

Personal Information:

Name: AROGUNDADE Oluwasefunmi Tale

Date of Birth: 11 th January, 1973.

Place of Birth: Ado Ekiti, Ekiti State, Nigeria

Sex: Female

Marital Status: Married

Nationality: Nigerian

Contact Address: Department of Computer Science, College of Physical Sciences, Federal University of Agriculture, Abeokuta, (FUNAAB), Nigeria.

(iv) Department: Computer Science

(v) E-mail Address: arogundadeot@funaab.edu.ng

(vi) Phone Number: +234-8183604147

(vii) Rank: Professor

(viii) Designation: Professor

(ix) ResearchgateAddress:

<https://www.researchgate.net/profile/Oluwasefunmi-Arogundade>

(x) LinkedInAddress: <https://www.linkedin.com/in/roelaw99/>

(xi) GoogleScholar

Profile: <https://scholar.google.com/citations?hl=en&user=ifNI4XwAAAAJ>

(xii) ORCID Number: <https://orcid.org/0000-0001-9338-491X>

(xiii) Qualification: Ph.D

(xiv) Membership of Professional Bodies:

1. Association for Computing Machinery (ACM) Membership No: 8820679

2. International Association of Engineers (IAENG) Membership No:104134

3. Organisation for Women in Science for the Developing World (OWSD)

Membership No.: 4202

4. Working Group on Automated Time Tabling (WATT)

5. International Federation of University Women (IFUW) Membership No: 679

6. ITHEA International Scientific Society (ISS)

7. Institute of Electrical, Electronics Engineers (IEEE) Membership No:

92666467

8. Computer Professional of Nigeria (CPN) Membership No: 004006/2013

(xv) Award Received:

1. CO-PI Indoor Radon Concentration at the Federal University of Agriculture

Abeokuta: Data collection, Validation, Modeling, Prediction and

Implementation. Funded by IBR Tetfund Research Grant 2022.

2. Co-Lead, A Mobile based supporting Tool for weight determination and

equalization in animal Experiment. funded by IBR Tetfund Research Grant

2022.

3. PI, Pushing for Modern Disruptive Innovation in

Aquaculture Monitoring and Controlling System Using IoT

and Cloud Analytics funded by NRF-TETFund 2020

4. Co-PI, A Micro service-Based Social Media Centric Instant Messaging

Mobile Application (SCIMMA) for Library Services Delivery funded by IBR

Tetfund Research Grant 2020.

5. PI, Deployment of Intelligent Animal Tracking System for Pasture and Range

Management sponsored by AlumNode Research Grant, Germany 2019.

6. Alumnus, Heidelberg Laureate Forum (HLF), Germany

7. PI, A mobile Intelligent Animal Tracking System funded by IBR Tetfund

Research Grant 2016.

8. Tertiary Education Trust fund (TETFund) Conference attendance Grant 2014.

9. TWAS-DFG Cooperation Research Postdoctoral fellowship, Technical

University, Dortmund Germany. 2013/2014

10. PhD Fellow, Organisation for Women in Science for the Developing World

(OWSD) 2009-2012.

11. Travel Grant for the Power of Excellence in Science – Enhancing Academic Capacities in Africa. Alexander Von Humboldt Colloquium Nairobi, Kenya, 6 - 8 March 2014.
12. Travel Grant for American Association for the Advancement of Science – The World Academy of Science (AAAS-TWAS) Summer Course on Science and Diplomacy, 8-13 June 2014, Trieste, Italy.
13. Travel grant for 3 rd Heidelberg Laureate Forum (HLF), 23 rd -28 th August, 2015. Heidelberg Germany.
14. Travel grant training Workshop on Technopreneuership for South Countries, 5-9 October 2015. Kuala Lumpur, Malaysia.
15. Ida Smedley Maclean Award for Post graduate Study, funded by International Federation of University Women (IFUW) 2011-2012
16. Co-PI, Impact of Public Access ICT across Cultures funded by Amy Mahan Research Grant and Fellowship 2010-2011.
17. Association for Computing Machinery-Women (ACM-W) Conference attendance grant 2009
18. Federal Government Scholarship for Postgraduate Students (2001/2002) Session

(xvi) Research Conducted:

1. A Mobile based supporting Tool for weight determination and equalization in animal Experiment.
2. Pushing for Modern Disruptive Innovation in Aquaculture Monitoring and Controlling System Using IoT and Cloud Analytics
3. A Micro service-Based Social Media Centric Instant Messaging Mobile Application (SCIMMA) for Library Services Delivery.
4. Deployment of Intelligent Animal Tracking System for Pasture and Range Management.

5. Development of Modelling Language for Software Systems Safety, Compliance and Security.

6. Resolving the gap between ICT potentials and the realization (ICT4Development)

(xvii) Conference Attended:

1. System Specification And Model Checking Organized By International Institute For Software Technology, United Nations University, Macao, China. Held At University Of Lagos, Nigeria. July, 2007.

2. Object Oriented Software Development With UML Organized by International Institute Of Software Technology, United Nations University, Macao, China. Held at Obafemi Awolowo University Ile-Ife. May, 2007.

3. Formal modelling And Verification Organized by International Institute of Software Technology, United Nations University, Macao, China. Held At Obafemi Awolowo University Ile-Ife. May, 2007.

4. Sensitization Seminar on the Relevance of GIS in Research. Organised by the GIS unit, Research and Development Centre, University of Agriculture, Abeokuta. 26 th November, 2008.

5. The Power of Excellence in Science – Enhancing Academic Capacities in Africa. Alexander Von Humboldt Colloquium Nairobi, Kenya, 6 - 8 March 2014.

6. American Association for the Advancement of Science – The World Academy of Science (AAAS-TWAS) Summer Course on Science and Diplomacy, 8-13 June 2014, Trieste, Italy.

7. 3 rd Heidelberg Laureate Forum (HLF), 23 rd -28 th August, 2015. Heidelberg Germany.

8. Training Workshop on Technopreneuership for South Countries, 5-9 October 2015. Kuala Lumpur, Malaysia.

(xviii) Publications:

1. Akinwale A. T., O.J. Adeniran & Arogundade O.'T (2003). Exploiting

semantic schema model for interactive query transformation using mix fix function. ASSET Journal, 2 (1):73 – 82. Federal University of Agriculture, Abeokuta.

2. Arogundade O.'T. & Akinwale A. T (2007) The use of conceptual query processing in live- stock management system Asian journal of information Technology, 6: 170 – 176.

3. Akinwale, A. T., Arogundade O.'T., & Adekoya, A. F. (2009): Translated Nigeria Stock Market Reports using Artificial Neural Network for effective prediction. Journal of Theoretical and Applied Information Technology, 9 (1); 36-43.

4. Arogundade O.'T Akinwale, A.T., Adekoya A.F. & Awe O.G (2009): A 0-1 Model for Fire and Emergency Service Facility Location Selection: A Case Study in Nigeria. Journal of Theoretical and Applied Information Technology, 9 (1): 50-59.

5. A.T. Akinwale, Arogundade O.'T & H. Obianugha (2009). A Way Forward to Improving Functionalities of Open Database System, Journal of Theoretical and Applied Information Technology, 7(1): 001-007.

6. Arogundade O.'T, Adewumi Adediran & Ikotun A. Motunrayo (2010): A Proposed Usage-Centered Model for a Web Based Application: Digital Library. CiiT International Journal of Software Engineering and Technology, 2(10); 270-274. Coimbatore Institute of Information Technology, India. Available at <http://www.ciitresearch.org/seoctober2010.html>

7. Arogundade O.'T & Akinwale Adio Taofiki (2010): Usage-centered Software Engineering: An Approach to Developing Business Information System. International journal of research and reviews in Applied Sciences 2 (3); 306-315.

8. Arogundade O.'T, Ikotun A.Motunrayo, Akinwale A. Taofik & Ogunnowo

Olubunmi (2011): Optimizing Deployment Scheme System Using the Concept of Bin Packing Algorithm CiiT International Journal of Software Engineering and Technology 3(1); 1-8. Coimbatore Institute of Information Technology, India. Available at <http://www.ciitresearch.org/sejanuary2011.html>

9. Arogundade O.'T Akinwale, A. T., Jin, Z., & Yang, X. G. (2011): A Unified Use-Misuse Case Model for Capturing and Analyzing Safety and Security Requirements. International Journal of Information Security and Privacy (IJISP), 5(4), 8-30. An Official Publication of the Information Resources Management Association, USA. Available at <https://doi:10.4018/jisp.2011100102>

10. Arogundade O.'T., A.T. Akinwale., Z. Jin & X.G. Yang (2012): Towards an Ontological Approach to Information System Security and Safety Requirement Modelling and Reuse. Information Security Journal: A Global Perspective. 21(3); 137-149, Taylor and Francis, USA. Available at DOI:10.1080/19393555.2011.652290.

11. Arogundade, O.'T., Jin, Z. & Yang, X. (2014) 'Towards Ontological Approach to Eliciting Risk-based Security Requirements', International Journal of Information and Computer Security, 6 (2); pp.143–178. DOI: 10.1504/IJICS.2014.065168 Published by Inderscience, UK.

12. Arogundade O.'T., O. Olayiwola, Shang Wei, A.H. Bodunde & O.D. Aborisade (2015): Enhanced Theory of Reasoned Action (TRA) Model for Investigating Computer Users' Intention to Purchase Full Antivirus Software after a Free Trial. Afr J. of Comp & ICTs. 8(2). Pp 93-106. IEEE Nigeria Chapter.

13. Arogundade O.'T., F.S. Osholake, O.D. Aborisade & O. Olayiwola (2015): An Exploratory Study of the Risks and Motivating Factors of ICT Abuse among Students of Tertiary Institutions in Nigeria. Afr J. of Comp & ICTs.

Vol 8, No. 3. Pp 209-218. IEEE Nigeria Chapter.

14. A.M. Ikotun, A.T.Akinwale & Arogundade O.'T. (2016) Parameter Variation for Linear Equation Solver Using Genetic Algorithm. Journal of Natural Sciences, Engineering and Technology, 15(2). Federal University of Agriculture, Abeokuta.

15. Arogundade O.'T., A.O. Adejimi, A.M. Mustapha, A.M. Ikotun & S. Akinwale (2016) Investigation of Factors Affecting Cloud Computing Adoption in Nigeria. Journal of Natural Sciences, Engineering and Technology, 15(2). Federal University of Agriculture, Abeokuta.

16. Arogundade O.'T., O. Mustapha, A.M. Ikotun & A.O. Adejimi (2016) An Enhanced Technology Acceptance Model to Measure Customers Willingness to Pay More for Secure Software Development. Journal of Natural Sciences, Engineering and Technology, 15(2). Federal University of Agriculture, Abeokuta.

17. Arogundade O.'T., H. K. Adubiagbe, B. A. Ojokoh & A.M. Mustapha (2016): Design and Validation of E-Motoring Services Model. FUTA Journal of Research in Sciences, 12 (2), 307 - 324. Federal University of Technology Akure, Nigeria.

18. Arogundade O.'T. , Adeniran, O., Jin, Z., & Xiaoguang, Y. (2016). Towards Ontological Approach to Security Risk Analysis of Information System: Model and Architecture. International Journal of Secure Software Engineering (IJSSE), 7(3), Pp 1-25. doi:10.4018/IJSSE.2016070101

19. Mustapha, A.M., Arogundade, O.T., Vincent, O.R. & Adeniran O.J. (2018): Towards a compliance requirement management for SMSEs: a model and architecture. Information System and E-Business Management (16), <https://doi:10.1007/s10257-017-0354-y> . Published by Springer.

20. Arogundade O. T., Ogunyinka B. A., Mustapha A.M. & Asahiah F. O. (2018) A Validated Model For secured E-Government Services: A Case Study of Civil Status and Rights, Ife Journal of Science and Technology

(IJoST), Vol. 2 No. 1 PP. 92-112.

21. Arogundade O.'T., A, Abayomi-Alli, I. Fatoye, C.O. Adejuyigbe and V.I.O Olowe (2018) Development of an android based mobile application for the production and management of organic manure (MoAPOM). Journal of Organic Agriculture and Environment JOAEN Vol. 6 ISSN 2437-2021.

22. Abayomi-Alli A., Arogundade O. T., Abayomi-Alli O.O., Oyemade S.V. and Sijuade A. A. and (2018), Automated Detection of Solanum Lycopersicum (Tomato) Sizes Using Image Processing Technique, Published by Nigerian

Association of Mathematical Physics (NAMPA), 45(1):357-368.ISSN: 1116-4336.

23. Abayomi-Alli A., Arogundade O. T., Abayomi-Alli O. O., Adisa A. and Akingboye A. Y. (2018), Decision Support System for Automatic Crop Fertilization Using Bag of Visual Words (Bows) Technique, Published by Nigerian Association of Mathematical Physics (NAMPA), 45(1):221-230. ISSN: 1116-4336.

24. Arogundade O. T., Owoade U. A., Mustapha A.M., Ikotun M.A. (2019), Design and Implementation of Mobile Application for Herbal Medicine Prescription for Obstetrics and Gynaecology Problems. Covenant University Journal of Informatics & Communication Technology. Vol. 7 No. 1. Pp 1-17.

25. Fadahunsi I.G., Arogundade O. T., Sodiya A. S., Olajuwon B. I. (2019) Towards a UMLsec-based Proctored Examination Model,&quot; International Journal of Systems and Software Security and Protection (IJSSSP) 10 (2) pp. 44-67. DOI: 10.4018/IJSSSP.2019070103

26. Arogundade, O.T., Abioye, T.E. and Sanjay, M. (2020) An ontological approach to threats pattern collection and classification: a preliminary study to security management. International Journal of Electronic Security and Digital Forensics, Vol. 12, No. 3, pp.323–335.



DOI: 10.1504/IJESDF.2020.10029585

27. Arogundade, O.T., Abayomi-Alli, A. and Misra, S. (2020) An Ontology-Based Security Risk Management Model for Information Systems. *Arabian Journal of Science and Engineering*. Vol. 45, pp. 6183–6198.

<https://doi.org/10.1007/s13369-020-04524-4> Published by Springer.

28. Mustapha, A.M., Arogundade, O.T., Misra, S., Robertas Damasevicius & Rytis Maskeliunas (2020) A systematic review on compliance requirements management of business processes. *International Journal of System Assurance Engineering and Management*. 11(3), 561 – 576.

<https://doi.org/10.1007/s13198-020-00985-w> Published by Springer.

29. Arogundade O.T, Misra S., Abayomi-Alli O.O, & Fernandez-Sanz L. (2020) Enhancing Misuse Cases with Risk Analysis for Safety Requirements. *IEEE Access Journal* 8, 12001-12014. DOI 10.1109/ACCESS.2019.2963673

30. Arogundade, O. T., Ojokoh, B., Asogbon, M. G., Samuel, O. W., & Babatope Sunday Adeniyi, (2020). Fuzzy Driven Decision Support System for Enhanced Employee Performance Appraisal. *International Journal of Human Capital and Information Technology Professionals (IJHCITP)*, 11(1), 17-30. doi:10.4018/IJHCITP.2020010102

31. Abioye T.E, Arogundade O.T., Misra S., Akinwale A.T, & Adeniran O.J. (2020) Toward Ontology -based Risk Management Framework for Software Project: An Empirical Study. *Journal of Software: Evolution and Processes*, e2269: <https://doi.org/10.1002/smr2269> Published by Wiley.

32. Arogundade O.T., Sanjay M., Odusami M., Adelaja E. & Abayomi-alli O. (2020): An Algorithm-Centric Approach to Enhance Business Process Compliance Management. *International Journal of Engineering Research in Africa*. ISSN: 1663-4144, Vol. 50, pp 15-28

doi:10.4028/www.scientific.net/JERA.50.15. Trans Tech Publications Ltd, Switzerland

33. Oluwasefunmi Tale Arogundade, Samuel Ibukun Olotu, Olusola Abayomi Alli, Sanjay Misra & Abiodun Motunrayo Ikotun (2020): A study of existing use case extensions and experience: a systematic review, International Journal of Computer Mathematics: Computer Systems Theory, DOI: 10.1080/23799927.2020.1815856.
34. \*Arogundade, O. T., Akinola, O.S., Balogun, M., Abayomi-Alli, A.A., Ikotun, A.M., Fadahunsi, I.G. and Abioye, T.E. (2021) 'A mobile application as a supporting tool for weight equalisation in animal experiments', Int. J. Sustainable Agricultural Management and Informatics, Vol. 7, No. 1, pp.44–66. DOI: 10.1504/IJSAMI.2021.10035209
35. \*Abayomi-Alli, A. A., Arogundade, O. & Misra, S., Akala, M. O., Ikotun, A. M., & Ojokoh, B. A. (2021). An Ontology-Based Information Extraction System for Organic Farming. International Journal on Semantic Web and Information Systems (IJSWIS), 17(2), 79-99. doi:10.4018/IJSWIS.2021040105
36. \* Abioye, T.E., Arogundade, O.T., Misra, S., Adesemowo, K., Damaševičius, R. Cloud-based business process security risk management: A systematic review, taxonomy, and future directions Computers, 2021, 10(12), 160
37. \* Agbaegbu, J., Arogundade, O.T., Misra, S., Damaševičius, R. Ontologies in cloud computing—review and future directions Future Internet, 2021, 13(12), 302
38. \* Olaleye, T., Abayomi-Alli, A., Adesemowo, K., Arogundade O.T. Misra, S., Kose, U. (2022) SCLAVOEM: hyper parameter optimization approach to predictive modelling of COVID-19 infodemic tweets using smote and classifier vote ensemble. Soft Computing, Springer Verlag
39. \*Abayomi-Alli, A. A., Uzedu, F. O., Misra, S., Abayomi-Alli, O. O., & Arogundade, O. T. (2022). Hybrid Model of Genetic Algorithms and Tabu Search Memory for Nurse Scheduling Systems. International Journal of Service Science, Management, Engineering, and Technology (IJSSMET), 13(1), 1-20. <http://doi.org/10.4018/IJSSMET.297494>

40. \* Oyebiyi, O.G. , Abayomi-Alli, A. , Arogundade, O.T. , ... Imoize, A.L. , Awotunde, J.B. (2023) A Systematic Literature Review on Human Ear Biometrics: Approaches, Algorithms, and Trend in the Last Decade (Information Switzerland) , 2023, 14(3), 192
41. \* Olaleye, T.O. , Arogundade, O.T. , Misra, S. , Abayomi-Alli, A. , Kose, U. (2023)
42. Predictive Analytics and Software Defect Severity: A Systematic Review and Future Directions Scientific Programming 2023, 6221388
43. Francisco J. Proenza, Wei Shang, Guoxin Li, Jianbin Hao, Arogundade O.'T. & Martin Hagger (2015) Personal Objectives and the Impact of Internet Cafés in China. In Public Access ICT across Cultures, Francisco J. Proenza (ed.) pg. 59-145. Cambridge MA, Published by Massachute Institute of Technology Press Canada.
44. Arogundade O.T., Abioye E.T., Mustapha A.M., Ikotun A.M. & Aisaiah F. O. (2018) Specifying and Incorporating Compliance Requirements into Software Development Using UML and OCL in proceedings of 18 th International conference on Computational Science and Its Applications – ICCSA 2018, Lecture Notes in Computer Science book series (LNCS, volume 10960) Springer.
45. Alfa Ayegba Abraham, Ahmed K. B., Sanjay Misra, Arogundade O.T. & Ahuja R. (2019) Metaheuristic-based Intelligent Solutions searching Algorithms of Ant Colony Optimization and Backpropagation in Neural Networks. In Lecture Notes in Networks and Systems 121. P. K. Singh et al. (eds.), , [https://doi.org/10.1007/978-981-15-3369-3\\_8](https://doi.org/10.1007/978-981-15-3369-3_8) Published by Springer.
46. Arogundade O.T., Adebayo Abayomi-Alli , Kayode Adesemowo , Taiwo Bamigbade , Modupe Odusami & Victor Olowe (2020): An Intelligent Marketspace Mobile Application for Marketing Organic Products. In IFIP

International Federation for Information Processing. M. Hattingh et al. (Eds.): I3E 2020, LNCS Vol. 12066, 1–12, Nature Switzerland AG 2020: [https://doi.org/10.1007/978-3-030-44999-5\\_23](https://doi.org/10.1007/978-3-030-44999-5_23) Published by Springer

47. Olaleye T.O., Arogundade O.T., Abayomi-Alli A., Adesemowo A.K. (2021). An Ensemble Predictive Analytics of Covid-19 Infodemic Tweets Using Bag of Words, In Kose, U., Gupta, D. Hugo, V. de Albuquerque, C. & A. Khanna (Eds), Data science for COVID-19, Elsevier ISBN: 9780128245361.

48. Abayomi-Alli A. et al. (2021) A Mobile Based Market Information System. In: Misra R., Kesswani N., Rajarajan M., Bharadwaj V., Patel A. (eds) Internet of Things and Connected Technologies. ICloTCT 2020. Advances in Intelligent Systems and Computing, vol 1382. Springer, Cham. [https://doi.org/10.1007/978-3-030-76736-5\\_4](https://doi.org/10.1007/978-3-030-76736-5_4)

49. Adesemowo A.K., Abayomi-Alli A., Olabanjo O.O., Odusami M.O., Arogundade O.T., Abioye T.E. (2020) Harnessing the Potentials of Mobile Phone for Adoption and Promotion of Organic Farming Practices in Nigeria. In: Sharma S.K., Dwivedi Y.K., Metri B., Rana N.P. (eds) Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation. TDIT 2020. IFIP Advances in Information and Communication Technology, vol 618. Springer, Cham. [https://doi.org/10.1007/978-3-030-64861-9\\_16](https://doi.org/10.1007/978-3-030-64861-9_16) .

50. \*Adesemowo, A. K., & Arogundade, O. T. (2021). NreASAM: Towards an Ontology-Based Model for Authentication and Auto-Grading Online Submission of Psychomotor Assessments. In Daramola, O., & Moser, T. (Ed.), Advanced Concepts, Methods, and Applications in Semantic Computing (pp. 166-189). IGI Global. <http://doi:10.4018/978-1-7998-6697-8.ch009>

51. \*Olaleye T., Arogundade O., Adenusi C., Misra S., Bello A. (2021) Evaluation of Image Filtering Parameters for Plant Biometrics Improvement

Using Machine Learning. In: Patel K.K., Garg D., Patel A., Lingras P. (eds) Soft Computing and its Engineering Applications. icSoftComp 2020. Communications in Computer and Information Science, vol 1374. Springer, Singapore. [https://doi.org/10.1007/978-981-16-0708-0\\_25](https://doi.org/10.1007/978-981-16-0708-0_25) .

52. \*Arogundade O.T., Atasié C., Misra S., Sakpere A.B., Abayomi-Alli O.O., Adesemowo K.A. (2021) Improved Predictive System for Soil Test Fertility Performance Using Fuzzy Rule Approach. In: Patel K.K., Garg D., Patel A., Lingras P. (eds) Soft Computing and its Engineering Applications. icSoftComp 2020. Communications in Computer and Information Science, vol 1374. Springer, Singapore. [https://doi.org/10.1007/978-981-16-0708-0\\_21](https://doi.org/10.1007/978-981-16-0708-0_21)

53. \*Abraham Ayegba Alfa, Sanjay Misra, Adebayo Abayomi-Alli, Oluwasefunmi Arogundade, Oluranti Jonathan, Ravin Ahuja (2021) Comparative Analysis of Intelligent Solutions Searching Algorithms of Particle Swarm Optimization and Ant Colony Optimization for Artificial Neural Networks Target Dataset. In Book: Proceedings of Second International Conference on Computing, Communications, and Cyber-Security. 459-470. ISBN: 978-981-16-0732-5. DOI: 10.1007/978-981-16-0733-2\_32

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[https://doi.org/10.1007/978-981-16-0733-2\\_16](https://doi.org/10.1007/978-981-16-0733-2_16) .

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60. Akinwale A.T., Ibharalu F.T., & Arogundade O.'T. (2006). Comparative Analysis of Artificial Neural Networks Back Propagation Algorithm to Statistical Least Square Method in Security Prediction Using Nigerian Stock Exchange Market. Proceedings of the 2 nd Conference on Science and National Development, College of Natural Sciences (COLNAS), University

of Agriculture, Abeokuta Eromosele I.O and Popoola T.O.S (Eds.) 57-

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61. Arogundade O.'T., Akinwale A.T., Adekoya A.F. & Ladeinde A. (2008).

Simulation of National Income Accounting Using Information Technology.

Proceedings of the 22 nd National Conference of Nigeria Computer Society

(NCS), Folajimi Y.O. and Oyeyinka I.K. (Eds.) 267-270. Published by NCS.

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Implementation of a Web-based Tourism Information System. Proceedings of

the 22 nd National Conference of Nigeria Computer Society (NCS), Folajimi

Y.O. and Oyeyinka I.K. (Eds.) 263-266. Published by NCS.

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algorithm to a profit-oriented Transportation System in Rural areas of Nigeria.

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Use cases for Deployed Information System Security Threats Identification.

Proceedings of the 10 th International Conference on Perspectives in

Business Informatics Research (BIR), Laila N., Renate S., and Benkt

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