

## Sage Journals

### We value your privacy

We and our [partners](#) store and/or access information on a device, such as cookies and process personal data, such as unique identifiers and standard information sent by a device for personalised advertising and content, advertising and content measurement, audience research and services development. With your permission we and our partners may use precise geolocation data and identification through device scanning. You may click to consent to our and our 1462 partners' processing as described above. Alternatively you may click to refuse to consent or access more detailed information and change your preferences before consenting. Please note that some processing of your personal data may not require your consent, but you have a right to object to such processing. Your preferences will apply to this website only. You can change your preferences or withdraw your consent at any time by returning to this site and clicking the "Privacy" button at the bottom of the webpage.

ACCEPT ALL

MORE OPTIONS

DECLINE ALL



---

Buraimo B., Simmons R., Szymanski S. (2006). English football. *Journal of Sports Economics*, 7, 29–46.

[Crossref](#)

[Google Scholar](#)

---

Coates D., Humphreys B. (2007). Ticket prices, concessions and attendance at professional sporting events. *International Journal of Sport Finance*, 2, 161–170.

[Google Scholar](#)

---

Coates D., Humphreys B., Zhou L. (2014). Reference-dependent preferences, loss aversion, and live game attendance. *Economic Inquiry*, 52, 959–973.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Demmert H. G. (1973). *The economics of professional team sports*. Lexington, MA: Heath.

[Google Scholar](#)

---

Driscoll J. C., Kraay A. C. (1998). Consistent covariance matrix estimation with spatially dependent panel data. *The Review of Economics and Statistics*, 80, 549–560.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Forrest D., Simmons R. (2002). Uncertainty and attendance demand in sport: The case of English soccer. *The Statistician*, 51, 229–241.

[Google Scholar](#)

---

Forrest D., Simmons R. (2006). New issues in attendance demand. The case of the English Football League. *Journal of Sports Economics*, 7, 247–266.

[Crossref](#)

[Google Scholar](#)

---

Forrest D., Simmons R., Szymanski S. (2004). Broadcasting, attendance and the inefficiency of cartels. *Review of Industrial Organization*, 24, 243–265.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Frankfurter Rundschau. (2017). *Amateure attackieren DFB. Ex-Unterhaching-Boss Kupka will für Klubs ein größeres Stück vom Kuchen erstreiten (Amateurs attack the DFB. Kupka, the former manager of Unterhaching, claims a bigger piece of the cake for clubs)*. Retrieved April 28, 2017, from <http://www.fr.de/sport/fussball-amateure-attackieren-dfb-a-737721>

[Google Scholar](#)

---

Gärtner M., Pommerehne W. (1978). Der Fußballzuschauer—Ein homo oeconomicus? (The football viewer—A homo oeconomicus?). *Jahrbuch für Sozialwissenschaft*, 29, 88–107.

[Google Scholar](#)

---

Gitter S. R., Rhoads T. A. (2010). Determinants of minor league Baseball attendance. *Journal of Sports Economics*, 11, 614–628.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Göke S., Prinz J., Weimar D. (2014). Diamonds are forever: Job-matching and career success of young workers. *Journal of Economics and Statistics*, 234, 450–473.

[Google Scholar](#)

---

Hansen H., Gauthier R. (1989). Factors affecting attendance at professional sport events. *Journal of Sport Management*, 3, 15–32.

[Crossref](#)

[Google Scholar](#)

Hart R. A., Hutton J., Sharot T. (1975). A statistical analysis of association football attendances. *Journal of the Royal Statistical Society*, 24, 17–27.

[Google Scholar](#)

---

Hill J. R., Mandura J., Zuber R. A. (1982). The short run demand for major league Baseball. *Atlantic Economic Journal*, 10, 31–35.

[Crossref](#)

[Google Scholar](#)

---

Hoechle D. (2007). Robust standard errors for panel regressions with cross-sectional dependence. *The Stata Journal*, 7, 281–312.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Hotelling H. (1929). Stability in competition. *Economic Journal*, 39, 41–57.

[Crossref](#)

[Google Scholar](#)

---

Hynds M., Smith I. (1994). The demand for test match cricket. *Applied Economics Letters*, 1, 103–106.

[Crossref](#)

[Google Scholar](#)

---

Késenne S. (1980). Time-allocation and the linear expenditure system. *Recherches Economiques de Louvain*, 46, 113–124.

[Google Scholar](#)

---

Késenne S. (1983). Substitution in consumption: An application to the allocation of time. *European Economic Review*, 23, 231–239.

[Crossref](#)

[Google Scholar](#)

MacDonald G. M. (1988). The economics of rising stars. *American Economic Review*, 78, 155–166.

[Web of Science](#)

[Google Scholar](#)

---

Mills B. M., Rosentraub M. S. (2014). The National Hockey League and cross-border fandom: Fan substitution and international boundaries. *Journal of Sports Economics*, 15, 497–518.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Mills B. M., Winfree J. A., Rosentraub M. S., Sorokina E. (2015). Fan substitution between North American professional sports leagues. *Applied Economics Letters*, 22, 563–566.

[Crossref](#)

[Google Scholar](#)

---

Mongeon K., Winfree J. A. (2013). The effects of cross-ownership and league policies across sports leagues within a city. *Review of Industrial Organization*, 43, 145–162.

[Crossref](#)

[Google Scholar](#)

---

Nalbantis G., Pawlowski T., Coates D. (2017). The fans' perception of competitive balance and its impact on willingness-to-pay for a single game. *Journal of Sports Economics*, 18, 479–505.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Newey W. K., West K. D. (1994). Automatic lag selection in covariance matrix estimation. *Review of Economic Studies*, 61, 631–653.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Noll R. G. (1974). Attendance and price setting. In Noll R. G. (Ed.), *Government and the sports business* (pp. 115–158). Washington, DC: Brookings Institution.

[Google Scholar](#)

---

Paul R. J. (2003). Variations in NHL attendance. The impact of violence, scoring, and regional rivalries. *American Journal of Economics and Sociology*, 62, 345–364.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Pawlowski T., Anders C. (2012). Stadium attendance in German professional football—The (un)importance of uncertainty of outcome reconsidered. *Applied Economics Letters*, 19, 1553–1556.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Pawlowski T., Nalbantis G., Coates D. (2017). Perceived game uncertainty, suspense and the demand for sport. *Economic Inquiry*. doi:10.1111/ecin.12462

[Crossref](#)

[Google Scholar](#)

---

Peel D. A., Thomas D. A. (1992). The demand for football: Some evidence on outcome uncertainty. *Empirical Economics*, 17, 323–331.

[Crossref](#)

[Google Scholar](#)

---

Rascher D. A., Brown M. T., Nagel M. S., McEvoy C. D. (2009). Where did National Hockey League fans go during the 2004–2005 lockout? An analysis of economic competition between leagues. *International Journal of Sport Management and Marketing*, 5, 183–195.

[Crossref](#)

[Google Scholar](#)

---

Rosen S. (1981). The economics of superstars. *American Economic Review*, 71, 845–858.

[Web of Science](#)

[Google Scholar](#)

---

Rottenberg S. (1956). The baseball players' labor market. *Journal of Political Economy*, 64, 242–258.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Scelles N., Szymanski S., Dermitt-Richard N. (2016). Insolvency in French soccer: The case of payment failure. *Journal of Sports Economics*. doi:10.1177/1527002516674510

[Crossref](#)

[Google Scholar](#)

---

Theil H. (1967). *Economics and information theory*. Amsterdam, the Netherlands: North Holland.

[Google Scholar](#)

---

Winfrey J. A. (2009a). Fan substitution and market definition in professional sports leagues. *The Antitrust Bulletin*, 54, 801–822.

[Crossref](#)

[Google Scholar](#)

---

Winfrey J. A. (2009b). Owners' incentives during the 2004–05 National Hockey League lockout. *Applied Economics*, 41, 3275–3285.

[Crossref](#)

[Google Scholar](#)



Winfree J. A., Fort R. (2008). Fan substitution and the 2004–05 NHL lockout. *Journal of Sports Economics*, 9, 425–434.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Winfree J. A., McCluskey J., Mittelhammer R., Fort R. (2004). Location and attendance in major league baseball. *Applied Economics*, 36, 2117–2124.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

---

Wooldridge J. M. (2002). *Econometric analysis of cross section and panel data*. Cambridge: MIT Press.

[Google Scholar](#)

---

Zhang J. J., Smith D. W., Pease D. G., Jambor E. A. (1997). Negative influence of market competitors on the attendance of professional sport games: The case of a minor league hockey team. *Sport Marketing Quarterly*, 6, 34–40.

[Google Scholar](#)

## Biographies

**Tim Wallrafen** is an Academic Assistant and a PhD candidate at the University of Tübingen, Germany. His research interests include the analysis of sports demand as well as the financing of sports systems.

**Tim Pawlowski** is a Professor of sport economics at the University of Tübingen, Germany. His research interests include the analysis of sports demand, the financing of sports systems, and the economics of league competitions.

**Christian Deutscher** is a Professor of sport economics at the Bielefeld University, Germany. His research focuses on effort and sabotage in contests as well as match fixing.

Similar articles:

---



 Restricted access  
[The Demand for Football in Portugal: New Insights on Outcome Uncertainty](#)

Show details 

---

 Restricted access

[League Ranking Mobility Affects Attendance: Evidence From European Soccer Leagues](#)

Show details 

---

 Restricted access

[Competitive Intensity, Fans' Expectations, and Match-Day Tickets Sold in the Italian Football Serie A, 2012-2015](#)

Show details 

---

[View more](#)

Sage recommends:

---

**SAGE Knowledge**

Book chapter

[Economics of Attendance](#)

Show details 

---

**SAGE Knowledge**

Case

[Selling to Visiting Fans at the Expense of Home Field Advantage](#)

Show details 

---

**CQ Researcher**

Report

[The Future of Baseball](#)

Show details 

---

[View more](#)

## Also from Sage

### CQ Library

Elevating debate

### Sage Data

Uncovering insight

### Sage Business Cases

Shaping futures

### Sage Campus

Unleashing potential

### Sage Knowledge

Multimedia learning resources

### Sage Research Methods

Supercharging research

### Sage Video

Streaming knowledge

### Technology from Sage

Library digital services

We value your privacy We and our partners store and/or access information on a device, such as cookies and process personal data, such as unique identifiers and standard information sent by a device for personalised advertising and content, advertising and content measurement, audience research and services development. With your permission we and our partners may use precise geolocation data and identification through device scanning. You may click to consent to our and our 1462 partners' processing as described above. Alternatively you may click to refuse to consent or access more detailed information and change your preferences before consenting. Please note that some processing of your personal data may not require your consent, but you have a right to object to such processing. Your preferences will apply to this website only. You can change your preferences or withdraw your consent at any time by returning to this site and clicking the "Privacy" button at the bottom of the webpage.