

# Top 25 Hottest Articles

Economics, Econometrics and Finance > *Physica A: Statistical Mechanics and its Applications*

January to March 2010



**1. An evolutionary game theory model of binary opinion formation**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 8, April 2010, Pages 1745-1752

Ding, F.; Liu, Y.; Shen, B.; Si, X.M.

**2. A study of the spreading scheme for viral marketing based on a complex network model**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 4, February 2010, Pages 859-870

Yang, J.; Yao, C.; Ma, W.; Chen, G.

**3. Tachyonic @c-ray wideband of an ultra-relativistic electron plasma: Spectral fitting with Fermi power-law densities**

*Physica A: Statistical Mechanics and its Applications*, Volume 387, Issue 14, June 2008, Pages 3480-3494

Tomaschitz, R.

[Cited by Scopus \(6\)](#)

**4. Evolution of the social network of scientific collaborations**

*Physica A: Statistical Mechanics and its Applications*, Volume 311, Issue 3-4, August 2002, Pages 590-614

Barabasi, A.L.; Jeong, H.; Neda, Z.; Ravasz, E.; Schubert, A.; Vicsek, T.

[Cited by Scopus \(366\)](#)

**5. Thermodynamic variables of microquasars inferred from tachyonic spectral maps**

*Physica A: Statistical Mechanics and its Applications*, Volume 385, Issue 2, November 2007, Pages 558-572

Tomaschitz, R.

[Cited by Scopus \(7\)](#)

**6. Empirical analysis of online social networks in the age of Web 2.0**

*Physica A: Statistical Mechanics and its Applications*, Volume 387, Issue 2-3, January 2008, Pages 675-684

Fu, F.; Liu, L.; Wang, L.

[Cited by Scopus \(16\)](#)

**7. Analysis of market efficiency for the Shanghai stock market over time**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 8, April 2010, Pages 1635-1642

Wang, Y.; Liu, L.; Gu, R.; Cao, J.; Wang, H.

**8. Outbreaks source: A new mathematical approach to identify their possible location**

*Physica A: Statistical Mechanics and its Applications*, Volume 388, Issue 22, November 2009, Pages 4736-4762

Buscema, M.; Grossi, E.; Breda, M.; Jefferson, T.

**9. A social network model of investment behaviour in the stock market**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 6, March 2010, Pages 1223-1229

Bakker, L.; Hare, W.; Khosravi, H.; Ramadanovic, B.

**10. k-Nearest-Neighbor interaction induced self-organized pedestrian counter flow**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 10, May 2010, Pages 2101-2117

Ma, J.; Song, W.g.; Zhang, J.; Lo, S.m.; Liao, G.x.

[Cited by Scopus \(1\)](#)

**11. Long memory volatility in Chinese stock markets**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 7, April 2010, Pages 1425-1433

Kang, S.H.; Cheong, C.; Yoon, S.M.

**12. Generalized synchronization in complex dynamical networks via adaptive couplings**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 8, April 2010, Pages 1759-1770

Liu, H.; Chen, J.; Lu, J.a.; Cao, M.

**13. A dynamic mathematical test of international property securities bubbles and crashes**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 7, April 2010, Pages 1445-1454

Hui, E.C.M.; Zheng, X.; Wang, H.

**14. The 2006-2008 oil bubble: Evidence of speculation, and prediction**

*Physica A: Statistical Mechanics and its Applications*, Volume 388, Issue 8, April 2009, Pages 1571-1576

Sornette, D.; Woodard, R.; Zhou, W.X.

[Cited by Scopus \(3\)](#)

**15. Cooperation and charity in spatial public goods game under different strategy update rules**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 5, March 2010, Pages 1090-1098

Li, Y.; Jin, X.; Su, X.; Kong, F.; Peng, C.

**16. Market segmentation strategy in internet market**

*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 8, April 2010, Pages 1688-1698

Ren, Y.; Yang, D.; Diao, X.

- 17. Complexity-entropy causality plane: A useful approach to quantify the stock market inefficiency**  
*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 9, May 2010, Pages 1891-1901  
Zunino, L.; Zanin, M.; Tabak, B.M.; Perez, D.G.; Rosso, O.A.

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- 18. Unveiling the connectivity structure of financial networks via high-frequency analysis**  
*Physica A: Statistical Mechanics and its Applications*, Volume 388, Issue 18, September 2009, Pages 3866-3878  
Materassi, D.; Innocenti, G.

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- 19. Power law and multiscaling properties of the Chinese stock market**  
*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 9, May 2010, Pages 1883-1890  
Bai, M.Y.; Zhu, H.B.

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- 20. Jump point detection for real estate investment success**  
*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 5, March 2010, Pages 1055-1064  
Hui, E.C.M.; Yu, C.K.W.; Ip, W.C.

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- 21. A Bayesian Networks approach to Operational Risk**  
*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 8, April 2010, Pages 1721-1728  
Aquaro, V.; Bardoscia, M.; Bellotti, R.; Consiglio, A.; De Carlo, F.; Ferri, G.

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- 22. Statistical models for operational risk management**  
*Physica A: Statistical Mechanics and its Applications*, Volume 338, Issue 1-2, July 2004, Pages 166-172  
Cornalba, C.; Giudici, P.  
[Cited by Scopus \(15\)](#)

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- 23. Has the world economy reached its globalization limit?**  
*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 4, February 2010, Pages 797-806  
Miłkiewicz, J.; Ausloos, M.

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- 24. The Peter principle revisited: A computational study**  
*Physica A: Statistical Mechanics and its Applications*, Volume 389, Issue 3, February 2010, Pages 467-472  
Pluchino, A.; Rapisarda, A.; Garofalo, C.

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- 25. Simulation of pedestrian dynamics using a two-dimensional cellular automaton**  
*Physica A: Statistical Mechanics and its Applications*, Volume 295, Issue 3-4, June 2001, Pages 507-525  
Burstedde, C.; Klauck, K.; Schadschneider, A.; Zittartz, J.  
[Cited by Scopus \(186\)](#)