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He has more than 15+ years of Teaching Experience and 10+ years of Research Experience.

He published 2 Patents.

- (1) *Title of the invention:* **SYSTEMS AND METHODS FOR GENOMIC PREDICTION OF ORYZA SATIVA**

*Application No. :* **TEMP/E1/16059/2017-CHE**

*Date of filing of Application:* **05/05/2017**

*Publication Date:* **05/05/2017** and *Journal No. -/2017*

*Name of Inventor:* **K.Butchi Raju**

- (2) *Title of the invention:* **METHODS AND SYSTEMS FOR PREDICTION OF CHROMOSOME-BY-CHROMOSOME GENOME SIMILARITY**

*Application No. :* **TEMP/E1/33617/2017-CHE**

*Date of filing of Application:* **21/09/2017**

*Publication Date:* **29/09/2017** and *Journal No. -/2017*

*Name of Inventor:* **K.Butchi Raju**

He Published One book “Parallel approach to string matching with n-folded mechanisms”, LAP LAMBERT Academic Publishing.

Principal Investigator of the Research project entitled “A Computing Parallel String Matching Approach with Omega Model” Sanctioned by UGC with an amount of Rs 2,60,000/- under UGC-Minor Research Project Scheme.(completed)

Published 41 research publications in reputed journals which are indexed in SCI, SCOPUS, Web of Science and UGC journals.

### **Journal publications**

#### **International publications:**

1. K Butchi Raju, “N-Folded Parallel String Matching Mechanism”, Annals of Data Science, Springer, 2016, pp.1-46, ISSN: 2198-5804.
2. K Butchi Raju , “A new multi processor parallel string matching with omega model”, ARPN Journal of Engineering and Applied Sciences, Vol 11-No.9,pp-5881-5885,May 2016,ISSN: 1819-6608.
3. K Butchi Raju, “Numeral N-Folded Parallel String Matching”, International Journal of Applied Engineering Research, Vol 10-No.19,pp.40415-40433, 2015, ISSN 0973-4562.
4. K Butchi Raju, “A Novel Frame Work for Parallel String Matching With Omega Model”, International Journal of Advanced Computing, Vol-7, Issue-2, pp.47-50, April 2015, ISSN: 0975-7686.
5. K Butchi Raju, “Parallel String Matching with Multi Core Processors-A Comparative Study for Gene Sequences”, Global Journal of Computer Science and Technology, Vol-13, Issue-1, pp.27-41, 2013, ISSN: 0975-4172
6. K Butchi Raju, “Recent Advancement in String matching algorithms- A survey and experimental results”, International Journal Computer Information Systems, Vol 6 No 4, pp.23-30, 2013, ISSN: 2229-5208
7. K Butchi Raju, “ Parallel String Matching Problems with Computing Models - An Analysis of the Most Recent Studies”, International Journal of Computer Applications , Vol.76-No.15, pp.7-25, Published by Foundation of Computer Science, New York, USA, August 2013, IF-0.821, ISSN: 0975-8887.
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10. K Butchi Raju, "String Matching Problems with Parallel Approaches – An Evaluation for the Most Recent Studies", *Global Journal of Computer Science and Technology*, Vol-13, Issue-11, pp.9-18, 2013, ISSN: 0975-4350.
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14. K Butchi Raju, "An Object Oriented Approach to Dynamic En-Route Filtering Scheme for Data Reporting in Wireless Sensor Networks" *International Journal of Advanced Research in Computer Science and Software Engineering*, vol 3 issue 10 October 2013, pp.1238-1244, ISSN: 2277 128X
15. K Butchi Raju, "Comparative study of AODV with malicious environment and the USOR", *International Journal of Advanced Engineering Research and Science*, vol 4 issue 2 February 2017, pp.1-7, ISSN : 2349-6495(P)
16. K Butchi Raju, "A Novel IP Traceback Scheme for Spoofing Attack", *International Journal of Advanced Engineering, Management and Science*, Vol 3 issue 2, pp-1-6, 2017, ISSN: 2454-1311 (E).
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18. K Butchi Raju, "Single and Multiple Pattern String Matching Algorithm", *Indian Journal of Science and Technology*, Vol-10, Issue-3, pp.1-6, Jan 2017, ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645.
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21. K. Butchi Raju, "Digital Image-In-Image Watermarking For Copyright Protection and Authentication", *ARPN Journal of Engineering and Applied Sciences*, Vol-14, Number-23 December-2019, pp. 4021-4044, ISSN:1819-6608.
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23. K. Butchi Raju, "Region Based Segmentation and Object Detection", *International Journal of Innovative Technology and Exploring Engineering*, Vol-8, Number -11, September 2019, pp. 366-368, ISSN: 2278-3075.

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30. K. Butchi Raju," MapReduce Accelerated Signature Based Intrusion Detection Mechanism IDM with Pattern Matching Mechanism", Advances in Intelligent Systems and Computing, vol-758, August-2018, pp.157-164, ISSN: 1877 -7058.
31. K. Butchi Raju, " Survey on Malware Detection Methods And Malware Detection Technologies", IJSART, Vol-4, Number-1, January-2018,pp.615-620, ISSN: 2395 1052.
32. K. Butchi Raju, " An Empirical Techniques of Information Retrieval System in Searching", International Journal Of Engineering Research And Development, Vol-13,Number-9,September-2017,pp.37-42, ISSN: 2278 067X
33. K. Butchi Raju, " Method for identification of 10 SSR markers from monkey genomes and its statistical inference with One & Two-way ANOVA", MethodX(ELSEVIER), Vol-9,2022,pp.1-14, ISSN: 2215-0161

## Conference Proceedings

### International Conferences:

1. K Butchi Raju, "Recent Advancement in Parallel Algorithms for String matching on computing models - A survey and experimental results", LNCS, Springer, pp.270-278, ISBN: 978-3-642-29279-8, 2011.
2. K Butchi Raju, "PDM data classification from STEP- an object oriented String matching approach", IEEE conference on Application of Information and Communication Technologies, pp.1-9, ISBN: 978-1-61284-831-0, 2011.
3. K Butchi Raju, "Implementation of Interactive Data Knowledge Management and Semantic Web for Step-Data from Express Entities", Proceedings of the 2010 3rd International Conference on Emerging Trends in Engineering and Technology, pp.537-542, ISBN: 978-0-7695-4246-1, 2010.
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5. K. Butchi Raju, "Prediction of the COVID-19 pandemic with Machine Learning Models", Proceedings of the Fifth International Conference on I-SMAC, pp:478-485, ISBN: 9781-6654-2641-1, 2021.
6. K. Butchi Raju, "Optimized Building of Machine Learning for Thyroid monitoring and Analysis", Proceedings of the Second International Conference on Smart Electronics and Communication (ICOSEC), IEEE Xplore Part Number: CFP21 V90-Art, ISBN: 978-1-6654-3368-6.
7. K. Butchi Raju, "Malicious Software Detection and Analyzation Using the Various Machine Learning Algorithms", International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE, 978-1-6654-5262-5.

### National conferences:

1. K. Butchi Raju, "Role Based Access Control", National Conference on Information Security at Sidhardha Engineering College, Vijayawada, pp.78-84, 2007.