

Publications

Professor Johnson I Agbinya, PhD (La Trobe)

<https://orcid.org/0009-0008-4569-7856>

Head of School of IT & Engineering,

Melbourne Institute of Technology

- ✓ Top 2% Scientist worldwide (Elsevier, October 2023) ranking in Artificial Intelligence & Image Processing, Remote Sensing, *Networking and Telecommunications*, and *Information & Communication Technologies*;
(<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6/files/d2537947-3d38-42e5-9c34-15c3dfe04f59>)
- ✓ AD Scientific Index 2024; Oceania Scientists i10 Productivity Rankings 2024;
<https://www.adscientificindex.com/productivity-rankings/?con=Oceania&q=agbinya>

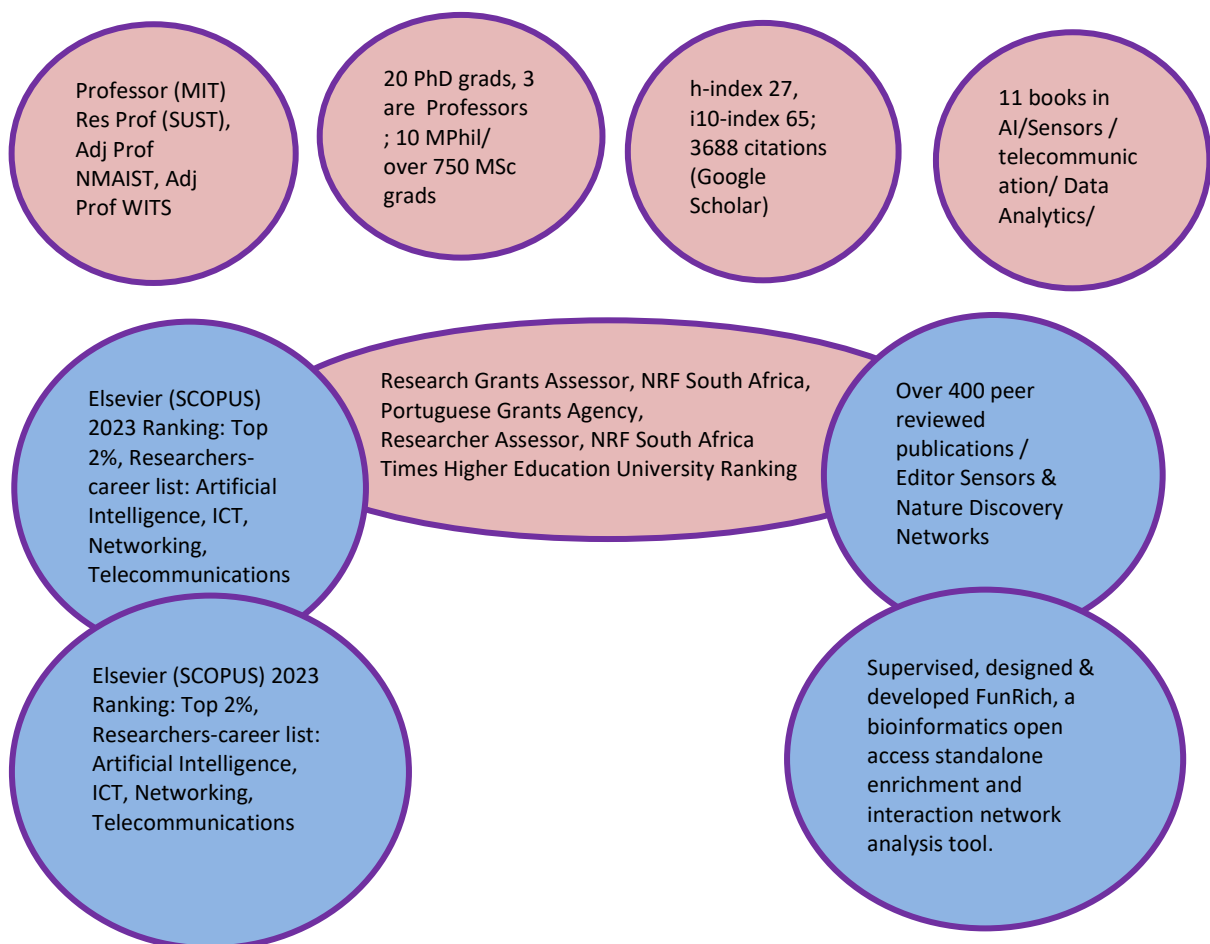


Table of Contents

1	Citations Counts in Google Scholar and Profile.....	3
	Cited by VIEW ALL.....	3
2	Publications.....	3
2.1	Editorship.....	3
2.2	Text Books.....	4
2.3	Articles in Accredited Journals	4
2.4	Papers in peer-reviewed conference proceedings	10
2.5	Classified Research Outputs @ CSIRO.....	24
2.6	Keynote Addresses, Tutorials and short courses/training programs.....	27
2.7	Facilitation of conferences workshops/seminars.....	27
2.8	Technologies Developed and in Commercial Application	27

1 Citations Counts in Google Scholar and Profile

Google Scholar follows and maintains research profiles of world class researchers daily in a graphical form as shown below for Professor Johnson I Agbinya.

Cited by	VIEW ALL	
	All	Since 2020
<u>Citations</u>	3926	1616
<u>h-index</u>	27	14
<u>i10-index</u>	65	22

2 Publications

2.1 Editorship

Recent International Journal Editorial	
2025	Johnson I Agbinya, Guest Editor, LiDAR Technology for Autonomous Navigation and Mapping, Remote Sensing, MDPI, 2025
2019	Johnson I Agbinya, Guest Editor, Remote Sensing, Special Issue, "The Internet of Things (IoT) in Remote Sensing: Opportunities and Challenges", https://www.mdpi.com/journal/remotesensing/special_issues/iot_rs
2019	Ammar Alazab, Johnson Agbinya and Mamoun Alazab, Special Issue in - Security and Privacy in Information and Communication Systems https://www.mdpi.com/journal/futureinternet/special_issues/Communication_Systems
2019+	Johnson I Agbinya, Editor-in-Chief, Software Networking, River Publishers, Denmark; https://www.riverpublishers.com/journal.php?j=JSN/2018/1
Technical Program Committee Chair and Proceedings: Recent International Conferences	
2023	Johnson I Agbinya, Proc. International conference on Science, Computing and Telecommunications, September 12-13, Lusaka Zambia; https://www.icict.org.zm/
2019	Johnson I Agbinya, Proc. International conference on Science, Computing and Telecommunications, March 10-12, Swaziland (Sponsored by Springer); http://www.ib2com.org/pact2019/
2018	Johnson I Agbinya, Proc. International conference on Cyber Security and Communications Systems, December 10-12, Melbourne, Australia (Sponsored by Springer); www.iccscs.org
2017	Johnson I Agbinya, Proc. International conference on Science, Computing and Telecommunications, March 7-10, 2017, Nairobi, Kenya; http://www.ib2com.org/pact2017/

2.2 Text Books

1. Agbinya, JI, Applied Big Data Analytics, River Publishers Denmark, River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, due for publication, ISBN: 9788770220965, e-ISBN: 9788770220958, May 2020
2. Agbinya, JI., Wireless Power Transfer (2nd Edition), (River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, 2015); ISBN: (http://www.riverpublishers.com/); 2nd Edition; ISBN: 978-87-93237-67-4 (Hardback); 978-87-93237-68-1 (ebook), 746 pages, December 2015
3. Agbinya, JI., Wireless Power Transfer", (River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, July 2012); ISBN: 978-87-92329-23-3 (http://www.riverpublishers.com/); 1st Edition
4. Agbinya JI, "Principles of Inductive Near Field Communications for Internet of Things", ISBN: 978-87-92329-52-3; (River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, November. 2011)
5. Agbinya JI, Whittington J, Custovic E and Lal S.; "Bio-Informatics Systems, Processing and Applications", (River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, ISBN: 9788793102187 Publication date October 2013)
6. Agbinya JI, Mari Carmen Agueyo-Torres, Klempous R and Nikodem, J.; "4G Wireless Communication Networks: Design, Planning and Applications", (River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, ISBN: 978-87-92982-71-1; Publication date July 2013)
7. Agbinya JI, Biermann E, Lal S and Hamam Y., Biomedical and Environmental Sensing, (River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, ISBN: 978-87-92329-28-8; November 2009
8. Agbinya, JI, "Planning and Optimisation of 3G and 4G Wireless Networks", River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark), ISBN #: 978-87-92329-24-0 December 2009
9. Agbinya, JI, IP Communications and Services for NGN, (ISBN: 978-1-4200-7090-3; Auerbach Publications, Taylor & Francis Group, USA, CRC Press; USA, January, 2010)
10. Agbinya, JI, Sevimli, O., Lal, S., Reisenfeld, S; Selvadurai, S; Li, Y and Aljumaily, A; "Emerging Broadband Communications and Applications: Next Generation Broadband Communications"; ISBN: 978-87-92329-00-4; ISBN E-Book: 978-87-92329-01-1 (River Publishers Denmark, September, 2008)
11. Agbinya, J.I., Oyejobi, F. and Etukudo, B., "Internet Technology In a Nutshell" (Macquarie Lighthouse Press, Marsfield, Australia; August 1998, ISBN: 0-646-35607-0)

2.3 Articles in Accredited Journals

12. Sana Abdelaziz Bkheet, Johnson I. Agbinya, Gamal Saad Mohamed Khamis, "Advanced Deep Learning Approach for Smart Home Appliance Identification Using Recurrent Neural Networks with LSTM", IoT **2024**, 5, 835–851. <https://doi.org/10.3390/iot5040038>, 2024.
13. Bhagwan Das, Johnson I Agbinya; "Adaptive Composite Bandwidth and Automatic Gain Control Receiver for 6G Wireless Optical Communication", Discover Applied Sciences, Springer Nature, <https://doi.org/10.1007/s42452-024-05882-6> , 2024.

14. Sana Abdelaziz Bkheet, Johnson I Agbinya, "IoT Objects Identification Model Using Deep-Neural Network (DNN)", *Journal of Basic and Applied Sciences*, 17(4): 1-18. DOI: 10.22587/ajbas.2023.17.4.1.
15. Nahla Ibrahim and Johnson Agbinya, "Design of a Lightweight Cryptographic Scheme for Resource-Constrained Internet of Things Devices", *Applied Sciences*, MDPI, 2023
16. Cosmas Magashi, Johnson I Agbinya, Anael Sam and Jimmy Mbelwa, "Indicative factors for SACCOS Failure in Tanzania", *Engineering Technology and Applied Science Research*, 2022; <https://etasr.com>.
17. Machoke Mwita, Johnson Agbinya, Jimmy Mbelwa, and Anael Elikana Sam, "Performance comparison of ensemble learning with supervised algorithms in classifying multi-label network traffic flow", *Engineering, Technology & Applied Science Research*, Vol XX, No. YY, pp. ZZ 2022
18. Nahla Fatahelrahman Ibrahim and Johnson I Agbinya, "A Review of Lightweight Cryptographic Schemes and Fundamental Cryptographic Characteristics of Boolean Functions", accepted December 3, 2021 in *Advances in Internet of Things*, Scientific Research Publishing Inc., 2022
19. Hoang Nguyen and Johnson I Agbinya, "Inductive Multi-Frequency Diversity Using Split Resonant Frequency", *Progress In Electromagnetics Research M*, Vol. 100, pp. 81–91, 2021
20. [Mohammad Kamrul Hasan](#), Taher M. Ghazal, [Ali Alkhaifah](#), Khairul Azmi Abu Bakar, [Alireza Omidvar](#), [Nazmus S Nafi](#) and [Johnson I. Agbinya](#), "Fischer Linear Discrimination and Quadratic Discrimination Analysis based Data Mining Technique for Internet of Things Framework for Healthcare", *Frontiers in Public Health* | doi: 10.3389/fpubh.2021.737149, 2021.
21. Sana Abdel Aziz, Johnson I Agbinya, "A Review of Identity methods of Internet of Things (IoT)", *Advances in Internet of Things*, scirp.org, 2021.
22. Mohamed A. Alkelsh, Walid K A Hasan, Emhamed A. Adaba, Albahloul M. Abood, Johnson Agbinya, "Design & Simulation of Voice QoS Performance in Data Network Congestion for M/D/1 Queuing Model", *Albahit journal of applied sciences* ISSN 2708-244X, e-ISSN 2708-8936, Vol. 2, Issue 1, 2021, pp. 37-45
23. Nagi F. Ali Mohamed and Johnson I Agbinya, "Stable Power Delivery Efficiency in Misaligned Wireless Power Transfer Systems Using Trifid Antennas", *Journal of Mobile Multimedia*, Vol. 16, Issue 3, 2020, pp. 335 - 350
24. Atika Hussein and Johnson I Agbinya, "Water Flow forecasting using Artificial Intelligence techniques and Markov chain model: The Blue Nile Scenario", *Australian Journal of Basic and Applied Sciences*, Vol. 13, No.12, 2019). Issue No .12, online at http://www.ajbasweb.com/old/ajbas_December_2019.html, pp. 10-18.
25. Atika Hussein and Johnson I Agbinya, "A Survey on Data mining Techniques for Water Flow Forecasting", *Australian Journal of Basic and Applied Sciences*, Vol. 14, 2020. Issue No. 3, pp. 1-12
26. Iatimad Satti Abdelkarim and Johnson I Agbinya, "A Review of Parallel Support Vector Machines (PSVMs) for Big Data classification", Vol. 13, No.12, 2019). Issue No .12, online on at http://www.ajbasweb.com/old/ajbas_December_2019.html, pp. 61-71.
27. Iatimad Satti Abdelkarim and Johnson I Agbinya , "Parallel SVM Based Classification Technique on big data: HPC center in Sudan", *Australian Journal of Basic and Applied Sciences*, Vol. 14, 2020. Issue No. 4, pp. 1-14
28. Nahina Islam, Ammar Alazab, Johnson Agbinya, "Energy Efficient and Delay Aware 5G Multi-tier Network", *Remote Sensing, Special Issue, The Internet of Things (IoT) in Remote Sensing: Opportunities and Challenges*, April 2019, Impact Factor 4.118; https://www.mdpi.com/journal/remotesensing/special_issues/iot_rs
https://susy.mdpi.com/user/manuscripts/review_info/fc654568f717a5432250772c52eeddf0

29. Johnson I Agbinya and Hoang Nguyen, "Principles and Applications of Frequency Splitting in Inductive Communication and Wireless Power Transfer Systems", *Wireless Personal Communications, Impact Factor 1.2*, July 2019, Volume 107, [Issue 2](#), pp 987–1017 .
30. Johnson I Agbinya, "Recursive Frequency Allocation Scheme in Wireless Power Transfer and Magnetic Induction Communication Systems", *Wireless Personal Communications, Impact Factor 1.2*, Vol. 38, Issue 1, January 2018, pp. 213-223.
31. Dennis L. Owuor, Okuthe P. Kogeda, Johnson I. Agbinya, "Three Tier Indoor Localization System for Digital Forensics", *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering* , Vol:11, No:6, 2017, pp. 602 - 610
32. Johevajile K. Mazima, Johnson I Agbinya, Shubi F. Kaijage and Emmanuel Manasseh. "An Overview of Electromagnetic Field Interaction with Grain Crops", *International Journal of Computer Science and Information Security*, Thompson Reuters, June 2017
33. Hoang Nguyen and Johnson I Agbinya, "Inductive multi-frequency diversity using resonant split frequency", *Progress in Electromagnetics Research M*, Vol. 100, January 2021, pp. 69-79.
34. Dennis L. Owuor, Okuthe P. Kogeda, Johnson I. Agbinya , "[Three Tier Indoor Localization System for Digital Forensics](#)", *World Academy of Science, Engineering and Technology, International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering* Vol:11, No:6, 2017
35. Hoang Nguyen and Johnson I Agbinya, "Splitting Frequency Diversity in Wireless Power Transmission", *IEEE Transactions on Power Electronics, Impact Factor 6.814*, Vol. 30, Issue 11, Nov. 2015, pp.6088 - 6096
36. Hoa Doan Thanh and Johnson I Agbinya, "OFDM Scheme for Data Transmission over Inductive Channels", *Wireless Personal Communications, Impact Factor 1.2*, Vol. 88, No. 4, June 2016, pp. 923 - 942
37. Hoang Nguyen, Johnson I Agbinya and John Devlin, "FPGA-Based Implementation of Multiple Modes in Near Field Inductive Communication Using Frequency Splitting and MIMO Configuration", *IEEE Transactions on Circuits and Systems I (A, IF: 2.823)*; January, 2015, pp. 302 - 310.
38. Suresh Mathivanan, Mohashin Pathan and Johnson I Agbinya et al, "FunRich: An open access standalone functional enrichment and interaction network analysis tool", *Proteomics, Wiley – VCH*, Impact factor 4.041, Vol. 15, Issue 15, 2015.
39. Michael Oche, Rafidaj MD Noor and Johnson I Agbinya, "Network Centric QoS Evaluation of IPTV Transmission Quality over VANETs", *Computer Communications, Elsevier, Impact Factor 2.613*, December, 2014
40. Johnson I Agbinya and Nagi F Ali Mohammed, Design and Study of Multi-Dimensional Wireless Power Transfer Transmission Systems and Architectures", *International Journal of Electrical Power and Energy Systems*", (2014), pp. 1047 -1056 (Impact Factor: 3.61), July 2014;
<http://dx.doi.org/10.1016/j.ijepes.2014.06.071>
41. Johnson I. Agbinya, "A magneto-inductive link budget for wireless power transfer and inductive communication systems," *Progress In Electromagnetic Research C*, Impact Factor 5.298, Vol. 37, 15-28, 2013;
<http://www.jpier.org/pierc/pier.php?paper=12120511>
42. Johnson I. Agbinya, "Investigation of near field inductive communication system models, channels and experiments," *Progress In Electromagnetics Research B*, Impact Factor 5.298, Vol. 49, 129-153, 2013.
<http://www.jpier.org/pierb/pier.php?paper=12120512>
43. Johnson I Agbinya, Editor Vol. 1, Issue 1; *Journal of Machine to Machine Communications*; ISSN: 2246-137X (Print Version), ISSN: 2246-5235 (Online Version); January 2014;
<http://www.riverpublishers.com/journal.php?j=JMMC/1/1>

44. Khalid Aboura, Johnson I Agbinya and Eskandarian, "Weibull Decision Support Systems in Maintenance", *Organizacija*. Volume 47, Issue 2, pp. 81–89, ISSN (Online) 1581-1832, DOI: 10.2478/orga-2014-0008, May 2014
45. Hoa Doan Thanh and Johnson I Agbinya, "Investigation and Study of Mode Splitting in near field inductive communication systems", *International Journal of Electronics and Telecommunications*, Vol. 59, issue 2, pp. 185-194, ISSN (Print) 0867-6747, DOI: 10.2478/eletel-2013-0022, July 2013
46. Hoang Nguyen, Johnson I. Agbinya, and John Devlin, "Channel characterization and link budget of MIMO configuration in Near Field Magnetic Communication", *INTL JOURNAL OF ELECTRONICS AND TELECOMMUNICATIONS*, 2013, VOL. 59, NO. 3, pp. 257–264; DOI: 10.2478/eletel-2013-0030.
47. Mohashin Uddin Pathan and Agbinya JI, "Automated Estimation of Multiple Diffraction Losses for Microwave Link Design", *African Journal of ICT*, Vol 7, No. 2, 2013, pp. 27-36
48. J.I Agbinya, Guest Editor: Special issue on: Emerging Green Energy Techniques; ", *Journal of Green Engineering*, ISSN 1904-4720, Vol.3, No. 3, April 2013
49. Khalid Aboura and JI Agbinya, "Adaptive Maintenance Optimization Using Initial Reliability Estimates", *Journal of Green Engineering*, ISSN 1904-4720, Vol.3, No. 3, April 2013, pp. 325 - 345
50. Mohammad Al-Hattab, Maen Takturi and Johnson Agbinya, "Mobility Prediction Using Pattern Matching", *International Journal of Electrical and Computer Sciences (IJECS-IJENS)*, Vol. 12, No. 3, June 2012, pp. 18 – 24.
51. Johnson I Agbinya, "Performance of Magnetic Induction Communication Systems Using Induction Factors", in *Wireless Personal Communications*, 2012, pp. 945 – 968.
52. Johnson I Agbinya and Mehrnoush Masihpour, "Power Equations and Capacity Performance of Magnetic Induction Communication Systems", in *Wireless Personal Communications Journal* © Springer (www.springerlink.com), Vol. 64, Issue 4, 2012, pp. 831 - 843
53. Johnson I Agbinya, "A New framework for wide area networking of Inductive Internet of Things", *Electronics Letters*, Vol 47, No 21, pp 1199-1201, 13th October 2011
54. Tran, Dai T; Agbinya, JI. and Al-Jumaily Adel, "Per node deployment based detection of controlled link establishment attack in distributed sensor networks" *International Journal of Sensor Networks (IJSNET)* Inderscience (<http://cs.ua.edu/~yangxiao/IJSNet.html>), vol. 9, No. 3-4, pp. 192-208, 2011
55. Okuthe P. Kogeda and Johnson I Agbinya, "Cellular Networks Faults and Services Dependency Modeling", *Intern. Mag. On Advances in Computer Science and Telecommunications*, ISSN: 1857-7202; IMACST: VOL. 1 No. 1, Dec. 2010, pp. 15 – 22.(http://imacst.com/web_documents/01_01_2_kogeda.pdf).
56. Sara Lal, Axel Besinger, Tamara Szytinda, Johnson I Agbinya and Carmen Duthoit; "Optical flow based analyses to detect emotion from human facial image data", in *Expert Systems with Applications*; June 2010
57. Mohammad Al-Hattab and Johnson I Agbinya, "Self Trajectory Estimation for Wireless Mobile Networks", *International Journal of Electronics and Telecommunications*, <http://jet.zpt.tele.pw.edu.pl/node/4>, Warsaw University of Technology, Poland, 2010, pp. 451 - 456
58. Agbinya JI, Gina Navarrette and Al-Jaafreh H., "A Study and Review of Self Managed Vehicular Networks", *International Journal of Electronics and Telecommunications*, <http://jet.zpt.tele.pw.edu.pl/node/4>, Warsaw University of Technology, Poland, 2010, pp. 433 - 444
59. Johnson I. Agbinya, Nithya Selvaraj, Arthur Ollett, Stephane Ibos, Yasmin Ooi-Sanchez, Mark Brennan, and Zenon Chaczko, "Characteristics of the Magnetic Bubble 'Cone of Silence' in Near Field Magnetic Induction Communications", *Journal of Battlefield Technology*, Argos Press, Vol. 13, No. 1, Mar. 2010, pp. 21 – 25.

60. Chaczko Z, Agbinya JI and Aboura K., "Software Engineering for Mapping Radio Frequency Pollution", in International Journal of Electronics and Telecommunications, <http://jet.zpt.tele.pw.edu.pl/node/4>, Warsaw University of Technology, Poland, 2010
61. Johnson I. Agbinya, Vivian Lee, Zenon Chaczko and Khalid Aboura, "Recognition of Radio Signal Pollution Levels and Signatures", in International Journal of Electronics and Telecommunications, 2010
62. Tran, DT and Agbinya, JI., A Framework for Confronting Key-swapping Collusion Attack on Random Pairwise Key Pre-distribution Schemes for Wireless Sensor Networks"; (Journal, Wiley Interscience) Security and Communication Networks; 2009
63. Umuhoza D, Agbinya JI; Vahed A & Moodley D, Trust for Geospatial Web Services", WSEAS Transactions on Communications; 2009
64. Agbinya, JI and Phiri, J. "Establishing the Significance of Credential Attributes in Digital Identity Management Systems" in Lecture Notes on Computer Science (LNCS), vol. 4773, pp, 2007
65. Chiang, F., Agbinya,JI and Braun, R. (2007), "Self-adaptability and Vulnerability Assessment of Secure Autonomic Communication Networks", Lecture Notes on Computer Science (LNCS), vol. 4773, pp. 112-122, 2007
66. Chiang, F., Braun R. and Agbinya, JI., "Self Configuration of Network Services with Nature-Inspired Learning and Adaptation", in issue on Autonomic Pervasive and Context-aware Systems of the Journal of Networks and Systems Management (JNSM), Online First Springer NL., Feb. 2007, (<http://www.springerlink.com/content/fn655v4258338053/>).
67. Chiang, F; Fernandez, H; Braun, R, Agbinya JI, "Integrating object-oriented O : XML semantics into autonomic decentralised functionalities", International Symposium on Communication and Information Technology, Date: OCT 17-19, 2007 Sydney AUSTRALIA
68. Source: 2007 International Symposium on Communications and Information Technologies, Vols 1-3, pp. 768-773, 2007.
69. Agbinya, JI., Design Considerations of MoHotS and Wireless Chain Networks", in Wireless Personal Communications © Springer 2006, Vol. 40, pp. 91 -106
70. Yang Li, Anthony H. Chan and Johnson I. Agbinya, "Networking in Rural Environments Part I: Feasibility, Benefits and Requirements of Rural Networking", in the Special Issue of Rural Networking the in March 2006 in the African Journal of ICT (<http://epress.uts.edu.au/journals/ajict/>), Vol. 2. No. 2, Jun 2006, pp. 50 – 55;
71. Yang Li, Johnson I. Agbinya and Anthony H. Chan, "Networking in Rural Environments Part I: An Applicable GSM Network Model", in the Special Issue of Rural Networking the in March 2006 in the African Journal of ICT (<http://epress.uts.edu.au/journals/ajict/>), Vol. 2. No. 2, Jun 2006, pp. 56 – 62;
72. Agbinya, J.I. and Rees, D., Multi-Object Tracking In Video, Real-Time Imaging, Academic Press, Vol. 5, October 1999, pp. 295-304, available online at <http://www.idealibrary.com>; Ranked as No.1 in the list of the most requested journal papers (pre-2000) from the Journal of Real-Time Imaging. Ranked 12th all time most requested paper from Journal of RTI in 2003 and 14th in 2004
73. Agbinya, J.I., Microprocessor determination of PWM signals using second order difference equations", IEEE Transactions On Industrial Electronics, vol. IE-34, (4), Nov. 1987, pp. 494 - 496.
74. Agbinya , J.I. (A), "Fast interpolation algorithm using fast Hartley transforms, Proceedings of IEEE, vol. 75, (4) April 1987, pp. 523-524
75. Agbinya, J.I., "Microprocessor based modelling and simulation of distributed parameter system using the noodle algorithm," The Nigerian Engineer, vol. 21, No. 3 & 4, 1986, pp. 18 - 33.

76. Agbinya, J.I., "A microwave FMCW radar system for sensing small subsurface objects" PhD research thesis La Trobe University Doctor of Philosophy, February 1993.
77. Agbinya, J.I., "Digital modelling of distributed parameter systems using microprocessors", MSc thesis by research, University of Strathclyde, Glasgow, Scotland, 1982.
78. Agbinya, J.I. "Internet Connections In Nigeria: A Requirement for Information On Demand", Proc. The Nigerian Internet Group (NIG) Workshop, Lagos, Nigeria, March, 1995. Also in Africa Journal of Literary studies 1995.
79. Agbinya, J.I., "Two-Dimensional Interpolation of Real Sequences Using the DCT", Electronics Letters, vol. 29, (2), 1993, pp. 204 - 205
80. Agbinya, J.I. "Interpolation using the discrete cosine-transform", Electronics Letters, Vol. 28, (20) September 24, 1992, pp. 1927 - 1928.
81. Agbinya, J.I. "Comments on 'Interpolation using Hartley transform", Electronics Letters, Vol. 28, (14), 1992, pp. 1355 - 1356.
82. Agbinya, J.I., "Least-squares rail line vibration modelling and analysis," Nigerian Journal of Engineering, Feb. 1990.
83. Agbinya, J.I., "Comments on fast interpolation algorithm using fast Hartley transforms", Proc. IEEE, vol. 75, (7), July 1988, pp. 851.
84. Agbinya, J.I., "A comparative digital algorithm for distributed parameter systems," The Nigerian Engineer, vol. 25, (3), July 1988, pp. 25 - 31.
85. Okuthe P. Kogeda and Johnson I Agbinya, Automation of Cellular Networks Faults, in Cellular Networks - Positioning, Performance Analysis, Reliability, ISBN 978-953-307-246-3, edited by Agassi Melikov, 2011, pp. 333 - 352
86. Merhnoush Masihpour and Johnson I Agbinya, "Energy Scavenging for Magnetically Coupled Communication Devices", in Green Mobile Devices and Networks " (ISBN: 9781439859896), (Eds. Hrishikesh Venkataraman and Gabriel-Miro Muntean), CRC Press, Taylor and Francis Group, USA., March 5, pp. 211-236, 2012
87. Mahira M. Mowjoon and Johnson I Agbinya (2010). Secure Wireless Mesh Network based on Human Immune System and Self-Organizing Map, Self-Organizing Maps, George K Matsopoulos (Ed.), ISBN: 978-953-307-074-2, INTECH, Available from: <http://sciyo.com/articles/show/title/secure-wireless-mesh-network-based-on-human-immune-system-and-self-organizing-map>; April 2010, pp. 381 - 395
88. Mahira M. Mowjoon, Johnson Agbinya, Wireless Mesh Immune System, book chapter published by IGI book publication, 2010
89. Mahira M. Mowjoon and Agbinya JI., "Towards Self-Organising Map Classification in Human Immune System Inspired Adaptive Security Management in Wireless Mesh Networks", Intechweb, Austria, August 2009
90. Mahira M. Mowjoon and Agbinya JI., "Bio Inspired Secure Routing in Wireless mesh Networks", in Intelligent Manufacturing & Automation: Theory, Practice & Education, Austria Center Vienna (ACV) - 25-28th Nov. 2009
91. Tran TD and Agbinya JI, "Network Invading Attack on Key Pre-distribution Schemes for Distributed Sensor Networks and Countermeasures", in the book "Security of Self-Organising Networks: MANET, WSN, WMN, VANET", editor Al-Sakib Khan Pathan, Auerbach Publications, CRC Press, Taylor & Francis Group, USA, 2009
92. Tran TD and Agbinya JI, "Non-Threshold Deterministic Pairwise Key Establishment Scheme for Clustered Distributed Sensor Networks" in Biomedical and Environmental Sensing", (Editor: Agbinya, JI, Biermann E, Hamam Y, Rocaries F and Lal S, River Publishers Denmark, July 2009

93. Agbinya JI, "Planning and Addressing of Wireless Sensor Networks", in Biomedical and Environmental Sensing", (Editor: Agbinya, JI, Biermann E, Hamam Y, Rocaries F and Lal S, River Publishers Denmark, July 2009
94. Alhattab M and Agbinya, JI., "Planning of Wireless Mesh Networks" in Planning and Optimisation of Broadband Wireless IP Networks", (Editor: Agbinya, JI, River Publishers Denmark, July 2009
95. Selvaraj N and Agbinya JI, "Planning of Personal Area Networks (II)" in Planning and Optimisation of Broadband Wireless IP Networks", (Editor: Agbinya, JI, River Publishers Denmark, July 2009
96. Merhnoush Masipour and Agbinya JI, "Planning of WiMAX and LTE Networks", in Planning and Optimisation of Broadband Wireless IP Networks", (Editor: Agbinya, JI, River Publishers Denmark, November 2009
97. (Invited Book Chapter) Agbinya, JI., "SIP Security and Quality of Service Performance" in 'SIP Handbook: Services, Technologies and Security' (Editors: Syed Ahson and Mohammad Ilyas, (CRC Press, 2008)
98. Nkansah-Gyekye and Agbinya, JI., "Vertical Handoffs in Fourth Generation Wireless Networks" in Book: Advances in Broadband Communication and Networks, Editors: Agbinya et al, ISBN: 978-87-92329-00-4; ISBN E-Book: 978-87-92329-01-1 (River Publishers Denmark 2008)
99. Frank Chiang, Johnson I Agbinya and Robin Braun; "Risk and Vulnerability Assessment of Secure Autonomic Communication Networks", in Book: Advances in Broadband Communication and Networks, Editors: Agbinya et al, ISBN: 978-87-92329-00-4; ISBN E-Book: 978-87-92329-01-1 (River Publishers Denmark 2008)

2.4 Papers in peer-reviewed conference proceedings

1. Johnson I Agbinya and Nathan A Agbinya, "Revolutionising Cardiothoracic Surgery with Non-invasive Inductive Resonance Flowmetry", 2025 Annual Cardiothoracic Surgery Meeting of Aotearoa NZ, March 22, 2025
2. Johnson I Agbinya, "Characteristics of Pythagoras Quantum Twin State Processors", Proc. 14th ICAEIC-2025, Sydney, Australia, February 10-13, 2025.
3. Islam Mohammad Tahidul, Ammara Mehmood, and Johnson I Agbinya; "Optimization of Throughput for Multi-Radio based Rendezvous in Cognitive Radio Communication", Proc. 14th ICAEIC-2025, Sydney, Australia, February 10-13, 2025.
1. Nidhy Varghese, Johnson I Agbinya, and Mohsin Murtaza, "Improving Sensor Vision in Modern Autonomous Vehicles During Adverse Weather Condition", Proc. 14th ICAEIC-2025, Sydney, Australia, February 10-13, 2025.
2. Ripon Dutta, Johnson I Agbinya, and Mohsin Murtaza; "Effects of Age on Heart Rate Variability and Mental Workload in Smart Vehicle Operations with Secondary Tasks", Proc. 14th ICAEIC-2025, Sydney, Australia, February 10-13, 2025.
3. Mary Grace Lubay, Johnson I Agbinya, Mohsin Murtaza, Abdulmajeed Alenezi and Chi-Tsun Cheng, "Assessing the Impact of Secondary Tasks on Heart Rate Variability and Mental Workload in Driving", To appear in Proceedings of 2024 IEEE International Conference on Future Machine Learning and Data Science (FMLDS 2024), UWS, Penrith, November 2024.
4. Agbinya JI, Abuelgasim Shaza, "Modelling and Analysis of Transient Evoked Otoacoustic Emissions for Human Biometric Recognition", Proceedings of the PACT, Lusaka Zambia, 2023, pp. 11 – 16.
5. Tahsien Al-Quraishi, Lamyaa Al-Omairi, Rahul Thakkar, Chetanpal Singh, Johnson Agbinya, Osama A. Mahdi and Bhagwan Das, "Analysis of Breast Cancer Survivability Using Machine Learning Predictive Technique for Post-Surgical Patients", Proceedings of the PACT, Lusaka Zambia, 2023, pp. 22 – 28.
6. Bhagwan Das, Johnson I Agbinya, Sonia Lohana, Amoakoh Gyasi-Agyei, Osama A. Mahdi, Tahsien Al-Quraishi and Ammar Alazab, "Engineering Education Management for Sustainable Development

- through Globalization, Diversity and Inclusion – A Curriculum Perspective”, Proceedings of the PACT, Lusaka Zambia, 2023, pp. 22 – 28.
7. Amoakoh Gyasi-Agyei, Tahsien Al-Quraishi, Bhagwan Das, and Johnson I. Agbinya, “Exploratory Analysis and Preprocessing of Dataset for the Classification of Osteosarcoma Types”, Proceedings of the PACT, Lusaka Zambia, 2023, pp. 46 – 52.
 8. M.O. Ukoba, E.O. Diemuodeke, T.A. Briggs, K. E. Okedu, K. Owebor, M. Imran, and M.M. Ojapah, and J. I. Agbinya, “Assessment of Biomass Energy Potentials and Appropriate Sites in Nigeria using GIS Computing Strategy”, Proceedings of the PACT, Lusaka Zambia, 2023, pp. 132 – 137.
 9. Benneth. Oyinna, Kenneth E. Okedu, Ogheneruona E. Diemuodeke, Lois E. David, Isaac N. Onuche, Elijah A. Osemudiamen, Johnson I. Agbinya, “Using ArcGIS for Optimal Location of Small Hydropower Sites in Nigeria for Sustainable Development”, Proceedings of the PACT, Lusaka Zambia, 2023pp. 138 - 143
 10. Ghassan Kbar, A. Alazab and Johnson I Agbinya “Multi-factor based enhancing students’ motivations”, 20th IEEE International Conference on Industrial Technology (IEEE-CIT 2019), February 13-15, Melbourne, Australia, 2019.
 11. Agbinya JI, “*Application of Gaussian Primes in 5G QAM Modulation Using Lattice Power Allocation Scheme*” Proc. PACT 2019, Swaziland, March 10-13, 2019
 12. Nagi F. Ali Mohamed and Johnson I. Agbinya, “Multidimensional Wireless Power Transfer Using Inductive Trifid Antennas”, Proc. PACT 2019, Swaziland, March 10-13, 2019
 13. Johnson I Agbinya, “New Human Hand Geometry Modelling for Biometri Security Systems”, Proceedings ICCSCS, Melbourne, Dec 10-12 2018, pp. 99-106.
 14. Walid K A Hassan, Johnson I Agbinya, Yacho Ran and Gun Yun Tian, “ A Survey of Energy Efficient Network in Cloud Environment”, Proceedings ICCSCS, Melbourne, Dec 10-12 2018, pp. 18-38.
 15. Nagi F Mohammed and Johnson I Agbinya, “Magnetic Field Tuning and Control for Wireless Power Transfer Using Inductive Tuning Plunger and Conical Coils”, Presentation at the 2018 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer, Montréal, Canada, 3-7 June 2018.
 16. Nagi F Mohammed and Johnson I Agbinya, “Magnetic Field Tuning Architectures in Wireless Power Transfer Systems”, Presentation at the 2018 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer, Montréal, Canada, 3-7 June 2018
 17. Johnson I Agbinya (Invited Lecture), Nagi F Ali Mohammed and Khalid Aboura, “Models and Design of Cooperative Relaying in Inductive Communication Systems”, “In Memoriam” Symposium on Simulation Based Decision Support and Business Intelligence, i Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
 18. Nagi F Ali Mohammed (Invited Lecture), Johnson I Agbinya and Khalid Aboura, “Study and Implementation of Conical Coil Transmitter in Near-field Inductive Communication System”, “In Memoriam” Symposium on Simulation Based Decision Support and Business Intelligence, in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
 19. Atika Malik Hussein Hamid and Johnson I Agbinya, “Multilayer Perceptron for Hepatitis Diagnosis using Weka Tool”, in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
 20. Atika Malik Hussein Hamid and Johnson I Agbinya, “Development of Wireless Sensor Networks for Water Quality Measurement and Monitoring in African Countries”, in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017

21. Johevajile K. Mazima, Johnson I Agbinya, "Monitoring of Grain Crops in Storage Building Through Wireless Communication Technology", in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
22. Shaza Abuelgasim and Johnson I Agbinya, "Investigation of the Biometric Radio Frequency Signal Response and Recognition of Human Ear", in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
23. Nahla Fatahelrahman Osman Ibrahim and Johnson I Agbinya, "A Survey of Small Cryptographic Algorithm for Internet of Things", in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
24. Refga Abdo and Johnson I Agbinya, "DNA cryptography for wireless Internet of Things", in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
25. Wiam A Elyass Elmalih and Johnson I Agbinya, "Secure 6LOWPAN Network for Smart Buildings", in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
26. Wahbi Abdalla and Johnson I Agbinya, "Modelling of Angular Inter-Beam Handover in Fifth Generation Mobile Communication Networks", in Proc. 29th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from July 31 – August 4, 2017
27. Nagi F Ali Mohamed, Johnson I Agbinya and Khalid Aboura, " Frequency Allocation Strategy in Inductive Wide Area Wireless Energy Transfer Systems", The 2nd International Conference on Communication, Information Technology and Robotics, 2-4 June 2016, Dubai, United Arab Emirates.
28. Khalid Aboura and Johnson I Agbinya, "Simulation Based Decision Support and Business Intelligence", in Proc. PAN African Conference on Science, Computing and Telecommunications, Nairobi, March 6 – 10, 2017
29. Nagi F Ali Mohamed, Johnson I Agbinya and Khalid Aboura, "Multi-Spectral, Multideimensional Wireless Power Transfer Systems, Symposium on Research Spotlight in Modelling and Simulation of Physical and Biological Systems, Depending on Space, Time, Retardation, Anticipation, at the 36th Anniversary Meeting of The International Institute for Advanced Studies (IIAS) & 28th International Conference on Systems Research, Informatics and Cybernetics, (Baden-Baden, Germany, from August 1st to August 5th, 2016)
30. Agbinya JI, "Nature Inspired Antenna Arrays, in Proc. PACT 2015, Kampala Uganda, July 27-29: pp. 17 – 22
31. Abdulah Aseri, Khalid Aboura Sufian Munawar, Najima Saleem and Johnson I Agbinya, "Development of an IT Based Saudi Arabia Educational System", Proc 3rd IEEE PACT 2015, Kampala Uganda, pp. 164 – 168

32. Khalid Aboura, Johnson I Agbinya and Abdulah Aseri, "The Computational Aspects in Some Stochastic Processes in Maintenance", Proc 3rd IEEE PACT 2015, Kampala Uganda, pp. 142 – 147
33. Johevaljile K. Mazima, Shubi Kaijage, Johnson I Agbinya and Emmanuel Mannasseh, "Overview of Electromagnetic field Interaction with Grains Crops", in Proc. PACT 2015, Kampala Uganda, July 27-29
34. Agbinya JI (2014), "Analysis of New Crosstalk Multiple Access Systems for Inductive Communication Systems, in Proc. PACT 2014, Arusha Tanzania, July 14-17: pp. 17 - 22
35. Mohamed NFA and Agbinya JI (2013), Design of multi-dimensional wireless power transfer system, in Proc. PACT 2013, Lusaka, Zambia, July 15-18: 85-91
36. Phiri J, Zulu DM, Agbinya JI and Zhao T.(2013), Fuser block technologies performance based on identity attributes metrics models, in Proc. PACT 2013, Lusaka, Zambia, July 15-18: 188 – 193
37. Aboura K and Agbinya JI (2013), Bayesian analysis of stay times in a system, in Proc. PACT 2013, Lusaka, Zambia, July 15-18: 160 – 164
38. Agbinya JI, McMichael Celia, Nsubuga-Kyobe, Apollo and Andrewartha, Kathy, "Creation of a low cost solar-powered hearing aid, for assembly as a 'cottage industry' in developing communities", in Proc. Symposium Sustainable Development: Beyond Carbon, La Trobe University, Feb. 20, 2012
39. Johnson Agbinya and Mehrnoush Masihpour; "Magneto inductive waveguide link budget: AM2 model"; "14th International Asia Pacific Conference on Computer Aided System Theory, 2012, Sydney, Australia, pp. 85 – 90.
40. Johnson Agbinya, Mehrnoush Masihpour, Boris Lakicevic, Nithya Selvaraj, Zenon Chakczko, Arthur Ollet, Jasmin Oi-Sanchez and Stephane Ibob; "Hardware Evaluation of Near Field Magnetic Induction Communication Systems" ; "14th International Asia Pacific Conference on Computer Aided System Theory, 2012, Sydney, Australia, pp. 81 - 84
41. Jackson Phiri, Tiejun Zhao, Johnson I. Agbinya and David M. Zulu, "Adaptive Neuro-Fuzzy Inference System Fuser Block in a Multifactor Authentication System", Proceedings of the 7th IB2COM, November 5-8, 2012, Sydney, Australia, ISBN: 978-0-9872129-1-7, pp. 11 – 15
42. Hoang Nguyen, Johnson I Agbinya and John Devlin, "Near field magnetic communication under MIMO configuration", Proceedings of the 7th IB2COM, November 5-8, 2012, Sydney, Australia, ISBN: 978-0-9872129-1-7, pp. 101 – 105
43. Esam Abbas Bakheet, Ben Soh and Johnson Agbinya, "How to Avoid Network Congestion During a Disaster for an Integrated Emergency Command and Control System", Proceedings of the 7th IB2COM, November 5-8, 2012, Sydney, Australia, ISBN: 978-0-9872129-1-7, pp. 32 – 37
44. Hoa Doan Thanh and Johnson I Agbinya, "Effects of Second Neighbour Interaction on Frequency Splitting in Near Field Inductive Communication Systems", Proceedings of the 7th IB2COM, November 5-8, 2012, Sydney, Australia, ISBN: 978-0-9872129-1-pp. 190 - 195

45. Rumana islam, Agbinya JI, Jackson Phiri and Mastali N, "Design and Implementation of Multimodal Digital Identity Management System Using Fingerprint Matching and Face Recognition, in The Third International Workshop on Ubiquitous Computing, June 26-28, Ankara, Turkey , 2011
46. Jackson Phiri, Tie-Jun Zhao and Johnson I Agbinya, "Adaptive Neuro-Fuzzy Inference System in a Mutlifactor Authentication System" in Proc. 2011 IEEE International Conference on Information Theory and Information Security (ICITIS2011), November 4-6, 2011, Hangzhou, China
47. Johnson I. Agbinya, " A High Capacity Near-Field Inductive Coupled MISO Communication System for Internet of Things", in Proc. IB2COM, Nov. 21 – 24, Melbourne, Australia, 2011
48. Rumana Islam, Nazia Mastali, Johnson I Agbinya and Jackson Phiri, "Design and Implementation of Multimodal Digital Identity Management Systems Using Fingerprint Matching and Face Recognition", in Proc. IB2COM, Melbourne, November 21-24, 2011
49. Phiri, J., Zhao, Tiejun and Agbinya, JI, "Biometrics, Device Metrics and Pseudo Metrics in a Multifactor Authentication with Artificial Intelligence", in Proc. IB2COM, Melbourne, November 21-24, 2011
50. Frank Jiang, Steve Ling and Johnson Agbinya, "Biologically Inspired host-based anomaly detection system using multiple detection engines and sequential pattern recognition system", in Proc. IB2COM, Melbourne, November 21-24, 2011.
51. Agbinya, J.I., Cloaking and Anti-Cloaking (Keynote Address), IEEE International Conference on Mechatronics and, Kuala Lumpur, Malaysia, May 17 – 19, 2011.
52. Johnson I Agbinya and M. Masihpour, "Power Equations and Capacity Performance of Magnetic Induction Body Area Network Nodes," in Proc. of IB2Com, Malaga, Spain, December 15 - 18, 2010.
53. M. Masihpour and J.I. Agbinya, "Cooperative Relay in Near Field Magnetic Induction: A New Technology for Embedded Medical Communication Systems," in Proc. of IB2Com, Malaga, Spain, December 15 - 18, 2010.
54. J.I. Agbinya and M. Masihpour, "Excitation Methods for Magneto Inductive Waveguide Communication Systems," in Proc. of IB2Com, Malaga, Spain, December 15 - 18, 2010
55. Agbinya JI and Masihpour M., "Near field magnetic induction communication Link Budget: Agbinya-Masihpour model", in Proc. of IB2Com, Malaga, Spain, December 15 - 18, 2010.
56. Nazia Mastali and JI Agbinya, "Authentication of Subjects and Drivers Using Biometrics and Identity Management Systems for Pervasive Mobile Computing: A Survey Paper", in Proceedings of IB2Com, Malaga, Spain, December 15 - 18, 2010
57. Gugulethu Mabuza, Tarik Al-Ani, Karim Djouani, Johnson I. Agbinya: "Non Destructive Sensing of Food Materials using Fuzzy c-means Clustering", BIOCOMP, 2010: pp. 773-778
58. Tran TD & Agbinya JI; "Feasibility of Key-swapping Collusion Attack on Distributed Sensor Networks", in Proceedings of IB2Com, Malaga, Spain, December 15 - 18, 2010

59. Agbinya JI and Masihpour M., "Magnetic Induction Channel Models and Link Budgets: A Comparison between Two Agbinya-Masihpour Models", in Proc. the Third International Conference on Communications and Electronics (ICCE 2010), 11 – 13 August, 20, 2010, Nha Trang, Vietnam
60. Tran TD & Agbinya JI, "Revisiting Key-swapping Collusion Attack on Distributed Sensor Network" in Proc. The Fourth International Conference on Sensor Technologies and Applications (SENSORCOM), July 18 - 25, 2010 - Venice/Mestre, Italy, 2010
61. Agbinya JI and Umuhoza D, "A New Trust Chain Model", in Proc. 24th International Conference in Advanced Information Networking and Applications Workshop (AINA'2010); April 20-23, Perth, Western Australia, 2010, pp. 1077 - 1084
62. Denise Umuhoza, Johnson I Agbinya and Anwar Vahed, "A Multi-Tier Trust Framework for the Geospatial Domain", 4th International Workshop on Intelligent, Mobile and Internet Services in Ubiquitous Computing (IMIS 2010), Krakow, Poland, 15-18 February 2010
63. Tran TD & Agbinya JI, "Early and Lightweight Distributed Detection of Node Replication Attack in Sensor Networks, WCNC Sydney, April 18 – 21, 2010
64. Essam AlRahali , Johnson Agbinya and Zenon Chaczko; "The Role of Re-engineering Education and Training Operations in Creating Job Opportunities and Reducing Unemployment Rates", The 7th International Conference on Informatics and Systems, 28 – 30 March, 2010 Cairo, EGYPT
65. Essam AlRahali , Johnson Agbinya and Zenon Chaczko; "Business Process Re-engineering in Saudi Arabia: A Survey of Understanding and Attitudes", Water Desalination Conference in the Arab Countries 11-14 April, 2010 , Saudi Arabia
66. Tamara Sztynka, Sara Lal, Victor Wong and Johnson Agbinya, "Determining Emotion from Facial Image Vectors", in Proc. 20th International Symposium on the Forensic Sciences, 5 - 9 September 2010, Sydney Australia
67. Agbinya, JI, Selvaraj N., Ollett A, Ibos S., Oi-Chanchez Y., Brennan M. and Chaczko Z., "Size and Characteristics of the 'Cone of Silence' in Near Field Magnetic Induction Communications", in Proc. MILCIS2009, Canberra, 10-12 November 2009
68. Al-hattab M and Agbinya JI., "Self-Trajectory Estimation for Wireless Mobile Networks", in Proc. 4th International Conference on Broadband Communications and Biomedical Applications", July 17 – 20, Wroclaw Poland, 2009
69. Al-Ja'afreh H and Agbinya, JI., "Self-Managed Vehicular Networks: A Survey Paper", in Proc. 4th International Conference on Broadband Communications and Biomedical Applications", July 17 – 20, Wroclaw Poland, 2009
70. Agbinya JI, Lee V, Chaczko Z and Aboura K, Recognition of Radio Signal Pollution Levels and Signatures", in Proc. 4th International Conference on Broadband Communications and Biomedical Applications", July 17 – 20, Wroclaw Poland, 2009
71. Agbinya JI, Chaczko Z and Aboura K, Radio Frequency Pollution Mapping", in Proc. 4th International Conference on Broadband Communications and Biomedical Applications", July 17 – 20, Wroclaw Poland, 2009

72. Mahira M Mowjoon (Mahira Atham Lebbe), Johnson I Agbinya, and Zenon Chaczko, "Replicating Cytokines in Modelling Signal Exchange between Nodes in Wireless Mesh Networks" in Proc. of the International MultiConference of Engineers and Computer Scientists, 2009, pp315-318
73. Agbinya JI, Selvaraj N., Ollett A, Ibos S., Oi-Chanchez Y., Brennan M. and Chaczko Z., "Size and Characteristics of the 'Cone of Silence' in Near Field Magnetic Induction Communications", in Proc. MILCIS2009, Canberra, 10-12 November 2009
74. Agbinya JI and Agbinya MA; A New Address Allocation Scheme and Planning of Personal Area and Sensor Networks, in IEEE Xplore and Proc. International Conference on Intelligent Pervasive Computing (IPC-08) Sydney, Australia, December 10th ~ 12th, <http://ipc2008.he.nias.ac.jp/page9.html> ; 2008
75. Al-Hattab, M. and Agbinya, JI; Use of Street Maps to Aid Node Localization in Mobile Wireless Networks", in IEEE Xplore and Proc. International Conference on Intelligent Pervasive Computing (IPC-08) Sydney, Australia, December 10th ~ 12th, <http://ipc2008.he.nias.ac.jp/page9.html> ; 2008
76. Mabuza PG, Agbinya JI & Biermann E; „Non-Destructive Sensing of Food Materials Using Radio Frequencies; in Proc. IEEE BroadCom 2008 and IEEE Xplore; , November 23-26, 2008
77. Agbinya, JI and Chiang F., "Bio-Inspired Topology Convergence Algorithms in Vehicular Networks", in Proc. ICT Africa, Addis Ababa, Ethiopia, February 12 – 16, 2008
78. Agbinya, JI., "Impact of Internet on African Female Social Behaviour: Issues Raised By Online Dating Sites", in Proc. ICT Africa, Addis Ababa, Ethiopia, February 12 – 16, 2008
79. Mahadevan V. and Agbinya, JI., "Replacing Intuition with Soft Computational Modeling Technique in Telecollaboration Business Environments", in Proc. India Software Engineering Conference (ISEC), Hyderabad India, Feb. 19 – 22, 2008
80. Carmen Duthoit, Tamara Sztynnda, Sara Lal, Budi Yap and Johnson Agbinya, "Optical Flow Image Analysis of Facial Expressions of Human Emotion – Forensic Applications", e-Forensics 2008, Adelaide, South Australia, January 21-23, 2008
81. Lebbe, MA., Agbinya JI and Chaczko, Z., "Policy based danger management in Artificial Immune System inspired secure routing in Wireless Mesh Networks, presented at the International Conference on Computer and Communication Engineering (ICCCE08), Kuala Lumpur, Malaysia, 2008
82. Lebbe, MA., Agbinya JI and Chaczko, Z., "Artificial Immune System inspired danger modeling in Wireless Mesh Networks", presented at the International Conference on Computer and Communication Engineering (ICCCE08), Kuala Lumpur, Malaysia, 2008
83. Al-Hattab, M. and Agbinya, JI., "Topology Prediction and Convergence for Networks on Mobile Vehicles", presented at the International Conference on Computer and Communication Engineering (ICCCE08), Kuala Lumpur, Malaysia, 2008
84. Tran TD & Agbinya JI; "A Framework for Confronting Key-swapping Collusion Attack on Random Pairwise Key"; in Proc. 4th IEEE International Workshop on Wireless and Sensor; Atlanta, USA; September 2009

85. TD & Agbinya JI; "Non-threshold Deterministic Pairwise Key Establishment Scheme for Clustered Distributed Sensor Networks"; in Proc. IEEE BroadCom 2008 and IEEE Xplore, November 23-26, 2008
86. Essam Rahali, Johnson Agbinya, Zenon Chaczko, Chris Chiu; Business Process Re-engineering in Saudi Arabia: A Survey of Understanding and Attitudes", "; in Proc. IEEE BroadCom 2008, November 23-26, 2008
87. Agbinya JI, Navarrete GP;" Topology Adaptation to Services in Wireless Networks in Motion (NEMO); in Proc. IEEE BroadCom 2008 and IEEE Xplore, November 23-26, 2008
88. Yaw Nkansah-Gyekye, Agbinya JI; "A Vertical Handoff Decision Algorithm for Next Generation Wireless Networks", in Proc. IEEE BroadCom 2008 and IEEE Xplore, November 23-26, 2008
89. Agbinya JI, Rumana Islam R, Kwok C; "Development of Digital Environment Identity (DEITY) System for Online Access", in Proc. IEEE BroadCom 2008 and IEEE Xplore, November 23-26, 2008
90. Yaw Nkansah-Gyekye, Agbinya JI; An Optimal Vertical Handoff Decision Algorithm for UMTS - WiMAX", in Proc. The 2nd IFIP International Symposium on Wireless Communications and Information Technology in Developing Countries, CSIR Conference Centre, CSIR Campus, 6-7 October 2008, Pretoria, South Africa
91. Nkansah-Gyekye, Agbinya JI; An Optimal Vertical Handoff Decision Algorithm for UMTS - WiMAX", in Proc SATNAC, 2008
92. Agbinya, JI, Gyasi-Agyei, A., Vucetic, B. , Li, Y. and Umuhoza, D., "Range extension and channel capacity increase in direct short range UWB communications", in Proceedings 2nd International conference on wireless broadband and ultra wideband communications, Aug. 27 – 30, 2007
93. F. Chiang and J.I. Agbinya, "Bio-Inspired Topology Convergence Algorithms in Resource-Constrained VANETs", in Proceedings, The Australian Telecommunication Networks and Applications Conference (ATNAC2007), Christchurch New Zealand, Dec. 2-5, 2007
94. Mehadevan, V. and Agbinya, JI., "A Comprehensive Analytical Model for Video over IP in Telecollaboration Business System Environments", in Proc. International Conference on Intelligent Technologies (InTech'07), December 12 – 14, 2007, pp.
95. Lebbe, MA., Agbinya JI, Chaczko and F. Chiang, "Self-Organised Classification of Dangers for Secure Wireless Mesh Networks", in Proceedings, The Australian Telecommunication Networks and Applications Conference (ATNAC2007), Christchurch New Zealand, Dec. 2-5, 2007
96. Okuthe P.K and Agbinya, JI "Cellular Network Fault Prediction Using Mobile Intelligent Agent Technology", In the Proceedings of Southern African Telecommunication Networks and Applications Conference (SATNAC), Sugar Beach Resort, Mauritius, 9-13 September 2007, ISBN:
97. Umuhoza, D., Agbinya, JI, and Omlin, C., "Estimation of Trust Metrics for MANET using QoS Parameter and Source Routing Algorithms", in Proceedings 2nd International conference on wireless broadband and ultra wideband communications, Aug. 27 – 30, 2007

98. Nkansah-Gyekye, Y. and Agbinya, JI., "Vertical Handoff Decision for UMTS-WLAN", in Proceedings 2nd International conference on wireless broadband and ultra wideband communications, Aug. 27 – 30, 2007
99. Phiri, J. and Agbinya, JI., , "Fusion of Multi-Modal Credentials for Authentication in Digital Identity Management Systems", in Proceedings 2nd International conference on wireless broadband and ultra wideband communications, Aug. 27 – 30, 2007
100. Okuthe P. Kogeda and Agbinya, JI, "Proactive Cellular Network Faults Prediction Through Mobile Intelligent Technology", in Proceedings 2nd International conference on wireless broadband and ultra wideband communications, Aug. 27 – 30, 2007
101. Frank Chiang, Johnson I. Agbinya, Robin Braun (2007), "Integrating Object-oriented O:XML Semantics into Autonomic Decentralised Functionalities", in Proc. 7th International Symposium on Communications and Information Technologies (ISCIT '07), Sydney, Australia, 2007
102. Agbinya, JI, "Development of a Rural Wide Area Networks on WiMAX Backbone Using Broadband Wireless Technologies", presented in WITFOR 2007, Addis Ababa, Ethiopia, August 22 – 24, 2007
103. Agbinya, JI and Phiri, J. "Establishing the Significance of Credential Attributes in Digital Identity Management Systems" in Proc. EUROCAST 2007, Feb. 12 – 17, Las Palmas, Spain, 2007
104. Jiang, F and Agbinya, JI, "A Bio-inspired Telecollaboration Service Taxonomy: Usability Related Benefits and Constraints", in Proc. EUROCAST 2007, Feb. 12 – 17, Las Palmas, Spain, 2007
105. Mahadevan, V and Agbinya, JI. And Braun, R.; "Analyzing usability alternatives in multi-criteria decision making during ERP training" in Proc. 7TH International Conference On Information Technology Based Higher Education and Training, Vols 1 & 2 , pp. 314-327 2006
106. Nkansah-Gyekye, Y. and Agbinya, JI., "Vertical handoff between WWAN and WLAN", Proc. IEEE 5th International Conference on Networking, ICN'06, Mauritius, Apr. 23 – 28, 2006
107. Phiri, J. and Agbinya, JI., "Modelling and Information fusion in digital identity management systems", in Proc. IEEE 5th International Conference on Networking, ICN'06, Mauritius, Apr. 23 – 28, 2006
108. Umuhoza d., Momani M., Agbinya, JI and Omlin, CW, "On Trust Metrics and Trust Modelling in Mobile Ad Hoc Networks", in Proc. ICTe Africa, May 2006, Nairobi, Kenya
109. Nkansah-Gyekye, Y. and Agbinya, JI., "Vertical handoff decision algorithms using fuzzy logic", Proc. IEEE International Conference on Wireless Broadband and Ultra Wideband Communications, Crown Plaza Hotel, Sydney, March 13 – 16, 2006
110. Navarrete, G.P., Agbinya, JI. , Mohammad Momani, Mahmood Akache, "Mobility state analysis for moving wireless networks", Proc. IEEE International Conference on Wireless Broadband and Ultra Wideband Communications, Crown Plaza Hotel, Sydney, March 13 – 16, 2006

111. Momani, M., Agbinya, J.I., R., Gina P. Navarrete and Mahmood Akache, "A new algorithms of trust formation in wireless sensor networks", Proc. IEEE International Conference on Wireless Broadband and Ultra Wideband Communications, Crown Plaza Hotel, Sydney, March 13 – 16, 2006
112. Momani, M., Agbinya, J.I., Alhmouz, R., Gina P. Navarrete and Mahmood Akache, "A new framework of establishing trust in Wireless Sensor Networks", in Proc. International Conference on Computer & Communication Engineering (ICCCE06), Prince Hotel and Residence, Kuala Lumpur, Malaysia, 9-11 May, 2006
113. Kogeda, P.O., Agbinya, J.I. and Omlin, C., "A probabilistic approach to fault prediction in cellular networks", Proc. IEEE 5th International Conference on Networking, ICN'06, Mauritius, Apr. 23 – 28, 2006
114. Kogeda, P.O. and Agbinya, J.I., "Prediction of faults in cellular networks using Bayesian network model", Proc. IEEE International Conference on Wireless Broadband and Ultra Wideband Communications, Crown Plaza Hotel, Sydney, March 13 – 16, 2006
115. Agbinya, J.I., Bernard Lok, B., Wong, Y.-Z. and Da Silva, S., "Automatic Online Porn Detection and Tracking", Proc. ICT 2005 - 12th International Conference on Telecommunications, Cape Town, South Africa, 3 – 6 May 2005
116. Da Silva, S. and Agbinya, J.I., "Implementation of fast face detection algorithms for mobile phones", in Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2005, 11-14 September, Central Drakensberg, Kwazulu-Natal, South Africa.
117. Da Silva, S. and Agbinya, J.I. "Face Recognition Programming on Mobile Handsets", Proc. ICT 2005 - 12th International Conference on Telecommunications, Cape Town, South Africa, 3 – 6 May 2005
118. Agbinya, J.I., Gina P. Navarrete, Mohammad Momani and Mahmood Akache, "Limits of Interference in MoHotS and Wireless Chain Networks", in Proc. DSPCS'05 & WITSP'05, Noosa Heads (Sunshine Coast, Australia), 19 – 21 December 2005.
119. Agbinya, J.I., Gina P. Navarrete, Mohammad Momani and Mahmood Akache, "Limits of Interference in MoHotS and Wireless Chain Networks", in Proc. DSPCS'05 & WITSP'05, Noosa Heads (Sunshine Coast, Australia), 19 – 21 December 2005.
120. Agbinya, J.I., "QoS Functions and Theorems for Moving Wireless Networks" Proc. IEEE International Conference on Information Technology and Application, Sydney Australia, July 4 – 7, 2005
121. Agbinya, J.I., Truong, H.D., "A Comparison of Ultra Wideband Signal Functions for Wireless Ad Hoc Networks", Proc. IEEE International Conference on Information Technology and Application, Sydney Australia, July 4 – 7, 2005
122. Agbinya, J.I., Truong, H.D., "UWB Signal Bandwidth Expansion and Synthesis Using Prolate and Wavelet Functions," Proc The 4th International Conference on Mobile Business (ICMB 2005), Sydney, Australia, 11th –13th July, 2005, pp. 686-689.
123. Agbinya, J.I., "Comparison of Ultra Wideband Signal Bandwidth Synthesis and Expansion Using Hermite and Wavelet Functions", Proceedings ICT 2005 - 12th International Conference on Telecommunications, Cape Town, South Africa, 3 – 6 May 2005 Citation (2)

124. Agbinya, J.I., "Service Selection Buffet Algorithms for Emerging Mobile Communication Networks", Proc. ICT 2005 - 12th International Conference on Telecommunications, Cape Town, South Africa, 3 – 6 May 2005
125. Tivoli, E.L. and Agbinya, J.I., "Communication Cost of SIP Signalling in Wireless Networks and Services", Proc. ICT 2005 - 12th International Conference on Telecommunications, Cape Town, South Africa, 3 – 6 May 2005
126. Tivoli, E.L. and Agbinya, J.I., "Security Issues in SIP Signaling in Wireless Networks and Services", Proc The Fourth International Conference on Mobile Business (ICMB 2005), Sydney, Australia, 11th – 13th July, 2005, pp. 639 – 642.
127. Tivoli, E.L., Agbinya, J.I., "SIP-Based content development for wireless mobile device", in Proc. 1st IEEE International Conference on Computers, Communications, and Signal Processing, 14-16 November, 2005, Renaissance Hotel in Kuala Lumpur, Malaysia.
128. Tivoli, E.L. and Agbinya, J.I., "Wireless SIP (J2ME) Application Development for Mobile Devices", in Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2005, 11-14 September, Central Drakensberg, Kwazulu-Natal, South Africa
129. Yaw-Nkansah-Gyekye and Agbinya, J.I., "Vertical Handoff between WWAN and WLAN", in Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2005, 11-14 September, Central Drakensberg, Kwazulu-Natal, South Africa.
130. Kogeda, P.O. Agbinya, J.I. and Omlin, C., "Probabilistic faults prediction in cellular networks", in Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2005, 11-14 September, Central Drakensberg, Kwazulu-Natal, South Africa.
131. Kogeda, P.O. Agbinya, J.I. and Omlin, C., "Impacts and Cost of Faults on Services in Cellular Networks, " Proc The Fourth International Conference on Mobile Business (ICMB 2005), Sydney, Australia, 11th – 13th July, 2005, pp. 551 – 555. Citations (2)
132. Navarrete, G.P., Agbinya, J.I., Mohammad Momani, Mahmood Akache; "Effects of channel on OFDM signal used for WiMAX and MBWA to support broadband mobile wireless networks", in Proc. DSPCS'05 & WITSP'05, Noosa Heads (Sunshine Coast, Australia), 19 – 21 December 2005.
133. Navarrete, Gina P. and Johnson I. Agbinya, "Effects of Channel and Technologies to support broadband wireless networks", in Proc. 1st IEEE International Conference on Computers, Communications, and Signal Processing, 14-16 November, 2005, Renaissance Hotel in Kuala Lumpur, Malaysia.
134. Momani, M., Agbinya, J.I., Gina P. Navarrete and Mahmood Akache, "Trust Classification in Wireless Sensor Networks", in Proc. DSPCS'05 & WITSP'05, Noosa Heads (Sunshine Coast, Australia), 19 – 21 December 2005.
135. Li, Y. and Agbinya, J.I., "Modeling for Rural Networks Planning", in Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2005, 11-14 September, Central Drakensberg, Kwazulu-Natal, South Africa.
136. Li, Y. and Agbinya, J.I., "Benefits of Fixed to Mobile Substitution In Africa," in Proc. ICT 2005 - 12th International Conference on Telecommunications, Cape Town, South Africa, 3 – 6 May 2005

137. Li Yang and Agbinya, J.I., "Emerging Markets and Benefits of Fixed to Wireless Substitution In Africa," Proc The Fourth International Conference on Mobile Business (ICMB 2005), Sydney, Australia, 11th – 13th July, 2005, pp. 605-609
138. Li Yang and Agbinya, J.I., "Simulating a rural wireless network using Scilab," Proc. IADIS International Conference on Applied Computing, Algarve, Portugal, 22-25 February 2005
139. Agbinya, J.I., Design Concepts: Wireless Moving Networks, Proceedings ICACT'2004, Korea, February 8-11, 2004, pp. 703 – 708.
140. Da Silva, S. and Agbinya, J.I., "Application of Face Recognition with Mobile Phones", Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2004, 6-8 September, Cape Town, South Africa, pp. 373 - 374
141. Da Silva S., and Agbinya, J.I., "Application of face recognition on mobile phones", Proceedings, SATNAC, Cape Town, September 2003.
142. Agbinya, J.I. "Hand Pose Biometrics Models", Proc., The third workshop on Internet, Telecommunications and Signal Processing, WITSP'2004, December 20 – 22, 2004, Adelaide, South Australia, pp. 373 – 378.
143. Agbinya, J.I., Design Concepts: Wireless Moving Networks, Proceedings ICACT'2004, Korea, February 8-11, 2004, pp. 703 – 708.
144. Navarette, G.P., Sandvik, S.I. and Agbinya, J.I., "Architectures of Moving Wireless Networks", Proc., The third workshop on Internet, Telecommunications and Signal Processing, WITSP'2004, December 20 – 22, 2004, Adelaide, South Australia, pp. 293 – 298.
145. Gordon, M. and Agbinya, J.I., "Vertical Handover in Cellular Communication Networks", Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2004, 6-8 September Cape Town, South Africa
146. Henney, A.J. and Agbinya, J.I., "Board games of African origin on mobile phones", in Proc. IEEE Mobility Conference (Mobility, November 14 - 17, 2005), China, 2005.
147. Kogeda, P.O. Agbinya, J.I. and Omlin, C., "Fault-Service Modelling for Cellular Networks", Proceedings South African Telecommunication Networks and Applications Conference (SATNAC) 2004, 6-8 September, Cape Town, South Africa, pp. 369 – 370 Citations (4)
148. R. Shalak, Dr. K. Sandrasegaran, Dr. J. Agbinya, S. Subenthiran, "UMTS Core Network Planning Model and Comparison of Vendor Product Performance", Proceedings ICACT'2004, Korea, February 8-11, 2004, pp. 685 – 689.
149. Da Silva S., and Agbinya, J.I., "Application of face recognition on mobile phones", Proceedings, SATNAC, Cape Town, September 2003.
150. Agbinya, J.I , A Multi Camera Tracking Handshake Algorithm, Proceedings Digital Image Computing: Techniques and Applications (DICTA'99); 7th - 8th December 1999, Curtin University, Perth, Western Australia, pp. 26-30.
151. G.T. Poulton, N.A Oakes, D. G. Geers, R.-Y. Qiao,, M.D.S. Seneviratne, N. E. Frampton, Y. Choi and J.I. Agbinya, The CSIRO PC-Check System, Proceedings 2nd International Conference on Audio and Video-Based Biometric Person Authentication, Washington D.C., March 22-23, 1999, pp. 160 - 165.

152. Agbinya, J I. "Performance of two-dimensional image interpolation using the DCT and DHT", Proc. IEEE Visual Signal Processing and Communications Workshop, Melbourne, 21-22 September 1993, pp. 65 - 68.
153. Agbinya, J I. "Image decimation and interpolation using orthogonal transforms" 3rd Australian Multi-Media Communications, Applications and Technology Workshop (MCAT'93), University of Wollongong NSW, July 14th-15th, 1993, pp.
154. Agbinya, J.I., Devlin, J.C., Cahill, L., and Axon, P., "Block Image Interpolation Via the DCT and Zoom Algorithm", Eighth Workshop on Image and Multidimensional Signal Processing (IEEE Signal Processing Society) Cannes, France , September 8-10, 1993.
155. Agbinya, J.I, Axon, P., Devlin, J.C., and Cahill, L. "Image decimation and interpolation using Walsh-Hadamard transforms", : International Conference on Signal Processing '93/Beijing, China, October 26 - 30, 1993, pp.
156. Agbinya, J.I.Axon, P., Devlin, J.C., and Cahill, L, "A novel DCT pyramid using transform domain techniques", Second International Conference on Modelling and Simulation (MS'93), Victoria University of Technology, Melbourne, July 12-14th, 1993, pp. 49 - 55.
157. Agbinya, J.I., "Image Interpolation using Walsh transform", Second International Conference on Modelling and Simulation (MS'93), Victoria University of Technology, Melbourne, July 12-14, 1993. 67 - 73.
158. Agbinya, J I. and Qiao, R.-Y., "Implementation of Internet-Based CRASys Speech Coder," Proc. TENCON'97, Brisbane Queensland, Australia, December 1997.
159. Agbinya, J I. and Rees, D., "Multi-Scale Video Segmentation Using Isomorphic Transformations," Proc. TENCON'97, Brisbane Queensland, Australia, December 1997.
160. Agbinya, J I. ,Dadd.M, Rees, D., and Ables, J., "What Is In An Image? Content-Based Image Analysis and Applications," Proc. Fifth International Conference Control, Automation, Robotics and Vision, ICARCV'98, Singapore, December 8-11, 1998.
161. David Rees, Geoff. Poulton, Steve Brown, C. Miller, F. Chen, Johnson Agbinya, M. Dadd, J. Ables, J. Lobb, R. Li and S. Luo, Aware Computing at CSIRO, Proceedings Digital Image Computing: Techniques and Applications (DICTA'99); 7th - 8th December 1999, Curtin University, Perth, Western Australia, pp. 84-87.
162. Rees, D., Agbinya, J I., Stone, N., Chen, F., Seneviratne, S., Burgh, M. and Burch, A., "CLICK-IT: Interactive Television For Sports Action Replay," Proc. 14th International Conference On Pattern Recognition, ICPR'98, Brisbane, Queensland, Australia, August 17-20, 1998. A highly downloaded conference papers in pattern recognition in video/image processing in 2003 and 2004 Citations (7)
163. Qiao, R.-Y., Choi, Y. and Agbinya, J I., " A Voice Verifier for Face/Voice Based Person Verification System," Proc. ICSLP'98, Sydney, Australia, November 30 - December 4, 1998.
164. Agbinya, J.I., Devlin, J.C., Tirkel, A.Z., and Osborne, C., "Radar detection of buried defects in dielectric materials", Proceedings of ASIA PACIFIC MICROWAVE CONFERENCE-1992, 11-13 August 1992, Adelaide, Australia, pp. 265 - 268.

165. Agbinya, J.I., Devlin, J.C., Tirkel, A.Z., and Osborne, C., "Detection of internal defects by microwave time delay spectroscopy", Proceedings of the 22nd EUROPEAN MICROWAVE CONFERENCE'92, Helsinki, Finland, 24-27th August, 1992, pp. 1246 - 1250. Citations (1)
166. Agbinya, J.I., Devlin, J.C., Tirkel, A.A., and Osborne, C. "Simulation, hardware design and signal processing of an FMCW radar for buried objects" Part 1: Design and Simulation. Part II: Signal Processing. Abstracts Joint IEEE/URSI meeting of IGARSS'91, June 3 - 6, Helsinki University of Technology, Espoo, Helsinki, Finland, pp. 133-134. 1991.
167. Agbinya, J.I., Devlin, J.C., Tirkel, A.A. and Osborne, C., "Design, simulation and Signal processing of an FMCW radar for buried objects." Part I: Simulation and Design Part II: Signal Processing". Proc. Progress in Electromagnetic Research Symposium, (PIERS), Massachusetts (USA), July 1-6, p. 656, 1991.
168. Tirkel, A.Z., Osborne C. F., and Agbinya, J.I., "High resolution polarimetric FMCW radar", Proc. IGARSS '93, Kogakuin University, Tokyo, Japan, August 18 - 21, 1993.
169. Agbinya, J.I. and Devlin, J.C, "Three Dimensional Imaging of Buried Objects Using FMCW Radar", Progress In Electromagnetic Research Symposium (PIERS), California Instituted of Tech., USA, July 12 - 16, 1993.
170. Agbinya, J.I., Wireless Mobile Communication Models for Rural Environments (Proceedings, First African Conference on Technology and Innovation, Abuja, Nigeria, December 2001).
171. Agbinya, J.I., Igwe, G.A., and Aborhey, "Induced rail line vibration monitoring, analysis and modelling", Proc. of First Uniben Conference on Engineering and Technological Development, Sept. 1987, pp. 128-133.
172. Agbinya, J.I., "Generalised running DHT and real-time DHT analysers", Proc. ICASSP'94, 1994 International Conference on Acoustics, Speech and Signal Processing, vol. 3, Adelaide, South Australia, 1994, pp. 597-600.
173. Agbinya, J.I. and McLean, D.J., "Low complexity digital filter structures and characteristics using orthogonal transforms", Proc. 1994 IEEE Singapore International Conference on Communications Systems, Singapore, November 14 - 18, 1994, vol. 2, pp. 825-829.
174. Agbinya, J.I. "A class of recursive DCT and DST prefilters", Proc. IEEE Visual Signal Processing and Communications Workshop, Melbourne, 21-22 September 1993, pp. 109 - 112.
175. Agbinya, J.I., Construction of translet-based transforms, (Proceedings, First African Conference on Technology and Innovation, Abuja, Nigeria, December 2001)
176. Agbinya, J.I. "Internet Connections In Nigeria: A Requirement for Information On Demand", Proc. The Nigerian Internet Group (NIG) Workshop, Lagos, Nigeria, March, 1995. Also in Africa Journal of Literary studies 1995.
177. Agbinya, J.I. "Internet Growth and Data Trends In Wide - Area Connections", Proc. The Nigerian Internet Group (NIG) Workshop, Lagos, Nigeria, September 6 - 7, 1995.
178. Agbinya, J.I. "Internet Access, Ethical and Legal Issues: The Nigerian Context", Proc. The Nigerian Internet Group (NIG) Workshop, Lagos, Nigeria, September 6 - 7, 1995.

179. Odeh I., J Agbinya, A. Nwankwoala, "On the Internet, Informatics and the Global Academic Community", Proc. The Nigerian Internet Group (NIG) Workshop, Lagos, Nigeria, September 6 - 7, 1995.
180. Agbinya, J.I., "Information Economy: Principles, Policy and Practice", Presented at the National Workshop On Information and Communications Infrastructures, Policy, Plans and Strategies; International Conference Centre, Abuja, March 28 - 30, 2000.
181. Agbinya, J.I., Awoseyi, P.A., Oyejobi, F., Etukudo, B., Nta, P., Ogunbona, P., Ityokumbul, M.T., Labisi, T., and Ogbonnaya, F., "Design of the Nigerian Internet Backbone", Proceedings ON-LINE SERVICES'96, NIG National Workshop on Internet, May 1996, pp. 18-30.
182. Agbinya, J.I. and McLean, D.J., "Generalized short-time Hartley transforms for speech processing", Proc. 1994 IEEE Singapore International Conference on Communications Systems, Singapore, November 14 - 18, 1994, vol. 3, pp. 893-896.
183. Agbinya, J.I., "Wind energy potential for Nigeria" Proceedings Nigerian Society of Engineers International Conference, Dec. 1988, pp. 30 - 36.
184. Agbinya, J.I., Chao, R., Choi, Y., McLean, D., and Jones, H., "Improved Variable Bit Rate Crasys-Coder", Proc. Sixth International Conference on Signal Processing Applications and Technology, Boston, MA, USA, October 23 - 27, 1995, pp. 1846 - 1849.
185. 169. Agbinya, J I., "Fast computation of orthogonal transforms using sparse mixed kernels", ISSPA 96, The Gold Coast, Queensland, Australia, 1996, pp. 672-675.
186. Agbinya, J I., "Fast and accurate computation of the discrete cosine transform.... ISSPA 96, The Gold Coast, Queensland, Australia, 1996, pp. 676-679
187. McLean, D J., Agbinya, J.I., Rongyu Chao, J Cannon, Youngkyu Choi, and H Jones, "Which Entropy Coder", ISSPA 96, The Gold Coast, Queensland, Australia, 1996, pp. 499-500.
188. Cristian Bruteanu and J I Agbinya, " A new method for fast Continuous Wavelet Transform Computation", ISSPA 96, The Gold Coast, Queensland, Australia, 1996, pp. 750-751.
189. Agbinya, J I., "Discrete Wavelet Transform Techniques in Speech Processing, TENCON'96, Perth Western Australia, 1996

2.5 Classified Research Outputs @ CSIRO

1. Agbinya, J.I., "Changes made to the KFACadpcm Coder", Confidential Report, CSIRO Division of Radiophysics, Marsfield, P O Box 76, Epping NSW 2121, Australia 11th July 1994.
2. Agbinya, J.I. Introduction to the (CR)2ASys speech coder, Manual to the speech coder delivered to NR Engineering, Cooperative Research Centre for Robust and Adaptive Systems November 22nd, 1994.
3. McLean, D., Agbinya, J., Chao, R., Choi, Y., and Jones, H., (CR)2ASys Speech Coder User's Manual, Cooperative Research Centre for Robust and Adaptive Systems, 8th May 1994.
4. Agbinya, J.I., Wavelets in Speech and Audio Processing, Technical Report: TR95-1, Confidential Report, CSIRO Division of Radiophysics, Marsfield, P O Box 76, Epping NSW 2121, Australia, March 8th 1995.

5. Agbinya, J.I., "Characteristics of Mixed Transforms and Their Applications", Confidential report, CSIRO Division of Radiophysics, Marsfield, P O Box 76, Epping NSW 2121, Australia, October 10, 1995.
6. Agbinya, J.I., "MOS Tests For the CRASYS Coder", Confidential Report, CSIRO Division of Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, October 20, 1996.
7. Agbinya, J.I., "A Wavelet Transform Based Speech Coder Demonstrator: ANSI C and Matlab Versions", Confidential Report, CSIRO Division of Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, October 28 1996.
8. Agbinya, J.I., and Rees, D., "Sports HighLighter", Confidential Laboratory File Notes (MIDAS), CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, April 23 1997.
9. Agbinya, J.I., "Zone Selector For Backprojection Images", Confidential Laboratory File Notes (MIDAS), CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, July 3 1997
10. Agbinya, J.I., and Stone, N., "Adaptive Backprojection of Video Sequences", Confidential Laboratory File Notes (MIDAS), CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, July 15, 1997.
11. Agbinya, J.I., "Blob Detector For Backprojection Video Sequences", Confidential Laboratory File Notes (MIDAS), CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, August 1 1997
12. Rees, D., Agbinya, J.I., and Stone, N. "EVE (Electronic Video Eyes", Confidential Laboratory Project Report (MIDAS), CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, August 21 1997.
13. Agbinya, J.I., "Video Object Segmentation and Background Modelling", Confidential Research File Note No. SV99-4, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Wednesday September 23, 1999.
14. Agbinya, J.I., "Implementation of Automatic Human Face Tracking in FIAC", Confidential Research File Note No. JIA-SQIS-FIAC/1, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, October 15, 1998.
15. Steve Brown, Johnson Agbinya and David Rees, "Image segmentation for the document compression demonstrator", Confidential Research File Note No. SB#2, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, September 24, 1998.
16. Agbinya, J.I., "Automatic Image and text Separation From Digital Documents", Confidential Research File Note, MIDAS Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, September 8, 1998.
17. Agbinya, J.I., "Multi-Objects Tracking Per Second?", Confidential Research File Note, MIDAS Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, May 14, 1998.

18. Agbinya, J.I., "Effect of Adaptive Binarisation In Segmenting Images >From Digital Documents", Confidential Research File Note No. JIA-DDT3, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, March 18, 1998.
19. Agbinya, J.I., "Real-Time Gesture Control", Confidential Laboratory Project Report No. DDT99-6, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, June 15, 1999.
20. Agbinya, J.I., "Project Ideas", Confidential Laboratory Research File Note No. FIACJIA99-2, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Wednesday, 24 February 1999.
21. Agbinya, J.I., "Planar Mosaic of Images", Conf. Project Report No. DDT99-1, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, March 4, 1999.
22. Agbinya, J.I., "Face and Hand Segmentation Using HSV", Confidential Research File Note No. DDT99-4, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Friday April 30, 1999.
23. Agbinya, J.I., "Gesture Segmentation By Subtracting A Virtual Background", Confidential Research File Note No. DDT99-2, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, March 18, 1999.
24. Jiaming Li and Johnson Agbinya, "Standard Databases and test Procedures for Eye Finder Testing", Confidential Research File Note SQIS Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, August 11, 1999.
25. Jiaming Li and Johnson Agbinya, "Standard Databases and test Procedures for Eye Finder Testing", Confidential Research File Note SQIS Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, August 20, 1999.
26. Jiaming Li and Johnson Agbinya, "Current Eye Finder Performance", Confidential Research File Note SQIS Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, August 24, 1999.
27. Jiaming Li and Johnson Agbinya, "Current Eye Finder Performance", Confidential Research File Note SQIS Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, September 2, 1999.
28. Johnson I Agbinya, "Read Your Palms: Palm Shape Models", Confidential Research File Note No. SV99-1, Smart Vision Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Wednesday July 9, 1999.
29. Johnson I Agbinya, "A Review of Intelligent Environments", Confidential Research File Note No. SV99-2, Smart Vision Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Wednesday July 21, 1999.
30. Agbinya, J.I., "Room Environment Modelling Using Gradient Vector Flow Field", Confidential Research File Note No. SV99-3, Smart Vision Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Wednesday September 22, 1999.
31. Johnson I Agbinya, "Video Object Segmentation and Background Modelling", Confidential Research File Note No. SV99-4, Smart Vision Project, CSIRO Telecommunications and

Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Thursday September 23, 1999.

32. Johnson I Agbinya, "Gaussian Mixture Modelling of Backgrounds ", Confidential Research File Note No. SV2000-1, Smart Vision Project, CSIRO Telecommunications and Industrial Physics, Marsfield, P O Box 76, Epping NSW 2121, Australia, Friday March 10, 2000.

2.6 Keynote Addresses, Tutorials and short courses/training programs

- 1) Chief Guest, IEEE ICEICM 2021, Reva University, Bengaluru, India
- 2) Internet and IP communications
- 3) 4G and Next generation networks
- 4) Planning, Dimensioning and Optimisation of WiMAX and LTE Networks, SETIT 2011;
- 5) Cloaking and Invisibility, International Conference on Mechatronics, Kuala Lumpur, May 2011
- 6) Voice Over IP (VoIP) on contract (IIR Training and ICTe Africa 2006, 2007, 2008)
- 7) Mobile Communication Networks (GSM, UMTS, GPRS, HSDPA and Wireless LAN)
- 8) Interconnectivity regulation, pricing and practice
- 9) National Telecommunication Regulatory policy advice and training
- 10) ICT National Policies (Sole International Expert on creating Nigeria's National ICT Policy in 2000 – NITDA)
- 11) Founder, Pan African Conference on Science, Computing and Telecommunications (PACT); <http://www.ib2com.org/PACT>

2.7 Facilitation of conferences workshops/seminars

- 1) Founder (Pan African Conference on Science, Computing and Telecommunications: PACT 2013-2023)
- 2) Founder (IB2COM 2008 – 2014)
- 3) Founder (Auswireless and BroadCom, 2006 – 2009)
- 4) Founder (IB2Com, 2010)
- 5) Conference Chair (Auswireless and BroadCom, 2006 – 2009)
- 6) Conference Chair (IB2Com, 2010)
- 7) TPC Member ATNAC 2011, Melbourne Australia
- 8) TPC Member ITU Kaleidoscope, South Africa, 2011
- 9) International Advisory Committee for International Conference on Mechatronics, Kuala Lumpur, May 2011
- 10) TPC Member SETIT (Science of Electronics, Technologies of Information and Telecommunications), October, 2011 Tunisia

2.8 Technologies Developed and in Commercial Application

- 1) Sentiment Analysis in Social Networks (2021)
- 2) Virtual Doctor (2020 – 2021, to be deployed)
- 3) Modulation Schemes for NFC (patent pending, 2021)
- 4) Short range communication transceivers (2016)
- 5) FunRich Software (<http://www.funrich.org>) [software for cancer cell networks study \(2015\)](#)
- 6) FPGA implementation of inductive communication systems (2013-2015)
- 7) Multimedia architecture for Ericsson's IMS with UNSW (Vodafone Australia);

- 8) Personal area network nodes based on Spartan FPGA (UTS);
- 9) data transcoding for 3G networks (Vodafone Australia)
- 10) Face recognition system and digital identity management system for secure online transactions (CSIRO);
- 11) CRASys Speech Compression System (CSIRO);