Quarterly*, 14, 415–433.

- Grimm, V., Riedel F., and Wolfstetter, E. (2002) The Third Generation (UMTS) Spectrum Auction in Germany. *ifo Studien*, 48, 123–143.
- _____. (2003) Low Price Equilibrium in Multi-Unit Auctions: The GSM Spectrum Auction in Germany. *International Journal of Industrial Organization*, 21, 1557–1569.
- Haigh, J. and Cannings, C. (1989) The n-Person War of Attrition. *Acta Applicandae Mathematicae*, 14, 59–74.
- Haile, P. (1996) Auctions with Resale Markets. PhD dissertation, Northwestern University.
- Hall, R. E. (2001) *Digital Dealing*. New York: W. W. Norton.
- Hansard (1998), written answer to Parliamentary Question, 18 May.
- Hansen, R. G. (1986) Sealed Bids versus Open Auctions: The Evidence. *Economic Inquiry*, 24, 125–142.
- _____. (1988) Auctions with Endogenous Quantity. *The RAND Journal of Economics*, 19, 44–58.
- Hansen, R. G. and Lott, J. R., Jr. (1991) The Winner's Curse and Public Information in Common Value Auctions: Comment. *American Economic Review*, 81, 347–361.
- Harford, T. (1998) Sequential Auctions with Financially Constrained Bidders. MPhil thesis, Oxford University, available at www.timharford.com.
- Harris, M. and Raviv, A. (1981) Allocation Mechanisms and the Design of Auctions. *Econometrica*, 49, 1477–1499.
- Harris, M. and Townsend, R. M. (1981) Resource Allocation Under Asymmetric Information. *Econometrica*, 49, 33–64.
- Harstad, R. M. (1990) Alternative Common Values Auction Procedures: Revenue Comparisons with Free Entry. *Journal of Political Economy*, 98, 421–429.
- Harstad, R. M., Kagel, J., and Levin, D. (1990) Equilibrium Bid Functions for Auctions with an Uncertain Number of Bidders. *Economics Letters*, 33, 35–40.
- Harstad, R. M. and Rothkopf, M. H. (1994) Modeling Competitive Bidding: A Critical Essay. *Management Science*, 40, 364–384.
- Hausch, D. B. (1986) Multi-Object Auctions: Sequential vs. Simultaneous Sales. *Management Science*, 32, 1599–1610.
- Hendricks, K. and Paarsch, H. J. (1995) A Survey of Recent Empirical Work Concerning Auctions. *Canadian Journal of Economics*, 28, 403–426.
- Hendricks, K. and Porter, R. H. (1988) An Empirical Study of an Auction with Asymmetric Information. *American Economic Review*, 78, 865–883.
- _____. (1989) Collusion in Auctions. *Annales D'Économie et de Statistique*, 15/16, 217–230.
- Hendricks, K., Porter, R. H., and Tan, G. (1999) Joint Bidding in Federal Offshore Oil and Gas Lease Auctions. Working paper, University of British Columbia.
- Holt, C. A. Jr. (1980) Competitive Bidding for Contracts under Alternative Auction Procedures. *Journal of Political Economy*, 88, 433–445.
- Holt, C. A. Jr. and Sherman, R. (1982) Waiting-Line Auctions. *Journal of Political Economy*, 90, 280–294.
- Hughes, J. W. and Snyder, E. A. (1995) Litigation and Settlement Under the English and American Rules: Theory and Evidence. *Journal of Law and Economics*, 38, 225–250.

- Jehiel, P. and Moldovanu, B. (1996) Strategic Nonparticipation. *The RAND Journal of Economics*, 27, 84–98.
- _____ (2000) A Critique of the Planned Rules for the German UMTS/IMT-2000 License Auction. Working paper, University College London and University of Mannheim.
- _____ (2001a) Efficient Design with Interdependent Valuations. *Econometrica*, 69, 1237–1259.
- _____ (2001b) The European UMTS/IMT-2000 License Auctions. Working paper, University College London and University of Mannheim.
- _____ (2002) An Economic Perspective on Auctions. Working Paper, University College London and University of Mannheim.
- Jehiel, P., Moldovanu, B., and Stacchetti, E. (1996) How (Not) to Sell Nuclear Weapons. *American Economic Review*, 86, 814–829.
- Kagel, J. H. (1995) Auctions: A Survey of Experimental Research. In Kagel, J. H. and Roth, A. E. (eds.), *The Handbook of Experimental Economics*. Princeton, NJ: Princeton University Press, pp. 501–586.
- Kagel, J. H. and Roth, A. E. (eds.) (1995) *The Handbook of Experimental Economics*. Princeton, NJ: Princeton University Press.
- Kambe, S. (1999) Bargaining with Imperfect Commitment. *Games and Economic Behavior*, 28, 217–237.
- Kaplan, T. and Wettstein, D. (2000) The Possibility of Mixed-Strategy Equilibria with Constant>Returns-to-Scale Technology under Bertrand Competition. *Spanish Economic Review*, 2, 65–71.
- Keynes, J. M. (1933) *Essays in Biography*. London: Macmillan.
- Klemperer, P. D. (1987a) Markets with Consumer Switching Costs. *Quarterly Journal of Economics*, 102, 375–394.
- _____ (1987b) The Competitiveness of Markets with Switching Costs. *The RAND Journal of Economics*, 18, 138–150.
- _____ (1995) Competition when Consumers have Switching Costs: An Overview with Applications to Industrial Organization, Macroeconomics, and International Trade. *Review of Economic Studies*, 62, 515–539.
- _____ (1998) Auctions with Almost Common Values. *European Economic Review*, 42, 757–769.
- _____ (1999a) Auction Theory: A Guide to the Literature. *Journal of Economic Surveys*, 13, 227–286 (also reprinted in Dahiya, S. (ed.) (1999) *The Current State of Economic Science*, vol. 2. India: Spellbound Publications, pp. 711–766; also reprinted as chapter 1 of this volume).
- _____ (1999b) Applying Auction Theory to Economics. 1999 draft of Invited Lecture to Eighth World Congress of the Econometric Society, at www.paulklempere.org.
- _____ (ed.) (2000a) *The Economic Theory of Auctions*. Cheltenham, UK: Edward Elgar.
- _____ (2000b) What Really Matters in Auction Design. May 2000 Working paper, Nuffield College, Oxford University (revised version reprinted as chapter 3 of this volume).
- _____ (2000c) Spectrum on the Block. *Wall Street Journal*, 5 October, p. 8 and available at www.paulklempere.org.

- _____ (2002) Using and Abusing Economic Theory. Working paper, Nuffield College, Oxford (revised version reprinted as chapter 4 of this volume).
- Klemperer, P. D. and Meyer, M. A. (1986) Price Competition vs. Quantity Competition: The Role of Uncertainty. *The RAND Journal of Economics*, 17, 618–638.
- _____ (1989) Supply Function Equilibria in Oligopoly Under Uncertainty. *Econometrica*, 57, 1243–1277.
- Klemperer, P. D. and Pagnozzi, M. (forthcoming) Advantaged Bidders and Spectrum Prices: An Empirical Analysis. Working paper, Nuffield College, Oxford University.
- Klemperer, P. D. et al. (forthcoming) Auctions for Environmental Improvements: the UK ETS Auction. Working paper, Nuffield College, Oxford.
- Koselka, R. (1995) Playing Poker with Craig McCaw. *Forbes*, July 3, 62–63.
- Kremer, I. (2002) Information Aggregation in Common Value Auctions. *Econometrica*, 70, 1675–1682.
- Krishna, K. (1993) Auctions with Endogenous Valuations: The Persistence of Monopoly Revisited. *American Economic Review*, 83, 147–160.
- Krishna, V. (2002) *Auction Theory*, San Diego, CA: Academic Press.
- Krishna, V. and Morgan, J. (1997) An Analysis of the War of Attrition and the All-Pay Auction. *Journal of Economic Theory*, 72, 343–362.
- Kühn, K.-U. and Vives, X. (1995) *Information Exchanges Among Firms and their Impact on Competition*. European Commission Document. Luxembourg: Office for Official Publications of the European Communities, pp. 146.
- Laffont, J.-J. (1997) Game Theory and Empirical Economics: The Case of Auction Data. *European Economic Review*, 41, 1–35.
- Laffont, J.-J., Ossard, H., and Vuong, Q. (1995) Econometrics of First-Price Auctions. *Econometrica*, 63, 953–980.
- Laffont, J.-J. and Tirole, J. (1987) Auctioning Incentive Contracts. *Journal of Political Economy*, 95, 921–937.
- Laffont, J.-J. and Vuong, Q. (1996) Structural Analysis of Auction Data. *American Economic Review*, 86, 414–420.
- Lebrun, B. (1996) Existence of an Equilibrium in First Price Auctions. *Economic Theory*, 7, 421–443.
- Lee, H. G. (1998) Do Electronic Marketplaces Lower the Price of Goods? *Communications of the ACM*, 41, 73–80.
- Lee, H. G., Westland, J. C., and Hong, S. (1999) The Impact of Electronic Marketplaces on Product Prices: An Empirical Study of AUCNET. *International Journal of Electronic Commerce* 4(2), 45–60.
- Leininger, W., Linhart, P. B., and Radner, R. (1989) Equilibria of the Sealed Bid Mechanism for Bargaining with Incomplete Information. *Journal of Economic Theory*, 48, 63–106.
- Levin, D., Kagel, J. H., and Richard, J.-F. (1996) Revenue Effects and Information Processing in English Common Value Auctions. *American Economic Review*, 86, 442–460.
- Levin, D. and Smith, J. L. (1994) Equilibrium in Auctions with Entry. *American Economic Review*, 84, 585–599.
- _____ (1996a) Optimal Reservation Prices in Auctions. *Economic Journal*, 106, 1271–1283.

- _____ (1996b) Ranking Auctions with Risk Averse Bidders. *Journal of Economic Theory*, 68, 549–561.
- Levin, J. (1996) Auctions for Complements and Substitutes. MPhil thesis, Oxford University.
- Lizzeri, A. and Persico, N. (2000) Uniqueness and Existence of Equilibrium in Auctions with a Reserve Price. *Games and Economic Behavior*, 30, 83–114.
- Lopomo, G. (1998) The English Auction is Optimal among Simple Sequential Auctions. *Journal of Economic Theory*, 82, 144–166.
- Lucking-Reiley, D. (2000) Vickrey Auctions in Practice: From Nineteenth-Century Philately to Twenty-First-Century E-Commerce. *Journal of Economic Perspectives*, 14, 183–192.
- Maasland, E. (2000) Veilingmiljarden Zijn een Fictie (Billions from Auctions: Wishful Thinking). *Economisch Statistische Berichten*, June 9, 479; translation available at www.pauklempereer.org.
- Machlup, F. (1946) Marginal Analysis and Empirical Research. *American Economic Review*, 36, 519–554.
- Mailath, G. J. and Zemsky, P. (1991) Collusion in Second Price Auctions with Heterogeneous Bidders. *Games and Economic Behavior*, 3, 467–486.
- Malvey, P. F., Archibald, C. M., and Flynn, S. T. (1996) Uniform-Price Auctions: Evaluation of the Treasury Experience. Working Paper, US Treasury.
- Manelli, A. M. and Vincent, D. R. (1995) Optimal Procurement Mechanisms. *Econometrica*, 63, 591–620.
- Marshall, A. (1890) *Principles of Economics*. London: Macmillan.
- _____ (1906) Letter to A. L. Bowley, February 27, 1906. In Pigou, A. C. (ed.), *Memorials of Alfred Marshall*. London: Macmillan, pp. 427–428.
- Marshall, R. C. and Meurer, M. J. (2002) The Economics of Bidder Collusion. In Chatterjee, Kalyan (ed.), *Game Theory and Business Applications*. Norwell, MA: Kluwer.
- Marshall, R. C., Meurer, M. J., Richard, J.-F., and Stromquist, W. (1994) Numerical Analysis of Asymmetric First Price Auctions. *Games and Economic Behavior*, 7, 193–220.
- Maskin, E. S. (1992) Auctions and Privatization. In Siebert, H. (ed.), *Privatization: Symposium in Honor of Herbert Giersch*. Tübingen: Mohr (Siebeck), pp. 115–136.
- Maskin, E. S. and Riley, J. G. (1984) Optimal Auctions with Risk Averse Buyers. *Econometrica*, 52, 1473–1518.
- _____ (1985) Auction Theory with Private Values. *American Economic Review*, 75, 150–155.
- _____ (1989) Optimal Multi-Unit Auctions. In Hahn, F. (ed.), *The Economics of Missing Markets, Information, and Games*. Oxford: Oxford University Press, Clarendon Press, pp. 312–335.
- _____ (2000a) Equilibrium in Sealed High Bid Auctions. *Review of Economic Studies*, 67, 439–454
- _____ (2000b) Asymmetric Auctions. *Review of Economic Studies*, 67, 413–438.
- _____ (forthcoming) Uniqueness of Equilibrium in Sealed High-Bid Auctions. *Games and Economic Behavior*.
- Matthews, S. A. (1983) Selling to Risk Averse Buyers with Unobservable Tastes. *Journal of Economic Theory*, 3, 370–400.

- _____ (1984) Information Acquisition in Discriminatory Auctions. In Boyer, M. and Kihlstrom, R. E. (eds), *Bayesian Models in Economic Theory*. New York: North-Holland, pp. 181–207.
- _____ (1987) Comparing Auctions for Risk-Averse Buyers: A Buyer's Point of View. *Econometrica*, 55, 633–646.
- Maxwell, C. (1983) *Auctioning Divisible Commodities: A Study of Price Determination*. PhD dissertation, Harvard University.
- Maynard Smith, J. (1974) The Theory of Games and the Evolution of Animal Conflicts. *Journal of Theoretical Biology*, 47, 209–219.
- McAdams, D. (1998), Adjustable Supply and 'Collusive-seeming Equilibria' in the Uniform-price Share Auction. Working paper, Stanford University.
- McAfee, R. P. (1992) A Dominant Strategy Double Auction. *Journal of Economic Theory*, 56, 434–450.
- _____ (1993) Mechanism Design by Competing Sellers. *Econometrica*, 61, 1281–1312.
- McAfee, R. P. and McMillan, J. (1986) Bidding for Contracts: A Principal-Agent Analysis. *The RAND Journal of Economics*, 17, 326–338.
- _____ (1987a) Auctions and Bidding. *Journal of Economic Literature*, 25, 699–738.
- _____ (1987b) Auctions with a Stochastic Number of Bidders. *Journal of Economic Theory*, 43, 1–19.
- _____ (1987c) Auctions with Entry. *Economics Letters*, 23, 343–347.
- _____ (1987d) Competition for Agency Contracts. *The RAND Journal of Economics*, 18, 296–307.
- _____ (1988) Search Mechanisms. *Journal of Economic Theory*, 44, 99–123.
- _____ (1989) Government Procurement and International Trade. *Journal of International Economics*, 26, 291–308.
- _____ (1992) Bidding Rings. *American Economic Review*, 82, 579–599.
- _____ (1994) Selling Spectrum Rights. *Journal of Economic Perspectives*, 8, 145–162.
- _____ (1996) Analyzing the Airwaves Auction. *Journal of Economic Perspectives*, 10, 159–175.
- McAfee, R. P., McMillan, J., and Reny, P. J. (1989) Extracting the Surplus in the Common Value Auction. *Econometrica*, 57, 1451–1460.
- McAfee, R. P. and Reny, P. J. (1992) Correlated Information and Mechanism Design. *Econometrica*, 60, 395–421.
- McAfee, R. P. and Vincent, D. (1993) The Declining Price Anomaly. *Journal of Economic Theory*, 60, 191–212.
- _____ (1997) Sequentially Optimal Auctions. *Games and Economic Behavior*, 18, 246–276.
- McMillan, J. (1994) Selling Spectrum Rights. *Journal of Economic Perspectives*, 8, 145–162.
- Mead, W. J. and Schneipp, M. (1989) Competitive Bidding for Federal Timber in Region 6, An Update: 1983–1988. Santa Barbara, CA: Community and Organization Research Institute, University of California.
- Meeks, R. (2001) An Event Study of the Swiss UMTS Auction. Research Note, Nuffield College, Oxford University.
- Menezes, F. (1996) Multiple-unit English Auctions. *European Journal of Political Economy*, 12, 671–684.

- Menezes, F. M. and Monteiro, P. K. (2000) Auctions with Endogenous Participation. *Review of Economic Design*, 5, 71–89.
- _____ (in preparation) *An Introduction to Auction Theory*.
- Menezes, F., Monteiro P. K. and Temimi, A. (2000) Discrete Public Goods with Incomplete Information. Working paper, EPGE/FGV.
- Michelson, M. (2000) Swiss 3G auction set to become battle of giants. *Reuters*, November 9; available at <http://www.totaltele.com/>.
- Milgrom, P. R. (1979) A Convergence Theorem for Competitive Bidding with Differential Information. *Econometrica*, 47, 679–688.
- _____ (1981) Rational Expectations, Information Acquisition, and Competitive Bidding. *Econometrica*, 49, 921–943.
- _____ (1985) The Economics of Competitive Bidding: A Selective Survey. In Hurwicz, L., Schmeidler, D. and Sonnenschein, H. (eds.), *Social Goals and Social Organization: Essays in Memory of Elisha Pazner*. Cambridge: Cambridge University Press.
- _____ (1987) Auction Theory. In Bewley, T. F. (ed.), *Advances in Economic Theory: Fifth World Congress*. Cambridge: Cambridge University Press.
- _____ (1989) Auctions and Bidding: A Primer. *Journal of Economic Perspectives*, 3, 3–22.
- _____ (2000) Putting Auction Theory to Work: The Simultaneous Ascending Auction. *Journal of Political Economy*, 108, 245–272.
- _____ (2004) *Putting Auction Theory to Work*. Cambridge, UK: Cambridge University Press.
- Milgrom, P. R. and Roberts, D. J. (1982) Limit Pricing and Entry under Incomplete Information: An Equilibrium Analysis. *Econometrica*, 50, 443–459.
- Milgrom, P. R. and Weber, R. J. (1982a) A Theory of Auctions and Competitive Bidding. *Econometrica*, 50, 1089–1122.
- _____ (1982b) The Value of Information in a Sealed-Bid Auction. *Journal of Mathematical Economics*, 10, 105–114.
- _____ (2000) A Theory of Auctions and Competitive Bidding II. In Klemperer, P. (ed.), *The Economic Theory of Auctions*, Cheltenham, UK: Edward Elgar, vol. II, pp. 179–194.
- Mirrlees, J. A. (1971) An Exploration in the Theory of Optimum Income Taxation. *Review of Economic Studies*, 38, 175–208.
- Mussa, M. and Rosen, S. (1978) Monopoly and Product Quality. *Journal of Economic Theory*, 18, 301–317.
- Myerson, R. B. (1979) Incentive Compatibility and the Bargaining Problem. *Econometrica*, 47, 61–73.
- _____ (1981) Optimal Auction Design. *Mathematics of Operations Research*, 6, 58–73.
- Myerson, R. B. and Satterthwaite, M. A. (1983) Efficient Mechanisms for Bilateral Trade. *Journal of Economic Theory*, 29, 265–281.
- National Audit Office (2001) *The Auction of Radio Spectrum for the Third Generation of Mobile Telephones*. London: The Stationery Office, and available at www.nao.gov.uk.
- Newbery, D. M. (1998) Competition, Contracts, and Entry in the Electricity Spot Market. *The RAND Journal of Economics*, 29, 726–749.

- Nyborg, K. G. (1997) On Complicity in Share Auctions. Mimeo, London Business School.
- Nyborg, K. and Sundaresan, S. (1996) Discriminatory Versus Uniform Treasury Auctions: Evidence from When-issued Transactions. *Journal of Financial Economics*, 42, 63–104.
- Office of Gas and Electricity Markets (1999) *The New Electricity Trading Arrangements*, July, available at www.open.gov.uk/offer/reta.htm.
- Ortega Reichert, A. (1968a) Models for Competitive Bidding Under Uncertainty. PhD thesis, Stanford University (and Technical Report No. 8, Department of Operations Research, Stanford University).
- _____ (1968b) A Sequential Game with Information Flow. Chapter 8 in *Models for Competitive Bidding Under Uncertainty*, PhD thesis, Stanford University, pp. 232–254. Also in Klemperer, P. D. (ed.) (2000) *The Economic Theory of Auctions* (with foreword by S. A. Board and P. D. Klemperer). Cheltenham, UK: Edward Elgar.
- Paarsch, H. J. (1991) Empirical Models of Auctions and an Application to British Columbian Timber Sales. Discussion paper, University of British Columbia.
- Pagnozzi, M. (2002) Sorry Winners. Working paper, Oxford University.
- _____ (forthcoming) Post-auction Takeovers. Working paper, Oxford University.
- Palfrey, T. R. (1983) Bundling Decisions by a Multiproduct Monopolist with Incomplete Information. *Econometrica*, 51, 463–484.
- Perry, M. and Reny, P. J. (1998) Ex-Post Efficient Auctions for Agents with Interdependent Values. Working paper, Hebrew University of Jerusalem and University of Pittsburgh.
- _____ (1999) On the Failure of the Linkage Principle in Multi-Unit Auctions. *Econometrica*, 67, 895–900.
- Persico, N. (2000a) Games of Redistribution Politics are Equivalent to All-Pay Auctions with Consolation Prizes. Working paper, University of Pennsylvania.
- _____ (2000b) Information Acquisition in Auctions. *Econometrica*, 68, 135–148.
- Pesendorfer, W. and Swinkels, J. M. (1997) The Loser's Curse and Information Aggregation in Common Value Auctions. *Econometrica*, 65, 1247–1281.
- _____ (2000) Efficiency and Information Aggregation in Auctions. *American Economic Review*, 90, 499–525.
- Peters, M. and Severinov, S. (1997) Competition Among Sellers Who Offer Auctions Instead of Prices. *Journal of Economic Theory*, 75, 141–179.
- Piccione, M. and Tan, G. (1996) A Simple Model of Expert and Non Expert Bidding in First Price Auctions. *Journal of Economic Theory*, 70, 501–515.
- Pitchik, C. (1995) Budget-Constrained Sequential Auctions with Incomplete Information. Mimeo, University of Toronto.
- Pitchik, C. and Schotter, A. (1988) Perfect Equilibria in Budget Constrained Sequential Auctions: An Experimental Study. *The RAND Journal of Economics*, 19, 363–388.
- Plott, C. (1997) Laboratory Experimental Testbeds: Application to the PCS Auction. *Journal of Economics and Management Strategy*, 6, 605–638.
- Plott, C. and Salmon, T. (forthcoming) The Simultaneous, Ascending Auction: Dynamics of Price Adjustment in Experiments and in the UK 3G Spectrum Auction. *Journal of Economic Behavior and Organization*.
- Porter, R. H. (1995) The Role of Information in U.S. Offshore Oil and Gas Lease Auctions, *Econometrica*, 63, 1–27.

- Power U.K. (1999) The Problems with the Pool. Issue 66, August 31, 14.
- Radiocommunications Agency (1998a) UMTS Auction Design. UMTS Auction Consultative Group Paper 14 of 1998, available as UACG(98)14 at www.spectrumauctions.gov.uk.
- _____ (1998b) UMTS Auction Design 2. UMTS Auction Consultative Group Report, 98, 16, available at www.spectrumauctions.gov.uk.
- Reece, D. K. (1979) An Analysis of Alternative Bidding Systems for Leasing Offshore Oil. *Bell Journal of Economics*, 10, 659–669.
- Reinhart, V. and Belzer, G. (1996) Some Evidence on Bid Sharing and the Use of Information in the U.S. Treasury's Auction Experiment. Working Paper, Board of Governors of the Federal Reserve System.
- Riley, J. G. (1980) Strong Evolutionary Equilibrium and The War of Attrition. *Journal of Theoretical Biology*, 82, 383–400.
- _____ (1988) Ex Post Information in Auctions. *Review of Economic Studies*, 55, 409–430.
- _____ (1989a) Expected Revenue from Open and Sealed Bid Auctions. *Journal of Economic Perspectives*, 3, 41–50.
- _____ (1989b) An Introduction to the Theory of Contests. In Kuhn, H. W. and Szego, G. (eds.), *Incomplete Information and Bounded Rationality Decision Models*. Berlin: Springer-Verlag.
- Riley, J. G. and Li, H. (1997) Auction Choice: A Numerical Analysis. Mimeo, University of California at Los Angeles.
- Riley, J. G. and Samuelson, W. F. (1981) Optimal Auctions. *American Economic Review*, 71, 381–392.
- Riordan, M. H. and Sappington, D. E. M. (1987) Awarding Monopoly Franchises. *American Economic Review*, 77, 375–387.
- Robert, J. (undated, ≈1995) Sequential Descending-Price Auctions with Multi-Unit Demand. Mimeo, Université de Montreal.
- Robert, J., Laffont, J.-J., and Loisel, P. (1994) Repeated Descending-Price Auctions I: Theory. Mimeo, Université de Montreal, Université de Toulouse, and INRA.
- Roberts, D. (2000) Phone Numbers that Could Well Result in Panic. *The Financial Times*, October 19, 38.
- Roberts, D. and Ward, A. (2000) Little Gold at the End of the Spectrum. *The Financial Times*, November 3, 21.
- Robinson, M. S. (1985) Collusion and the Choice of Auction. *The RAND Journal of Economics*, 16, 141–145.
- Rosenthal, R. W. (1980) A Model in which an Increase in the Number of Sellers Leads to a Higher Price. *Econometrica*, 48, 1575–1579.
- Roth, A. E. (2002) The Economist as Engineer: Game Theory, Experimentations, and Computation as Tools for Design Economics. *Econometrica*, 70, 1341–1378.
- Rothkopf, M. H. (1969) A Model of Rational Competitive Bidding. *Management Science*, 15, 362–373.
- _____ (1980) On Multiplicative Bidding Strategies. *Operations Research*, 25, 570–575.
- _____ (1994) Models of Auctions and Competitive Bidding. In Pollock, S. M., Rothkopf, M.H., and Barnett, A. (eds.), *Handbooks in Operations Research and Management Science*. New York: North-Holland, volume 6, chapter 19.

- Rothkopf, M. H. and Engelbrecht-Wiggans, R. (1993) Misapplications Reviews: Getting the Model Right—The Case of Competitive Bidding. *Interfaces*, 23, 99–106.
- Rothkopf, M. H., Harstad, R. M., and Fu, Y. (2003) Is Subsidizing Inefficient Bidders Actually Costly? *Management Science*, 49, 71–84.
- Rothkopf, M. H., Pekeč, A., and Harstad, R. M. (1998) Computationally Manageable Combinational Auctions. *Management Science*, 44, 1131–1147.
- Rothkopf, M. H., Teisberg, T. J., and Kahn, E. P. (1990) Why are Vickrey Auctions Rare. *Journal of Political Economy*, 98, 94–109.
- Rothschild, M. and Stiglitz, J. E. (1970) Increasing Risk I: A Definition. *Journal of Economic Theory*, 2, 225–243.
- Rustichini, A., Satterthwaite, M. A., and Williams, S. R. (1994) Convergence to Efficiency in a Simple Market with Incomplete Information. *Econometrica*, 62, 1041–1063.
- Salant, D. (1997) Up in the Air: GTE's Experience in the MTA Auction for Personal Communication Services Licenses. *Journal of Economics and Management Strategy*, 6, 549–572.
- _____ (2000) Auctions and Regulation: Reengineering of Regulatory Mechanisms. *Journal of Regulatory Economics*, 17, 195–204.
- Satterthwaite, M. A. and Williams, S. R. (1989a) The Rate of Convergence to Efficiency in the Buyer's Bid Double Auction as the Market Becomes Large. *Review of Economic Studies*, 56, 477–498.
- _____ (1989b) Bilateral Trade with the Sealed Bid k-Double Auction: Existence and Efficiency. *Journal of Economic Theory*, 48, 107–133.
- Schmidt, K. (2002) Efficiency of the British UMTS Auction: A Comment on Börgers and Dustmann. *ifo Studien*, 48, 111–114.
- Scott Morton, F., Zettelmeyer, F., and Silva Riso, J. (2001) Internet Car Retailing. *Journal of Industrial Economics*, 49, 501–519.
- Shubik, M. (1983) Auctions, Bidding, and Markets: An Historical Sketch. In R. Engelbrecht-Wiggans, M. Shubik, and J. Stark (eds), *Auctions, Bidding, and Contracting*. New York: New York University Press, pp. 33–52.
- Sills, D. L. (ed.) (1968) *International Encyclopedia of the Social Sciences*. New York: Macmillan and The Free Press, vol. 10.
- Simon, D. (1994) The Treasury's Experiment with Single-Price Auctions in the Mid-1970's: Winner's or Taxpayer's Curse? *Review of Economics and Statistics*, 76, 754–760.
- Spence, M. A. (1972) Market Signalling: The Informational Structure of Job Markets and Related Phenomena. PhD thesis, Harvard University.
- Spulber, D. F. (1990) Auctions and Contract Enforcement. *Journal of Law, Economics and Organization*, 6, 325–344.
- _____ (1995) Bertrand Competition when Rivals' Costs are Unknown. *Journal of Industrial Economics*, 43, 1–12.
- Stevens, M. (1994) Labour Contracts and Efficiency in On-the-Job Training. *Economic Journal*, 104, 408–419.
- _____ (2000) Reconciling Theoretical and Empirical Human Capital Earnings Functions. Working paper, Nuffield College, Oxford University.
- Stigler, G. J. (1964) A Theory of Oligopoly. *Journal of Political Economy*, 72, 44–61.

- Stuewe, H. (1999) Auktion von Telefonfrequenzen: Spannung bis zur letzten Minute. *Frankfurter Allgemeine Zeitung*, October 29.
- Swinkels, J. M. (2001) Efficiency of Large Private Value Auctions. *Econometrica*, 69, 37–68.
- Thisse, J. and Vives, X. (1988) On the Strategic Choice of Spatial Price Policy. *American Economic Review*, 78, 122–137.
- Total Telecom (2000) Italy's UMTS auction to start October 19. Reuters staff, October 12; available at <http://www.totaltele.com/>.
- U.K. Monopolies and Mergers Commission (1999) British Sky Broadcasting Group plc and Manchester United plc: A Report on the Proposed Merger. Cm 4305. London: The Stationery Office.
- Ulph, D. and Vulkan, N. (2001) E-Commerce, Mass Customisation and Price Discrimination. Mimeo, UCL and University of Bristol.
- van Damme, E. (1999) The Dutch DCS-1800 Auction. In Patrone, Fioravante, Garcia-Jurado, Ignacio, and Tijs, Stef (eds.), *Game Practice: Contributions from Applied Game Theory*. New York: Kluwer, pp. 53–73.
- _____ (2002) The European UMTS Auctions. *European Economic Review*, 45, 846–858.
- Vickrey, W. (1961) Counterspeculation, Auctions and Competitive Sealed Tenders. *Journal of Finance*, 16, 8–37.
- _____ (1962) Auction and Bidding Games. In *Recent Advances in Game Theory*. Princeton, NJ: The Princeton University Conference, pp. 15–27.
- _____ (1976) Auctions Markets and Optimum Allocations. In Amihud, Y. (ed.), *Bidding and Auctioning for Procurement and Allocation: Studies in Game Theory and Mathematical Economics*. New York: New York University Press, pp. 13–20.
- Vives, X. (2002) Private Information, Strategic Behavior, and Efficiency in Cournot Markets. *The RAND Journal of Economics*, 33, 361–376.
- Wahrer, K. (1995) A Model of Auction Contracts with Liquidated Damages. *Journal of Economic Theory*, 67, 531–555.
- Wahrer, K., Harstad, R. M. and Rothkopf, M. H. (1998) Auction Form Preferences of Risk-Averse Bidders. *The RAND Journal of Economics*, 29, 179–192.
- Wang, J. J. D. and Zender, J. F. (2002) Auctioning Divisible Goods. *Economic Theory*, 19, 673–705.
- Waterson, M. (1984) *Economic Theory of the Industry*. Cambridge, UK: Cambridge University Press.
- Weber, R. J. (1983) Multi-Object Auctions. In Engelbrecht-Wiggans, R., Shubik, M., and Stark, R. M. (eds.), *Auctions, Bidding, and Contracting*. New York: New York University Press, pp. 165–191.
- _____ (1985) Auctions and Competitive Bidding. In Young, H. P. (ed.), *Fair Allocation, American Mathematical Society Proceedings of Symposia in Applied Mathematics*. Providence, RI: American Mathematical Society, pp. 143–170.
- _____ (1997) Making More from Less: Strategic Demand Reduction in the FCC Spectrum Auctions. *Journal of Economics and Management Strategy*, 6, 529–548.
- Wighton, D. (1995a) Wellcome Accepts Glaxo Bid and Criticises Trust. *The Financial Times*, March 8, 27.
- _____ (1995b) Wellcome Still Smarting Over Handling of Trust's Stake. *The Financial Times*, March 8, 32.

- Williams, S. R. (1991) Existence and Convergence of Equilibria in the Buyer's Bid Double Auction. *Review of Economic Studies*, 58, 351–374.
- Wilson, R. (1967) Competitive Bidding with Asymmetric Information. *Management Science*, 13, A816–A820.
- _____ (1969) Competitive Bidding with Disparate Information. *Management Science*, 15, 446–448.
- _____ (1977) A Bidding Model of Perfect Competition. *Review of Economic Studies*, 44, 511–518.
- _____ (1979) Auctions of Shares. *Quarterly Journal of Economics*, 93, 675–689.
- _____ (1985) Incentive Efficiency of Double Auctions. *Econometrica*, 53, 1101–1115.
- _____ (1992) Strategic Analysis of Auctions. In Aumann, R. J. and Hart, S. (eds.), *Handbook of Game Theory, Volume 1*. Amsterdam: Elsevier, pp. 228–279.
- _____ (1998) Sequential Equilibria of Asymmetric Ascending Auctions: The Case of Log-Normal Distributions. *Economic Theory*, 12, 433–440.
- _____ (2002) Architecture of Power Markets. *Econometrica*, 70, 1299–1340.
- Wolfram, C. D. (1998) Strategic Bidding in a Multiunit Auction: An Empirical Analysis of Bids to Supply Electricity in England and Wales. *The RAND Journal of Economics*, 29, 703–725.
- _____ (1999) Measuring Duopoly Power in the British Electricity Spot Market. *American Economic Review*, 89, 805–826.
- Wolfstetter, E. (1996) Auctions: An Introduction. *Journal of Economic Surveys*, 10, 367–420.
- _____ (2003) The Swiss UMTS Spectrum Auction Flop: Bad Luck or Bad Design? In Nutzinger, H.-G. (ed.), *Regulation, Competition, and the Market Economy*. Festschrift for C. C. v. Weizsäcker. Göttingen: Vandenhoeck & Ruprecht, pp. 281–294.
- Wruck, K. H. (1994) Financial Policy, Internal Control, and Performance: Sealed Air Corporation's Leveraged Special Dividend. *Journal of Financial Economics*, 36, 157–192.
- Zheng, C. Z. (2001) High Bids and Broke Winners. *Journal of Economic Theory*, 100, 129–171.