

## **Lampros K. Stergioulas**

### **PUBLICATIONS**

**SUMMARY.** The research output so far includes more than 60 refereed journal papers, 4 editorials, 7 books and 14 chapters in books, over 100 refereed conference papers, and more than 30 other articles.

#### **Book**

The book [B3] I co-authored in 2004 has been a key reference for the European Commission's policy makers and provided the foundation to Ireland's new e-Learning strategy. The Irish e-Learning Institute used the book as a research base:

- e-Learning Research & Development Roadmap for Ireland, Irish e-Learning Institute, [http://www.ncirl.ie/downloads/research\\_and\\_innovation/SFI\\_reportFINAL.pdf](http://www.ncirl.ie/downloads/research_and_innovation/SFI_reportFINAL.pdf).

Also this book is a frequently used resource for the eLearning Industry Group (eLIG). Ref:

Richard Straub, Director, Chairman , eLearning Solutions, IBM Europe, Middle-East and Africa, European eLearning Industry Group (eLIG)

[http://elearningeuropa.info/index.php?page=doc&doc\\_id=1098&doclng=6&PHPSESSID=5f28c2d32a6e2fc29a99a9e4bae693ce](http://elearningeuropa.info/index.php?page=doc&doc_id=1098&doclng=6&PHPSESSID=5f28c2d32a6e2fc29a99a9e4bae693ce)

### **JOURNAL PAPERS**

#### **Papers in refereed journals**

1. Abdul Momin Momin Kazi, Saad Ahmed Qazi, Nazia Ahsan, Sadori Khawaja, Fareeha Sameen, Muhammad Saqib, Muhammad Ayub Khan Mughal, Zabin Wajidali, Sikander Ali, Rao Moueed Ahmed, Hussain Kalimuddin, Yasir Rauf, Fatima Mahmood, Saad Zafar, Tufail Ahmad Abbasi, Khalil-Ur-Rahmen Khoubati, Munir A Abbasi, and Lampros K Stergioulas (2020); "Current Challenges of Digital Health Interventions in Pakistan: Mixed Methods Analysis", *J Med Internet Res* 2020;22(9):e21691
2. Momin KM, Qazi S and Stergioulas LK (2020), "A Randomized Controlled Trial (RCT) to evaluate the role of a AI based personalized smartphone application to improve childhood Immunization coverage and timelines among children", *JMIR Research Protocols*, Nov 2020.
3. Christopher J. Turner, John Oyekan, Lampros K. Stergioulas, and David Griffin (2020), "Utilizing Industry 4.0 on the Construction Site: Challenges and opportunities", *IEEE Transactions on Industrial Informatics*, 2020, pp. 230-252, Vol. 13.
4. Pappa D and Stergioulas LK (2019), "Harnessing Social Media data for Pharmacovigilance: A review of current state-of-the-art, challenges and future directions", *International Journal of Data Science and Analytics*, 2019, pp. 1-23, <https://doi.org/10.1007/s41060-019-00175-3>

5. S. Psycharis, D. Mastorodimos, K. Kalovrektis, P. Papazoglou, L.K. Stergioulas, and M. Abbasi (2019), Algorithm Visualization and its impact on Self-efficacy, Metacognition and Computational Thinking Concepts using the Computational Pedagogy model in STEM content epistemology, *Int. J. Phys. Chem. Education*, accepted, 2019.
6. Abbasi A and Stergioulas LK, "Data-driven Innovation and Digital Transformation in Urban Living: challenges and opportunities" - the paper identifies and discusses the current needs, demands, challenges, opportunities, as well as research gaps and future research directions in the area of data-driven transformation in Urban Living. For Special Issue in the journal "*Technological Forecasting and Social Change*", 2019 (Accepted).
7. Abbasi M, Vassilopoulou P, and Stergioulas LK (2017), Technology Roadmap for the Creative Industries, *Creative Industries Journal*, Volume 10, 2017 - Issue 1, pp. 40-58. (achieved more than 300 reads on ResearchGate)
8. Fakhimi M, Mustafee N, and Stergioulas LK (2016). An investigation into modeling and simulation approaches for sustainable operations management, *Simulation: Transactions of the Society for Modeling and Simulation International*, 92(10), 907-919.
9. Jahangirian M, Taylor SJE, Eatock J, Stergioulas LK, Taylor PM. (2014) 'Causal study of low stakeholder engagement in healthcare simulation projects'. *Journal of the Operational Research Society*.
10. Jahangirian M, Naseer A, Stergioulas L, Young T, Eldabi T, Brailsford S, Patel B, Harper P, Simulation in health-care: Lessons from other sectors, *Operational Research: An International Journal*, Springer-Verlag 12(1):45-55, 2012.
11. Hu J, Wang Z, Gao H, Stergioulas LK, Robust sliding mode control for discrete stochastic systems with mixed time delays, randomly occurring uncertainties, and randomly occurring nonlinearities, *IEEE Transactions on Industrial Electronics* 59(7):3008-3015 Jul 2012.
12. Hu J, Wang Z, Gao H, Stergioulas LK, Probability-guaranteed  $H^\infty$  finite-horizon filtering for a class of nonlinear time-varying systems with sensor saturations, *Systems & Control Letters* 61(4):477-484 Apr 2012.
13. Hu J, Wang Z, Gao H, Stergioulas LK, Robust  $H^\infty$  sliding mode control for discrete time-delay systems with stochastic nonlinearities, *Journal of the Franklin Institute* 349(4):1459-1479 2012.
14. J. Hu, Z. Wang, Y. Niu and L. K. Stergioulas, H-infinity sliding mode observer design for a class of nonlinear discrete time-delay systems: a delay-fractioning approach, *International Journal of Robust and Nonlinear Control*, (ISSN 1049-8923) Vol. 22, No. 16, Nov. 2012, pp. 1806–1826.

15. Jahangirian, M., Eldabi, T., Garg, L., Jun, GT., Naseer, A., Patel, B., Stergioulas, L.K., and Young, T., (2011), A rapid review method for extremely large corpora of literature: Applications to the domains of modelling, simulation, and management, *International Journal of Information Management* 31 (3) : 234-243.  
[Impact factor: 2.282 (ISI Thomson - Reuters)]
16. Jahangirian, M., Eldabi, T., Naseer, A., Stergioulas, L.K. and Young, T. (2010), Simulation in Manufacturing and Business: A Review, *European Journal of Operational Research*, Vol. 203, pp. 1-13. *This paper has ranked top of the top-25 hottest EJOR articles list, and within the top 10 of the 25 hottest articles of ScienceDirect in the general Computer Science field.*  
<http://top25.sciencedirect.com/subject/computer-science/7/journal/european-journal-of-operational-research/03772217/archive/24/> and <http://top25.sciencedirect.com/subject/computer-science/7/archive/24/>  
[Impact factor: 1.627 (JCR, Web of Science)]
17. Naseer, A. and Stergioulas, L.K. (2010), Web-Services Based Resource Discovery Model and Service Deployment on HealthGrids, *IEEE Transactions on Information Technology in Biomedicine*, Vol.13, No. 3, pp. 839-845.  
[Impact factor: 1.44 (ResearchGate)]
18. G. E. Boultradakis, G. K. Kalognomos, A. V. Karakasiliotis, P. V. Frangos, L. K. Stergioulas (2009). A Comparative Study of Bilinear Time–Frequency Transforms of ISAR Signals for Air Target Imaging, *Electronics and Electrical Engineering*, pp. 87-93.  
[Impact factor: 0.5 (ISI Thomson, ISI Inspec)]
19. C.A. Ioannou, P. Panagiotopoulos, and L.K. Stergioulas (2009), Roadmapping as a Collaborative Strategic Decision-Making Process: Shaping Social Dialogue Options for the European Banking Sector, *Engineering and Technology*, World Academy of Science, Vol. 54, pp. 770-776.
20. T. Serif, G. Ghinea, L.K. Stergioulas, S. Chen, T. Tiropanis and S. Tsekeridou (2008), Satellite-based delivery of educational content to geographically isolated communities: a service based approach, *ACM Personal and Ubiquitous Computing*, Vol. 13, No. 3, pp. 229-241.  
[Impact factor: 1.1 (ISI)]
21. S. Tsekeridou, T. Tiropanis, D. Rorris, C. Makropoulos, T. Serif, L. Stergioulas (2008), Satellite-enabled Educational Service Requirements Analysis based on User Feedback, *International Journal of Knowledge and Learning* (IJKL), ISSN (Online): 1741-1017 - ISSN (Print): 1741-1009, Vol. 4 (2&3), pp. 272-284.  
[Impact factor: 1.2 (JCR)]

22. H. Drenoyianni, L.K. Stergioulas, and V. Dagiene (2008), Taking a step towards a European educational framework for “digital literacy”: The establishment of a network of experts and educational key-stakeholders, *International Journal of Social and Humanistic Computing*, Vol. 1 (1), pp. 53-66.
23. Pappa D., Stergioulas L.K., and Telonis P. (2008), The role of knowledge management in the pharmaceutical enterprise, *International Journal of Technology Management (IJTM)*, Vol. 44, pp. 127-144.
24. [M. Mohd. Yusof](#), J. Kuljis, A. Papazafeiropoulou, and L. K. Stergioulas (2008), An evaluation framework for Health Information Systems: incorporating human, and organization and technology-fit factors (HOT-fit), *International Journal of Medical Informatics*, Vol. 77, No. 6, pp. 377-385.  
[Impact factor: 2.754 (ISI Web of Knowledge, Web of Science)] (achieved more than 4,000 reads on ResearchGate]
25. [M. Mohd. Yusof](#), A. Papazafeiropoulou, [R.J. Paul](#), and L. K. Stergioulas (2008), Investigating evaluation framework for Health Information Systems, *International Journal of Medical Informatics*, Vol. 77, No. 6, pp. 386-398.  
[Impact factor: 2.754 (ISI Web of Knowledge, Web of Science)]  
“Best of medical informatics” paper (IJMI paper) from the International Medical Informatics Association, selected for publication in the IMIA Yearbook of Medical Informatics 2009  
\*IJMI has acknowledged this paper as one of the most highly cited (in the top-7) in the field [see *Editorial, International Journal of Medical Informatics*, 79 (2010), pp. 733–735].
26. Pappa D. and Stergioulas L.K. (2008), Business-process oriented learning: the emerging role of corporate Information Systems, *International Journal of Business Science and Applied Management*, Vol. 3, No. 2, pp. 37-48.
27. V. Kamtsiou, A. Naeve, L.K. Stergioulas and T. Koskinen (2007), Roadmapping as a Knowledge Creation Process: The PROLEARN Roadmap, *Journal of Universal Knowledge Management*, Vol. 1, No. 3, pp.163-173.  
[Impact factor: 0.34 (CiteSeer, estimated)].
28. S. Qazi, A. Georgakis, L.K. Stergioulas and M. Shikh-Bahaei (2007), Interference Suppression in the Wigner Distribution using Fractional Fourier Transformation and Signal Synthesis, *IEEE Transactions on Signal Processing*, Vol. 55, No. 6, Pt. 2, pp. 3148-3149.  
[Impact factor: 1.8 (Web of Knowledge)]
29. S.A. Qazi and L.K. Stergioulas (2007), Fractional Fourier Transform based Blind Cross-Term Detection and signal synthesis in Wigner distributions, *Mediterranean Journal of Electronics and Communications*, Volume 3, No. 3, July 2007, ISSN: 1744-2400, pp. 93-99.

30. Pappa, D., Telonis, P., and Stergioulas (2006), L. K., Management of medicines information for patient safety, *Journal of Telemedicine and Telecare*, Volume 12, July 2006, pp. 34-36(3).  
[Impact factor: 1.094 (ISI Web of Knowledge)]
31. Qazi, S.A. and Stergioulas, L.K. (2006), Nested Wigner Distributions: Properties and Applications, *IEEE Transactions on Signal Processing*, 54 (12), pp. 4662-4674.  
[Impact factor: 1.8 (Web of Knowledge)]
32. Nunome, H., Lake, M., Georgakis, A. and Stergioulas, L.K., Impact Phase Kinematics of Instep Kicking in Soccer (2006), *Journal of Sports Sciences* 24 (1), pp. 11-22. \*  
[Impact factor: 1.7 (Web of Knowledge)]
33. A Naseer, A. and Stergioulas, L.K. (2006), Resource Discovery in Grids and Other Distributed Environments: States of the Art. *Multiagent and Grid Systems*, IOS Press, Vol. 2, No. 2, pp. 163-182.
34. Gandecha R R, Atkinson C, Papazafeiropoulou A, and L.K. Stergioulas (2005), Machines and Machinations, The Integrated Care Record Service in the UK National Health Service, *Journal of International Technology and Information Management*, Vol. 4, No. 4, pp. 1-12 (selected as Keynote paper for this issue).
35. V. Kamtsiou, A. Naeve, L.K. Stergioulas, T. Koskinen (2006), "Roadmapping as a Knowledge Creation Process", In K. Tochtermann, H. Maurer (Eds.): Proceedings of I-KNOW '06, 6th International Conference on Knowledge Management, Graz, Austria, September 6 - 8, 2006, Special Issue: *J.UCS (Journal of Universal Computer Science) Proceedings*, Springer, ISSN: 0948/695x, pp. 203 -212. (Best paper award).  
(Special Issue for the I-KNOW '06 Conference)  
[Impact factor: 0.36 (CiteSeer)]
36. S.A. Qazi, S. Ayoubian, and L.K. Stergioulas (2005), Time-frequency and time-frequency coherence correlates of change blindness - using Wigner distributions, *WSEAS Transactions on Mathematics and Computers in Biology and Biomedicine*, ISSN: 1109-9518, July 2005, Vol. 2, No. 3, pp. 290-294.
37. L.K. Stergioulas, P. Telonis, Y. Manolessos, T. Tiropanis, D. Pappa, M. Moatsos, G. Ghinea, K. Mamoukaris, V. Kamtsiou, and C. Makropoulos (2004), Broadband Access Satellite Enabled Education: The BASE<sup>2</sup> Project, *WSEAS Transactions on Information Science and Applications*, Vol. 1, No. 5, pp. 1394-1399.
38. L.K. Stergioulas and A. Vourdas (2004), "The Bargmann analytic representation in signal analysis", *Journal of Computational and Applied Mathematics*, Vol. 167, No. 1, pp. 183-192, 2004.

[Impact factor: 0.6 (Web of Knowledge)]

39. V. Kamtsiou, B. Simon, L.K. Stergioulas, and P. Telonis (2004), Design, Implementation and Evaluation of Brokerage Systems of Learning Resources, *WSEAS Transactions on Information Science and Applications*, Vol. 1, No. 5, pp. 1371-1376.
40. V. Kamtsiou, T. Koskinen, C. Makropoulos, Y. Manolios, L.K. Stergioulas, and P. Telonis (2004), Roadmapping methodology for technology-enhanced professional training, *WSEAS Transactions on Information Science and Applications*, Vol. 1, No. 5, pp. 1383-1388.
41. A. Georgakis, L. K. Stergioulas and G. Giakas (2003), "Fatigue Analysis of the Surface EMG Signal in Isometric Constant Force Contractions Using the Averaged Instantaneous Frequency," *IEEE Transactions on Biomedical Engineering*, vol. 50, no. 2, pp. 262-265.  
[Impact factor: 1.9 (Web of Knowledge)]
42. Georgakis A and Stergioulas LK. (2003), Matched time-frequency filter for ECG signal enhancement, *Studies in Health Technology and Informatics*, Vol. 95, pp. 21-26.
43. L.K. Stergioulas, H. Ahmed, and C.S. Xydeas (2002), Adaptive Web-based Engine for the Evaluation of eLearning Resources, *IEEE Educational Technology and Society*, Vol. 5, No. 3, pp. 138-149.  
[Impact factor: 0.3 (Web of Knowledge)]
44. A. Georgakis, L.K. Stergioulas and G.Giakas (2002), "Automatic algorithm for filtering kinematic signals with impacts in the Wigner representation", *Medical and Biological Engineering and Computing*, Vol. 40, No. 6, pp. 625-634. \*  
[Impact factor: 1.05 (Web of Knowledge)]
45. A. Georgakis, L.K. Stergioulas, and G.Giakas (2002), "Wigner filtering with smooth roll-off boundary for differentiation of noisy non-stationary signals", *Signal Processing*, Vol. 82, No. 10, pp. 1-5.  
[Impact factor: 0.7 (Web of Knowledge)]
46. L.K. Stergioulas, V.S. Vassiliadis, and A. Vourdas (2001), "Optimal bases of Gaussians in a Hilbert space: Applications to mathematical signal analysis", *Journal of Computational and Applied Mathematics*, vol. 133, No. 1-2, p. 601-609.  
[Impact factor: 0.6 (Web of Knowledge)]
47. L.K. Stergioulas, A. Vourdas, and G.R. Jones (2000), "Gabor representation of optical signals using a truncated von Neumann lattice and its practical implementation", *Optical Engineering*, vol. 39, No. 7, pp. 1965-1971.  
[Impact factor: 0.8 (Web of Knowledge)]

48. G.R. Jones, P.C. Russell, A. Vourdas, J.A. Cosgrave, L.K. Stergioulas, and R. Haber (2000), "The Gabor transform basis of chromatic monitoring", *Measurement Science and Technology*, vol. 11, No. 5, pp. 489-498.  
[Impact factor: 1.1 (Web of Knowledge)]
49. L.K. Stergioulas, D. Cebon and M.D. Macleod (2000), "Static weight estimation and system design for Multiple-Sensor Weigh-in-motion", *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, vol. 214, No. 8, pp.1019-1035.  
[Impact factor: 0.3 (Web of Knowledge)]
50. G. Giakas, L.K. Stergioulas, and A. Vourdas (2000), "Time-frequency analysis and filtering of non-stationary kinematic data using the Wigner distribution function: Accurate estimation of the second derivative", *Journal of Biomechanics*, vol. 33, No. 9, pp. 567-574.  
[Impact factor: 2.4 (Web of Knowledge)]
51. L.K. Stergioulas, V.S. Vassiliadis, and A. Vourdas (1999), "Construction of quantum states from an optimally truncated von Neumann lattice of coherent states", *Journal of Physics A: Mathematical and General*, vol. A32, No. 17, pp. 3169-3178.  
[Impact factor: 1.6 (Web of Knowledge)]
52. S. Chountasis, L.K. Stergioulas and A. Vourdas (1999), "Quantum filtering of noise in the Wigner function", *Journal of Modern Optics*, vol. 46, No. 15, pp. 2131-2141.  
[Impact factor: 1.0 (Web of Knowledge)]
53. L.K. Stergioulas and A. Vourdas (1998), "Robust quantum state engineering using coherent states on a truncated von Neumann lattice", *Journal of Modern Optics*, vol. 45, No. 6, pp. 1155-1161.  
[Impact factor: 1.0 (Web of Knowledge)]
54. P.C. Russell, D. Tomtsis, J.A. Cosgrave, L.K. Stergioulas, A. Vourdas, and G.R. Jones (1998), "Extraction of information from acoustic vibration signals using Gabor devices", *Measurement Science and Technology*, vol. 9, No. 8, pp. 1282-1290.  
[Impact factor: 1.1 (Web of Knowledge)]

#### **Editorials (in International Journals)**

55. C Turner, L Stergioulas, K Salonitis and C Emmanouilidis, Editorial: Industrial Automation: Realising the Circular Economy through Autonomous Production, in Special Issue of *Sustainability* (impact factor >2).

56. H. Drenoyianni and L.K. Stergioulas, (2011), Book Editorial, In L.K. Stergioulas and H. Drenoyianni, Eds. (2011), *Pursuing Digital Literacy in the School, New Literacies series*, Peter Lang Publishing Group, New York.
57. T. Thayaparan, P. Fragos, L. Stankovic, L.K. Stergioulas and A.D. Lazarov, (2009) Editorial: Signal Processing Techniques for ISAR and Feature Extraction, *IET Signal Processing*, Vol. 2 (3), pp. 189-191.
58. G. Ghinea, L.K. Stergioulas, S. Chen, A. Tyropanis, and S. Tsekeridou (2008), Editorial, Special Issue on "Ubiquitous e-Learning Solutions over Heterogeneous Networks", *ACM Personal and Ubiquitous Computing*, Vol. 13, No. 3, pp. 179-180.  
[Impact factor: 1.1 (ISI)]

#### **Abstracts (in International Journals - Supplements)**

59. Nunome, H., Lake, M., and Stergioulas, L.K. (2007), An alternative feature of impact phase kinematics of instep kicking in football, *Journal of Sports Science and Medicine* (2007) Suppl. 10 , pp. 26 – 29 (p. 27).  
[Impact factor: 0.375 (Thomson Scientific)]

#### **BOOKS**

##### **Co-authored**

- B1. Stergioulas LK *et. al.*, "INNOVATION CAPACITY AND THE CITY, The enabling role of design", [co-author], Springer, Oct 2018.
- B2. Clarkson, J., Morris, Z.S., Jun, G.T., Eldabi, T., Jahangiran, M., Naseer, A., Stergioulas, L., Taylor, P., Xue, M., Young, T., Berger, S., Bolt, T., Brailsford, S., Connell, C., Klein, J., Patel, B., Barton, M., Garg, L., McClean, S. and Harper, P. (2008), *The RIGHT Workbook: Modelling and Simulation Techniques for Supporting Healthcare Decision Making: A Selection Framework*, EDC/ Cambridge University Press, published in August 2008.

B3. Koskinen, T., Stergioulas, L.K. and Denoual Y. (2004), *European Roadmap for Professional Training*, Barcelona, November 2004, ISBN: 84-9788-223-7, 119 pages.

### Edited

B4. H. Drenoyianni and L.K. Stergioulas, Eds., (2008), *Proceedings of the International Conference on Digital Literacy*, published in October 2008 in Belgium, ISBN: 2-930429-16-X, 40 pages.

B5. L.K. Stergioulas and H. Drenoyianni, Eds., (2011), *Pursuing Digital Literacy in Compulsory Education*, New Literacies series, Peter Lang Publishing Group, New York, September 2011, ISBN-10: 1433106191, 288 pages.

### Online Proceedings

B6. Kamtsiou, V., Stergioulas, L.K., and Van Asschen F. Eds. (2008), *Proceedings of the 3rd International Workshop on Digital Literacy*, Edited Proceedings, Vol-310, CEUR-WS, ISSN 1613-0073, 52 pages. *Digital Literacy 2007*, Sissi, Lassithi - Crete Greece, 17 September, 2007 CEUR-WS.org 2008 (online publication). Also published in a Special Issue of *Technologie Didattiche*, (Italian academic journal), Dossier Digital Literacy, Vol. TD-43, Issue No. 1 (2008), published by ITD, 34 pages.

B7. L.K. Stergioulas, H. Drenoyianni, K. Maillet, A. Cartelli, and V. Dagiene, Eds., (2009), *Proceedings of the Special Sessions of the International Conference on Digital Literacy*, published by Brunel University and e-Start Network (online publication), <http://e-start.brunel.ac.uk/conference/Proceedings.aspx>, ISBN: 978-1-902316-78-9, London 2010.

### CHAPTERS IN BOOKS (All Refereed)

BC1. Khoubati K., Abbasi M., and Stergioulas L.K. (2018), "Integration of Public Sector Healthcare Information Systems with Private Sector Healthcare Providers in Pakistan: Challenges, Opportunities and Solutions", in Eds. Dwivedi, Y.K., Rana, N.P., Slade, E.L., Shareef, M.A., Clement, M., Simintiras, A., and Lal, B., *Emerging Markets from a Multidisciplinary Perspective: Challenges, Opportunities and Research Agenda*, published in January 2018, DOI: <https://doi.org/10.1007/978-3-319-75013-2> . <https://www.springer.com/gb/book/9783319750125> , pp. 233-240.

BC2. Stergioulas L.K., *et al.* [co-authored] "London City snapshot and innovation cases" Book Chapter (outlining more than 50 innovation cases across London) in the *DESIGNSCAPES book "City snapshots"*, published by DESIGNSCAPES, 2018.

BC3. Harshana LIYANAGE, John WILLIAMS, Rachel BYFORD, Lampros K STERGIOLAS, and Simon de LUSIGNAN (2018), Ontologies in big health data analytics: application to routine clinical data, in John Mantas, Zdenko Sonicki, Mihaela Crişan-Vida, Kristina Fišter, Maria Hägglund, Aikaterini Kolokathi, Mira Hercigonja-Szekeres (Eds.), *Decision Support Systems and Education*, ISBN978-1-61499-920-1 (print) | 978-1-61499-921-8 (online) pp. 65-69, IOS Press, London.

BC4. Naseer A. and Stergioulas, L.K., HealthGrids in Health Informatics: A Taxonomy, in Dr. Khalil Khoubati, Dr. Yogesh Kumar Dwivedi, Dr. Aradhana Srivastava, and Dr. Banita Lal. (eds), *Handbook of Research on Advances in Health Informatics and Electronic Healthcare Applications: Global Adoption and Impact of Information Communication Technologies*, 2012, 23 pages.

BC5. Naseer A. and Stergioulas, L.K., (2012), Types of Resources and their Discovery in HealthGrids, *Handbook of Research on Computational Grid Technologies for Life Sciences*, Biomedicine and Healthcare, 2012.

BC6. Naseer A. and Stergioulas, L.K. (15 Nov 2007), Combining Grid and Web Services, In P. Periorellis (Ed.), *Securing Web Services: Practical Usage of Standards and Specifications*, IGI Global Information Science Reference, ISBN-13: 978-1-59904-639-6, ISBN-10: 1599046393, pp. 298-317.

BC7. Naseer A. and Stergioulas, L.K. (2005), Resource Discovery in Computational Grids: State-of-the-art and Current Challenges, In *Self-Organization and Autonomic Informatics (I)*, IOS Press, Amsterdam, Netherlands, 2005, pp. 237-245.

BC8. V. Kamtsiou, T. Koskinen, A. Naeve, D. Pappa, and L. Stergioulas, A Glimpse at the Future of Technology Enhanced-Professional Learning: Trends, scenarios and visions, In A. Boonen and W. Van Petegem (Eds.), *European Networking and Learning for the Future*, Published by Garant, Antwerp, Belgium, © 2007 EuroPACE ivzw, launched in November 2007 (16 pages).

BC9. Serif, T., Stergioulas, L., Ghinea, G., Moatsos, M., Makropoulos, C., Tsekeridou, S. and Tiropanis T. (2006) Satellite-enabled Interactive Education: Scenarios and Systems Architectures. In Eds. W. Nejdl and K. Tochtermann, *Innovative Approaches for Learning and Knowledge Sharing*, LNCS4227, Springer-Verlag, Berlin-Heidelberg, 2006, pp. 411-423.

[Also published online on the SpringerLink website:

<http://www.springerlink.com/content/87144662k068v6g7>]

BC10. Mohd Yusof, M., Paul, R.J., and Stergioulas, L.K. (2005), Health information systems evaluation: A focus on clinical decision support system, *Connecting Medical Informatics and Bio-Informatics*, Studies in Health Technology and Informatics, Volume 116 / 2005, ISBN: 978-1-58603-549-5, pp. 855-860.

- BC11. S. Fragos, T. Mitchell, S. Chen and L.K. Stergioulas (2004), Data-driven modelling of learner's cognitive style in educational hypermedia. In K. Morgan, C.A. Brebbia, J. Sanchez, and A. Voiskounsky (eds.), *Human Perspectives in the Internet Society*, WIT Press, ISBN 1-85312-726-4, 2004, pp. 501-510.  
[Also published online at [www.witpress.com](http://www.witpress.com), ISSN: 1744-7151]
- BC12. A. Georgakis and L.K. Stergioulas (2003), "Matched time-frequency filter for ECG signal enhancement", in R. Baud et al. Eds. *The New Navigators: from Professionals to Patients, Technology and Informatics Series*, Medical Informatics, IOS Press, 2003, pp. 21-26.
- BC13. S. Fragos, L.K. Stergioulas, and C.S. Xydeas (2003), "Classification of decision-behaviour patterns in multivariate computer log data using Independent Component Analysis", *Knowledge-Based Intelligent Information & Engineering Systems, Part 2*, Springer-Verlag GmbH, LNCS2774, 2003, ISBN: 3-540-40804-5, pp. 73-79.
- BC14. L.K. Stergioulas, A. Vourdas, and G.R. Jones (1996), "Noise analysis in optical fibre sensing: A study using the maximum entropy method". In J. Skilling and S. Sibisi (eds.), *Maximum Entropy and Bayesian Methods*, Fundamental Theories of Physics, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1996, ISBN 0-7923-3452-3, pp. 109-116.

## SELECTED CONFERENCE PAPERS

### Refereed conference papers

1. Nikolaou V, Fakhimi M, and Stergioulas LK (2019), Identifying Chronic Obstructive Pulmonary Disease (COPD) Phenotypes to Predict Treatment Response, accepted in Proceedings of the *International Federation of Classification Societies Conference (IFCS 2019)* to be published in *Studies in Classification, Data Analysis, and Knowledge Organization* (Edited by Theodore Chadjiapadelis, Berthold Lausen, Angelos Markos, Tae Rim Lee, Angela Montanari, Rebecca Nugent), Springer, 2019.
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