KG COLLEGE OF ARTS AND SCIENCE

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An ISO 9001 : 2015 Certified Institution
Research and Development Cell
Faculty Researcher Profile

R & D CELL - KGCAS
co-Kreating Genius

Name	Dr. Maharasan.K.S	Degrees	MCA, PhD
Image for home page	https://drive.google.com/file/d/1GfN5vw6pIqqtRRBlS8ifOn906X0t-HBm/view?usp=sharing		
Faculty Profile (200 Words Minimum)	Software Engineering and Management Information Systems are the areas of interest. Holds a Masters and Doctorate Degrees in Computer Applications with 21 years of total experience comprising of 16 years in teaching, administration and research and 6 years in software industry as a functional consultant, support specialist and business analyst. Handled systems specialization papers for MBA and PGDM Students of business schools of repute in Tamil Nadu, Karnataka and Kerala. Worked on the e-Governance projects of a private deemed-to-be University. Acted as a Member of the organizing teams of Software User Training Sessions, Process Mapping Teams, Faculty Development programs, Workshops, Seminars and Conferences. Published 13 papers in International and National level Conferences and 3 papers in International Journals.		
Keywords	Software Engineering, Software Maintenance, Management Information Systems & Green Computing		
RESEARCH PROJECTS / FOCUS AREAS			
Title and description of research projects and Ph.D Research / focus areas (Minimum 100 Words about each projects)	The PhD research work is about software maintenance with a special focus on corrective maintenance. The bug triage process that plays a vital role in corrective maintenance has been analyzed and sufficient suggestions and improvements were made in the overall process.		
PUBLICATIONS			

1. Optimized Attribute Selection Using Artificial Plant (AP) Algorithm with ESVM Classifier (AP-ESVM) and Improved Singular Value Decomposition (ISVD)-Based Dimensionality Reduction for Large Micro-array Biological Data. V Saravanan, R Manikandan, KS Maharasan, R Ramesh

   Interdisciplinary Sciences: Computational Life Sciences, 1-13 2020 https://doi.org/10.1007/s12539-020-00377-5

   A unique approach is presented for the feature selection utilizing the Artificial Plant algorithm which uses the Enhanced Support Vector Machine classifier.

2. To Minimize Fault Report and Bug Fixing Time using an Efficient Integration of Instance and Aspect Preferment Algorithm. KS Maharasan, V Saravanan Current Signal Transduction Therapy 14 (2), 131-137 2019
   DOI: https://doi.org/10.2174/1574362413666180712125144

Manual fault triage is a time-consuming and cumbersome process. To resolve the above issues, An Efficient Integration of Instance and Aspect Preferment Algorithm (EIIAPA) is proposed with J48 classifier algorithm to handle the bug repository and provide a cleansed bug data set as an Outcome possessing only the required attributes.

3. An Efficient Fuzzy-Based Software Cost Prediction Model for Software Product or Application Requirement Specification and Effort Evaluation

   Maharasan.K.S Saravanan.V International Journal of Pure and Applied Mathematics 119 (16), 4035-4048 2018

   An Efficient Fuzzy-Based Software Cost Prediction Model is proposed for software cost evaluation phase of the Software Project Management Activities.

Google Scholar ID	https://scholar.google.com/citations?user=A8YH740AAAAJ&hl=en
Research Gate ID	https://www.researchgate.net/profile/Maharasan-Ks
Orcid ID	https://orcid.org/0000-0001-8591-0940
Semantics Scholar ID	https://www.semanticscholar.org/author/K.-S.-Maharasan/1441412009

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