

**Professor Dr. Soumitra Kumar Mallick, Hony.Fellow EPS, KBE, QC, ForMem ReS, MemES, MemMathFin, Mem InStatIn, PhD(GSAS, New York University, 1993), B.Comm (Hons.) (St. Xavier's College, Calcutta University, 1983), C.A.(ICAI, 1985).**

Was a National Merit Scholar under School Final Examination and a A student for MPhil, PhD at New York University. Was a Development Fellow at New York University.

Foreign Members - European Physical Society, Econometric Society, Royal Economic Society, Member - Indian Statistical Institute & MathFinance.

### **Selected recent discoveries and inventions with publications**

**(I) Technologies Invented with Sandipan Mallick and Dr. Nick Hamburger using Natural Science Mathematical Laws of Genetic Econophysics developed below and Chemical Physical Analysis (Sandipan Mallick emphasis) and Mechanical Electrical Engineering (Dr. Nick Hamburger emphasis)**

1) *Soumitra Kumar Mallick & Sandipan Mallick*, Materials Nano-Science Chemical Physical Analysis Simulation experiment using String Theory, first results, [www.researchgate.net/profile/Soumitra\\_Mallick](http://www.researchgate.net/profile/Soumitra_Mallick) , January 12, 2016.

2) *Soumitra Kumar Mallick, Nick Hamburger & Sandipan Mallick*, Design of gated switches using HAAG Theorem bypass technology, Nick Hamburger website, January 10, 2016.

**(II) Refereed & Indexed journals for Laws of Genetic Econophysics towards development of “sustainable” electronic libraries, electronic stock markets, electronic banking networks and electronic commerce systems:**

(1) A Mathematical Statistical pricing model for emerging stock markets of India, *Journal of Asset Management*, with A.Sarkar, K.K.Roy, T.Duttachaudhuri & A.Chakraborty, 7(5), 2007, 335-346.( ISSN: 1470-8272 EISSN: 1479-179X).

(2) A set theoretic forecasting model for Investment in the Pharmaceutical Sector of Emerging Markets , *Mathematical Finance*, Archived, 2007.(ISSN : 1467-9965)

(3) Dynamics of Emerging India's banking sector assets : a simple model, with A.Sarkar, K.K.Roy, T.Duttachaudhuri & A.Chakraborty, *Journal of Asset Management*, 2010, 11(1), 62-70.( ISSN: 1470-8272 , EISSN:1479-179X).

- (4) Market Economics : some theoretical questions, Survey, 33(1-2), 1993, 41-52.(ISSN 0586-0008).
- (5) Outlining a control system for regional conference websites : The Econometric Society conferences case, Journal of Digital Asset Management, 3(6), 2008, 325-328.(ISSN: 1743-6540, EISSN: 1743-6559)
- (6) Subscription to digital libraries and corresponding journal impact: a value-based approach to demand for digital research data, with Thomas Krichel, Marco Novarese, Journal of Digital Asset Management, 2010, 6(6), 336-343. (ISSN: 1743-6540, EISSN: 1743-6559)
- (7) Pharmaceutical Market Investment, Incomplete Markets & Emerging Markets, unquantitative Finance, Archived, 2008.( ISSN 1469-7688) oai:nature.com:10.1057/jam.2010.17
- (8) [oai:nature.com:10.1057/jam.2010.17](http://oai:nature.com:10.1057/jam.2010.17); [doi:10.1057/jam.2010.17](https://doi.org/10.1057/jam.2010.17), Asset-based economy and management in emerging capital markets, Soumitra K Mallick, 2010-12-08, Editorial Invited, Palgrave Macmillan
- (9)[oai:nature.com:10.1057/palgrave.jam.2250041](http://oai:nature.com:10.1057/palgrave.jam.2250041)[doi:10.1057/palgrave.jam.2250041](https://doi.org/10.1057/palgrave.jam.2250041); A mathematical statistical pricing model for emerging stock markets, Soumitra K Mallick, Amitava Sarkar, Kalyan K Roy, Anjan Chakraborty, Tamal Duttachaudhuri, Palgrave Macmillan, 2006-12-20
- (10) [oai:nature.com:10.1057/dam.2010.38](http://oai:nature.com:10.1057/dam.2010.38); [doi:10.1057/dam.2010.38](https://doi.org/10.1057/dam.2010.38); Subscription to digital libraries and corresponding journal impact: A value-based approach to demand for digital research data, Soumitra K Mallick, Thomas Krichel, Marco Novarese, Palgrave Macmillan, 2010-12-13
- (11) A mathematical statistical pricing model for emerging stock markets The String Theory and Econophysics problem of Coal Mining, Journal of Physics A, J Phys A 101738, Archived, 23 August 2014.
- (12) The String Theory of Indian Stock Market nanostructure system, Journal of Physics A, J Phys A 101727, Archived, 22 August 2014.
- (13) Econophysics Haag's Theorem and Stock Market Nanotechnology system, European Journal of Physics, Archived, 2015
- (14) Medical Physics Field Theory experimentally established with Stationary Cardinal Utility Digital Asset Markets and Learning Field Quantum Physical Ensembles, with N. Hamburger, Sandipan Mallick, 8/16, [www.researchgate.net/profile/Soumitra\\_Mallick](http://www.researchgate.net/profile/Soumitra_Mallick), DOI:10.13140/RG.2.1.1169.6888.
- (15) Subscription to Digital Libraries and Corresponding Journal Impact: A Value-Based Approach to Demand for Digital Research Data—Confucian Integration of Curricula and “Market String” Digital Education Systems, Soumitra K. Mallick, Journal of Applied Mathematics and Physics Vol.6 No.10, October 15, 2018, DOI: 10.4236/jamp.2018.610170

**Millenium Mathematics Prizes** for solution of P Vs. NP problem with New Ecommerce Field with self energy and Artificial Intelligence with SO(32) String Matching Field Theory Higgs-Englert-Bosonic Mechanism (leading to the Development of Quantum Mathematics and Ramanujan-Hardy-Mallick- Hamburger- Mallick Functor Algebra Calculus (Tool Area)).  
(Published, *American Journal of Modern Physics*, A. Sorli eds., Archived, 2017, PGScienceGroup journal, S.K.Mallick, N. Hamburger & S.Mallick authors).

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