

PERSONAL DETAILS

Name : **Dr. S. MARIA CELESTIN VIGILA**
Associate Professor,
Department of Information Technology,
Noorul Islam Centre for Higher Education,
Kumaracoil - 629180.

Mobile : +91 9442150033

Email : celestinvigila@gmail.com, celesleon@yahoo.com

RESEARCH PUBLICATIONS

In International Journals:

1. Mancy L and **Maria Celestin Vigila, S.**, “Protection of Encrypted Medical Image using Consent based Access Control”, International Journal of Medical Engineering and Informatics, 2020. Inderscience Publishers – ACM Digital and Scopus indexed.
2. Saira Varghese and **Maria Celestin Vigila, S.**, “A Novel Method for Mapping Plaintext Characters to Elliptic Curve Affine points over Prime Field and Pseudorandom Number Generation”, International Journal of Computer Information Systems and Industrial Management Applications, Vol. 12, 2020, ISSN 2150-7988.
3. Joneston Dhas J.L. and **Maria Celestin Vigila, S.**, “Protecting Big Data in Public Cloud by Enhanced RBAC”, Indian Journal of Computer Science and Engineering, Vol.11, No.2, 2020. ISSN: 0976-5166, DOI : 10.21817/indjcse/2020/v11i2/201102118.
4. Briso Becky Bell J. and **Maria Celestin Vigila, S.**, “Gene Expression Analysis to Mine Highly Relevant Gene Data in Chronic Diseases and Annotating its GO Terms”, EAI Endorsed Transactions on Energy Web, 2020. DOI: 10.4108/eai.13-7-2018.164821.
5. Mancy L and **Maria Celestin Vigila, S.**, “Medical Image Protection using Diffusion, Substitution and Reversible Data Hiding based on Prediction”, International Journal of Security and Networks, Vol. 14, No. 4, pp.238 – 249, 2019. Inderscience Publishers – ACM Digital and Scopus indexed – Impact Factor: 1.764 – ISSN: 1747-8413 – DOI: 10.1504/IJSN.2019.103167.
6. Joneston Dhas J.L., **Maria Celestin Vigila, S.** and Ezhil Star C., “A Review on Privacy Preserving Big Data Process”, Journal of Advanced Research in Dynamical and Control Systems, Vol. 11, 07-Special Issue, pp.1062-1074, 2019. Scopus Indexed, Impact Factor: 0.2 – ISSN: 1943-023X.

7. Briso Becky Bell J. and **Maria Celestin Vigila, S.**, “Gene Selection Approaches for Classifying Disease Relevant Data Sample”, International Journal of Engineering and Technology, Vol. 7, No. 3.27, pp. 62-69, 2018. Scopus indexed – ISSN: 2227-524X– DOI: 10.14419/ijet.v7i3.27.17655.
8. Mancy L and **Maria Celestin Vigila, S.**, “A new diffusion and substitution based cryptosystem for securing medical image applications”, International Journal of Electronic Security and Digital Forensics, Vol. 10, No. 4, pp. 388 - 400, 2018. Inderscience Publishers - ACM Digital and Scopus indexed – Impact Factor: 0.824– ISSN: 1751-9128 – DOI: 10.1504/IJESDF.2018.095140.
9. Vineetha Venugopal and **Maria Celestin Vigila S.**, “Implementing Big Data Privacy with MapReduce for Multidimensional Sensitive Data”, International Journal of Applied Engineering Research, Vol. 13, No.15, pp. 11824-11829, 2018. ISSN No. 0973-4562.
10. Sobin Soniya, S. and **Maria Celestin Vigila, S.**, “Improving the Efficiency of Classifiers for Detecting Intrusion using Rough Set Theory”, Journal of Advancement in Software Engineering and Testing, Vol.1 No.1, pp.1-14, 2018.
11. Princy Alexander, Praseetha P.K and **Maria Celestin Vigila S.**, “Cytotoxicity, Genotoxicity and Cell Adhesion Study of Electrospun Silk/Surface Modified Nanosilica Composite for Bone Regeneration Applications, International Journal of Pharma and Bio Sciences, Vol. 8, No.3, pp.366-372, 2017. ISSN: 0975-6299 DOI: 10.22376/ijpbs.2017.8.3.
12. Joneston Dhas J.L., **Maria Celestin Vigila, S.** and Ezhil Star C., “A Framework on Security and Privacy-Preserving for Storage of Health Information Using Big Data”, International Journal of Control Theory and Applications, Vol.10, No.3, pp. 91-100, 2017. ISSN No. 0974-5572.
13. Sammy F. and **Maria Celestin Vigila, S.**, “A Survey on CIA Triad for Cloud Storage Services”, International Journal of Control Theory and Applications, Vol.9, No.14, pp.6701-6709, 2016. ISSN No. 0974-5572 – Scopus indexed.
14. Arya Sreedhar and **Maria Celestin Vigila, S.** “Botnet Detection using Flow Clustering and Conversation” Journal of Emerging Technologies, Vol.10, pp.176-179, 2015. ISSN No.0973-2993.
15. **Maria Celestin Vigila, S.**, Muneeswaran, K. and Berkin Albert Antony, W. “Biometric Security System over finite field for Mobile Applications”, IET Information Security, Vol. 9, No.2, pp.119 – 126, 2015. IET Publishers – SCI and Scopus indexed – Impact Factor: 0.892 ISSN: 1751-8717 DOI: 10.1049/iet-ifs.2013.0286.
16. **Maria Celestin Vigila, S.** and Muneeswaran, K. “Hiding of Confidential Data in Spatial Domain Images using Image Interpolation”, International Journal of

In International Conference:

17. Sammy F and **Maria Celestin Vigila, S.**, “An Efficient Multi-Authority Attribute Based Encryption Technique for Storing Personal Health Record by Compressing the Attributes”, Springer International Conference on Communication Systems and Networks, Mar Baselios College of Engineering and Technology, Thiruvananthapuram, Kerala, December 12th and 13th 2019, Advances in Communication Systems and Networks, Lecture Notes in Electrical Engineering, Springer, Singapore, vol. 656, pp. 571-575, 2020. ISBN: 978-981-15-3991-6, DOI: https://doi.org/10.1007/978-981-15-3992-3_48.
18. Mancy L and **Maria Celestin Vigila, S.**, “Consent based Access Control Mechanism for Encrypted Medical Image”, IEEE International Conference on Intelligent Computing, Instrumentation and Control Technologies, Vimal Jyothi Engineering College, Kerala, July 5th and 6th 2019. ISBN: 978-1-7281-0283-2 DOI: 10.1109/ICICT46008.2019.8993395.
19. Fouziah Hamza and **Maria Celestin Vigila S.**, “Review of Machine Learning-Based Intrusion Detection Techniques for MANETs”, International Conference on ICT for Sustainable Development, Panaji, Goa, India, 30-31 August 2018, In: Peng SL., Dey N., Bunde M. (eds) Computing and Network Sustainability, Lecture Notes in Networks and Systems, Springer, Singapore, Vol.75, pp. 367—374, 2019. ISBN: 978-981-13-7150-9 DOI: https://doi.org/10.1007/978-981-13-7150-9_39.
20. Rasic A Azeez., **Maria Celestin Vigila, S.**, “Cryptographically Secure Data using Secure Multi Party Computation”, International Conference on Networks Image and Security, Noorul Islam Centre for Higher Education, Kumaracoil, pp. 128-133, April 10th and 11th 2019. ISBN: 9788193694930.
21. Joneston Dhas J.L., **Maria Celestin Vigila, S.** and Ezhil Star C., “Protecting Big Data in Public Cloud by Merging Attribute Based Encryption and Role Based Access Control”, International Conference on Networks Image and Security, Noorul Islam Centre for Higher Education, Kumaracoil, pp. 123-127, April 10th and 11th 2019. ISBN: 9788193694930.
22. Briso Becky Bell J. and **Maria Celestin Vigila, S.** “Genic Disorder Identification and Protein Analysis using Soft Computing Methods”, International Conference on Soft Computing Systems, Baselios Mathews II College of Engineering, Kollam, April 2018, Communications in Computer and Information Science, Vol.837, Springer, Singapore, 2018. ISBN: 978-981-13-1936-5 DOI: https://doi.org/10.1007/978-981-13-1936-5_1
23. Joneston Dhas J.L., **Maria Celestin Vigila, S.** and Ezhil Star C., “Forecasting of

- Stock Market by Combining Machine Learning and Big Data Analytics”, International Conference on Soft Computing Systems, Baseli Mathews II College of Engineering, Kollam, April 2018, Communications in Computer and Information Science, Vol.837, 385-395, Springer, Singapore, 2018. ISBN: 978-981-13-1936-5 DOI: https://doi.org/10.1007/978-981-13-1936-5_1.
24. Mancy L and **Maria Celestin Vigila, S.**, “A Review on Reversible Data Hiding Techniques in Encrypted Medical Image”, International Conference on Intelligent, Computing Instrumentation and Control Technologies, Vimal Jyothi Engineering College, Kannur, July 2017.
 25. Saira Varghese and **Maria Celestin Vigila, S.** “A Varied Approach to Attribute Based Access Model for Secure Storage in Cloud”, IEEE International Conference on Innovations in information Embedded and Communication Systems, March 2017. ISBN: 978-1-5090-3294-5, DOI: 10.1109/ICIECS.2017.8276130
 26. Briso Becky Bell J. and **Maria Celestin Vigila, S.** “Continuous Feature Selection Approaches for Identifying Highly Expressed Genes”, IEEE International Conference on Computing Technologies, March 2017.
 27. Sobin Soniya, S. and **Maria Celestin Vigila, S.**, “Machine Learning based Classifiers for Detecting Intrusion”, IEEE International Conference on Computing Technologies, March 2017.
 28. Sobin Soniya, S. and **Maria Celestin Vigila, S.**, “Intrusion Detection System: Classification and Techniques”, IEEE International Conference on Circuit, Power and Computing Technologies, March 2016. ISBN: 978-1-5090-1277-0 DOI: 10.1109/ICCPCT.2016.7530231.
 29. Sammy F. and **Maria Celestin Vigila, S.**, “Survey on CIA Triad for Cloud Storage Services”, International Conference on Power, Circuit and Information Technologies, May 2016.
 30. Varghese, S. and **Maria Celestin Vigila, S.** “A Comparative Analysis on Cloud Data Security”, IEEE Global Conference on Communication Technologies, pp. 507-510, 2015. ISBN: 978-1-4799-8553-1 DOI: 10.1109/GCCT.2015.7342713.
 31. Mancy, L. and **Maria Celestin Vigila, S.** “A Survey on Protection of Medical Images”, IEEE International Conference on Control, Instrumentation, Communication and Computational Technologies, Vol.978, pp.523-526, 2015. ISBN: 978-1-4673-9825-1 DOI: 10.1109/ICCICCT.2015.7475331.