

Publications

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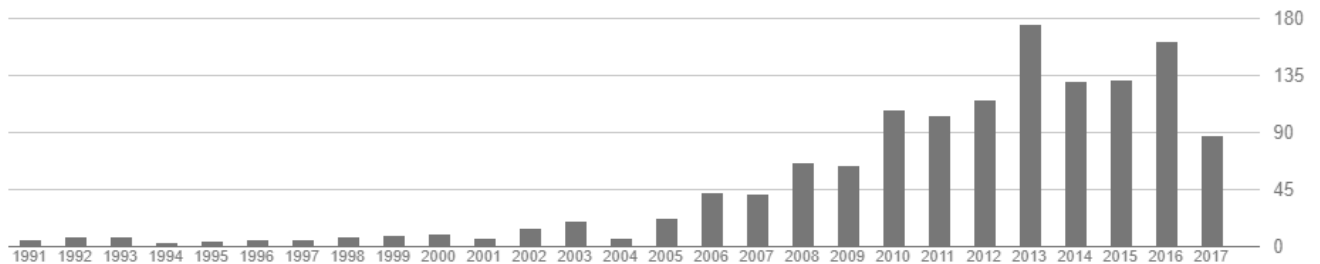
1 Selected Publications

ResearchGate Ranking: 24.92 (as at June 26, 2017)

Google Citation indices

	All	Since 2012
Citations	1361	801
h-index	18	16
i10-index	32	22

Citations per year



1.1 Books

1.1.1 Coming Titles – To be Published

New accepted book proposals in writing for publication by River Publishers (Denmark) are in preparation with joint authors from the School of Information Technology and Engineering including:

1. A/Prof Johnson I Agbinya, Dr Khandakar Ahmed (VU, former MIT staff), Dr Moutaz Alazab (former MIT staff), Shiva Pokhrel (MIT casual staff) and Dr Khalid Aboura (Dammam University, Saudi Arabia). **Cyber Security**, River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, ISBN:, Publication date July 2018
2. A/Prof Johnson I Agbinya, Dr Khandakar Ahmed (VU, former MIT staff), Dr Khalid Aboura (Dammam University, Saudi Arabia), Dr Moutaz Alazab (former MIT staff), Shiva Pokhrel (MIT casual staff), **Applied Big Data Analytics**, River Publishers Denmark, PO Box 1657, Aalborg Postkontor, Algade 42, 9000 Aalborg, Denmark, ISBN:, Publication date July 2018

1.1.2 Books (In Print)

1. 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)
2. 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)

3. (Book) 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
4. (Book) 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
5. (Book) 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)
6. 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
7. 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
8. (Book) 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)
9. 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)
10. 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)

1.2 Articles in Accredited Journals/Book Chapters

1. Dennis L Owuor, Okuthe P Kogeda and 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. 555 - 563
2. Johevajile K. Mazima, Johnson I Agbinya, Shubi F. Kajjage and Emmanuel Manasseh. "An Overview of Electromagnetic Field Interaction with Grain Crops", International Journal of Computer Science and Information Security, Thompson Reuters, March 2016
3. Johevajile K. Mazima, Johnson I Agbinya, Shubi F. Kajjage and Emmanuel Manasseh , "Stochastic Modeling Technology for Grain Crops Storage Application: Review", International Journal of Artificial Intelligence and Applications (IJAIA), Vol. 7, No. 6, November 2016, pp. 27-42
4. Hoang Nguyen and Johnson I Agbinya, "Splitting Frequency Diversity in Wireless Power Transmission", IEEE Transactions on Power Electronics", 2015 (A*, IF 5.726)
5. Hoa Doan Thanh and Johnson I Agbinya, "OFDM Scheme for Data Transmission over Inductive Channels", to appear in *Wireless Personal Communications, 2015*
6. 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: 2.303); January, 2015, pp. 302 - 310.
7. 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, Vol. 15, Issue 15, 2015 (A Journal, IF 3.973)
8. Michael Oche, Rafidaj MD Noor and Johnson I Agbinya, "Network Centric QoS Evaluation of IPTV Transmission Quality over VANETs", Computer Communications, Elsevier, December, 2014
9. Agbinya JI 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: 3.432), July 2014; <http://dx.doi.org/10.1016/j.ijepes.2014.06.071>
10. J. I. Agbinya, "A magneto-inductive link budget for wireless power transfer and inductive communication systems," *Progress In Electromagnetic Research C*, Vol. 37, 15-28, 2013; <http://www.jpier.org/pierc/pier.php?paper=12120511>
11. J. I. Agbinya, "Investigation of near field inductive communication system models, channels and experiments," *Progress In Electromagnetics Research B*, Vol. 49, 129-153, 2013. <http://www.jpier.org/pierb/pier.php?paper=12120512>
12. Agbinya JI, 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>
13. 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](https://doi.org/10.2478/orga-2014-0008), May 2014
14. 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](https://doi.org/10.2478/eletel-2013-0022), July 2013

15. 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/lelel-2013-0030.
16. 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
17. 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
18. 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
19. 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.
20. Johnson I Agbinya, "Performance of Magnetic Induction Communication Systems Using Induction Factors", in *Wireless Personal Communications*, 2012, pp. 945 – 968.
21. 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
22. 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
23. 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
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25. 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
26. 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
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29. 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
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32. Umuhoza D, Agbinya JI; Vahed A & Moodley D, *Trust for Geospatial Web Services*", *WSEAS Transactions on Communications*; 2009
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34. 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
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37. Agbinya, JI., *Design Considerations of MoHotS and Wireless Chain Networks*", in *Wireless Personal Communications © Springer* 2006, Vol. 40, pp. 91 -106

38. 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;
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46. 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.*
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50. Agbinya, J.I., "Least-squares rail line vibration modelling and analysis," *Nigerian Journal of Engineering*, Feb. 1990.
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55. 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
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58. 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
59. 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
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61. 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
62. 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
63. 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

64. 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)
65. (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)
66. 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)
67. 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)

1.3 Papers in peer-reviewed conference proceedings

1. Johnson I Agbinya, Nagi F Ali Mohamed and Khalid Aboura, Models and Design of Cooperative Relaying in Inductive Communication Systems, to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
2. Nagi F Ali Mohamed, Johnson I Agbinya and Khalid Aboura, "Study of Conical-Coil Transmitters and Near-Field Communications", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
3. Atika Malik Hussein and Johnson I Agbinya, "Development of Wireless Sensor Network for Water Quality Measurement and Monitoring in African Countries", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
4. Atika Malik Hussein and Johnson I Agbinya, "Multilayer Perceptron for Hepatitis Diagnosis using Weka Tool", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
5. Nahla F Osman and Johnson I Agbinya, "A Survey Of Small Cryptographic Algorithm For IoT", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
6. Wiam A Elyass Elmali and Johnson I Agbinya, "Secure 6LOWPAN Network for Smart Buildings", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
7. Shaza Abuelghasim and Johnson I Agbinya, "Investigation of the Biometric Radio Frequency Signal Response and Recognition of Human Ear", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
8. Wahbi Abdellah Elamin and Johnson I Agbinya, "Modelling of Angular Inter-Beam Handover in Fifth Generation Mobile Communication Networks", to appear in Proc. Of 29th International Conference on Systems Research, Informatics and Cybernetics – InterSymp 2017, Baden-Baden Germany, July 31 – August 4, 2017
9. 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
10. 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.
11. 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)
12. Agbinya JI, "Nature Inspired Antenna Arrays, in Proc. PACT 2015, Kampala Uganda, July 27-29: pp. 17 – 22
13. 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
14. 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
15. 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
16. 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
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18. 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
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22. 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
23. 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
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25. 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
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27. 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
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31. 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
32. 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.
33. Agbinya, J.I., Cloaking and Anti-Cloaking (Keynote Address), IEEE International Conference on Mechatronics and, Kuala Lumpur, Malaysia, May 17 – 19, 2011.
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