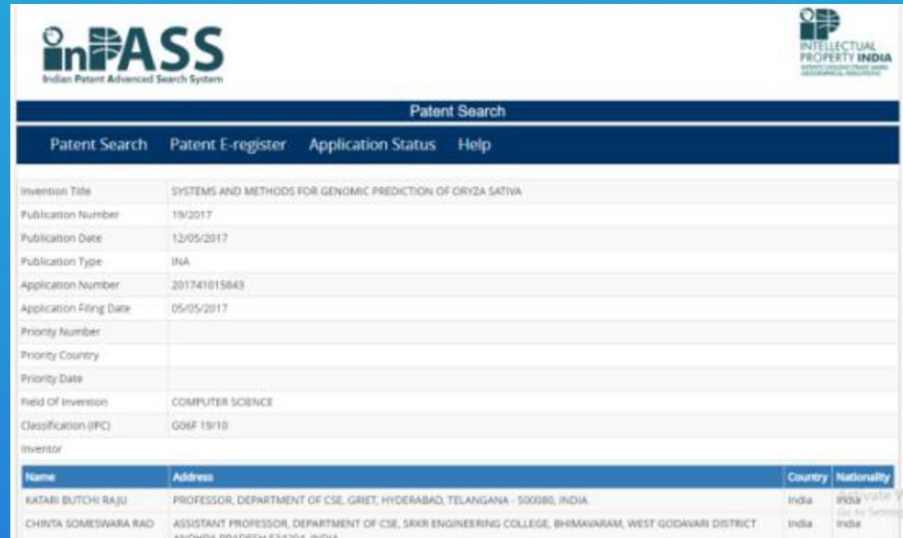# S R K R ENGINEERING COLLEGE
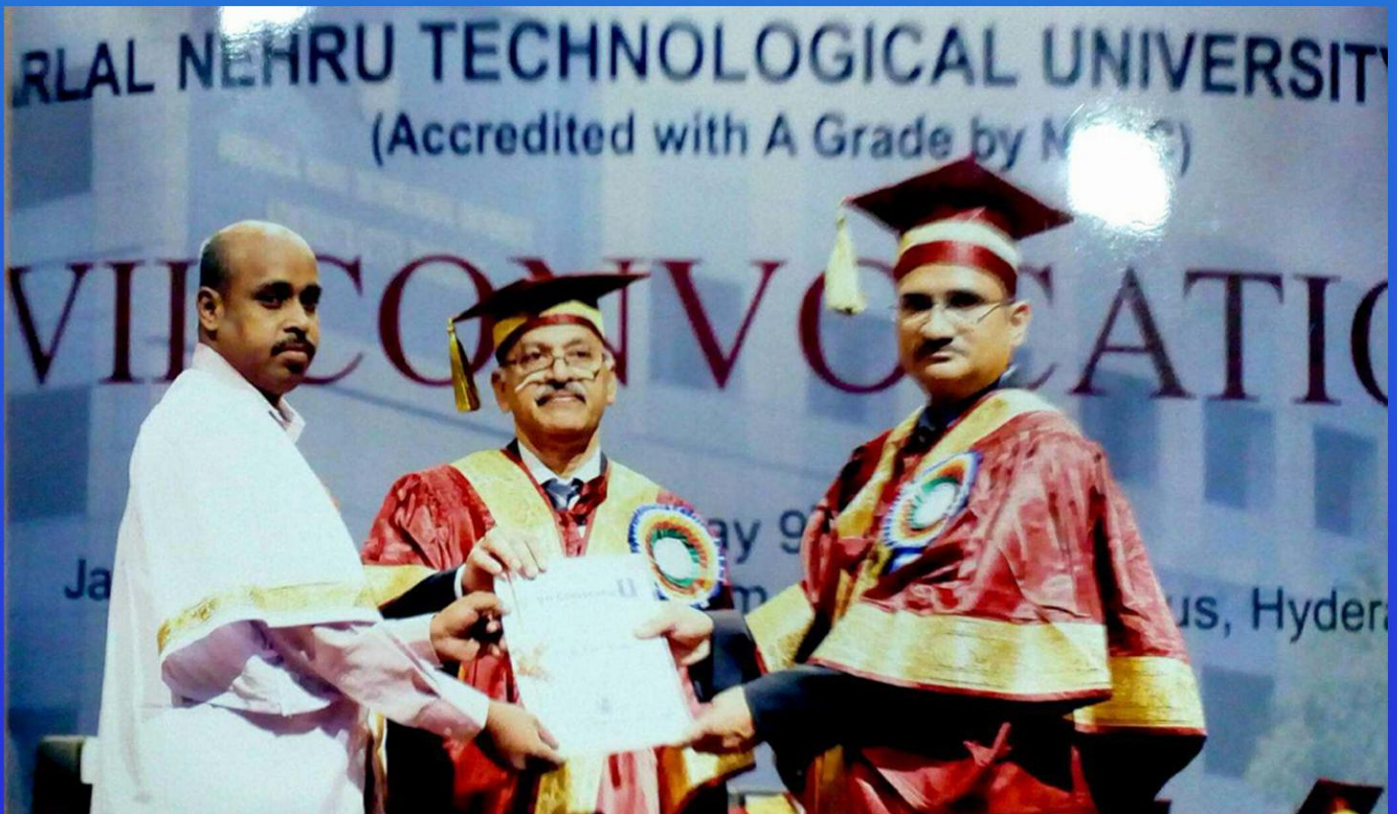## (AUTONOMOUS)

COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering was founded in the year 1991 by people who had a vision. This vision was how Computer Science and Engineering would fit into the unique spirit of S R K R Engineering college, an institution oriented to an unusual degree around under graduate education and close interdepartmental collaboration. One of the strengths of the department is well qualified and well experienced faculty. Presently having 3 Professors and 4 Associate Professors with 8 Ph.D., degrees and the Professors and Associate Professors have an average experience of 20 years, Assistant Professors having M.Tech., degrees with an average experience of 9 years. All the faculty are very much involved in research activity and doing research projects funded by DST, UGC, AICTE etc

A hash-based algorithm for mining non-redundant asynchronous periodic patterns

Authors: G. N. V. G. Sirisha, M. Shashi, Authors Info & Affiliations

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https://doi.org/10.1504/IJBIDM.2016.xxxxxx

Abstract

Periodic patterns occur in a wide variety of datasets like time series, temporal, spatiotemporal and biological datasets. Asynchronous periodic pattern mining discovers the patterns that appear significantly with strict periodicity in one or more subsequences called valid segments with tolerable disturbance between the valid segments. The state-of-the-act asynchronous periodic pattern mining algorithms proposed in the literature mine many redundant asynchronous periodic patterns. This paper proposes an algorithm to mine non-redundant asynchronous periodic patterns. It is a variation of a four-phase algorithm named SMCA. The proposed algorithm mines precise and concise set of non-redundant patterns whose number is in orders of magnitude smaller than that of previous methods. The proposed algorithm is explained using a hypothetical dataset and its performance is evaluated using three real data sets which are stock market data from Bombay Stock Exchange, Weather data from Cambridge University and Migratory Zebras' data from MoveBank.

Patent Search				
Patent Search	Patent E-register	Application Status	Help	
Invention Title	SYSTEMS AND METHODS FOR GENOMIC PREDICTION OF ORYZA SATIVA			
Publication Number	19/2017			
Publication Date	12/05/2017			
Publication Type	INA			
Application Number	201741015843			
Application Filing Date	05/05/2017			
Priority Number				
Priority Country				
Priority Date				
Field Of Invention	COMPUTER SCIENCE			
Classification (IPC)	G06F 19/10			
Inventor				

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KATARI BUTCHI RAJU	PROFESSOR, DEPARTMENT OF CSE, GRIET, HYDERABAD, TELANGANA - 500080, INDIA.	India	India
CHINTA SOMESWARA RAO	ASSISTANT PROFESSOR, DEPARTMENT OF CSE, SRKR ENGINEERING COLLEGE, BHIMAVARAM, WEST GODAVARI DISTRICT, ANDHRA PRADESH 534204, INDIA	India	India

On 1st Jan, 2017, GNVG Sirisha , Assistant Professor in CSE published a SCOPUS paper entitled "A Hash-based Algorithm for Mining Non-redundant Asynchronous Periodic Patterns"

On 12th May,2017 Dr Ch Someswara Rao filed and published a patent entitled "Systems and methods for genomic prediction of oryza sativa", with patent number 201741015843 with controller General of patents,Government of India.
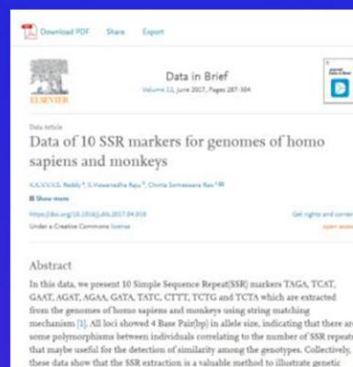

On 26th May, 2017, Chinta Someswara Rao , Assistant Professor in CSE, received Ph.D from JNTU Hyderabad for his research in the field of Informaton retrieval Systems

Faculty achievements

CSE faculty has published 10 papers in Journals & Conferences like Springer, IEEE, Elsevier, etc.,
No of SCI papers – 00
No of Scopus papers- 04
No of UGC- 6

CSE faculty has participated in 04 different Faculty Development Programs

Data in Brief
Volume 12, June 2017, Pages 287-304

Data article

Data of 10 SSR markers for genomes of homo sapiens and monkeys

V.V.V.V.S. Reddi [a], S.Viswanadha Raju [b], Chinta Someswara Rao [a][b]

Abstract

In this data, we present 10 Simple Sequence Repeat(SSR) markers TAGA, TCAT, GAAT, AGAT, AGAA, GATA, TATC, CTTT, TCTG and TCTA which are extracted from the genomes of homo sapiens and monkeys using string matching mechanism [1]. All loci showed 4 Base Pair(bp) in allele size, indicating that there are some polymorphisms between individuals correlating to the number of SSR repeats that maybe useful for the detection of similarity among the genotypes. Collectively, these data show that the SSR extraction is a valuable method to illustrate genetic

On 12th June, 2017 Dr Chinta Someswara Rao published SCOPUS paper in ELSEVIER Journal entitled " Data of 10 SSR markers for genomes of homo sapiens and monkeys"
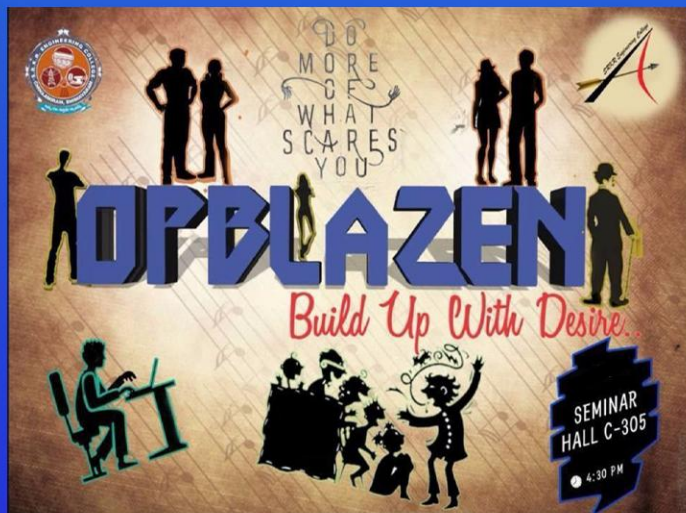
Participants of DESTEMIDO

On 28th June, 2017 In DESTEMIDO the students will be grouped into teams and topic is given together .
For each team five minutes of time is given for browsing the information regarding the topic. Later we randomly pick teams and asked them to share information about the topic. Marks are provided based on presentation skills, body language, and way of presenting.

On 28th Jun, 2017 OPBLAZEN contest was conducted in CSE department.
Students from different years of five sections are participated in the event

In OPBLAZEN contest the participants will be provided with grid of four pictures. By using these pictures they have to narrate a fantasy story .

Student Achievements

TCS,KONY LABS,VISTRA IT,CAPGEMINI visited the campus for recruiting the B.Tech students in which 42,5,2,24 CSE students were selected with an annual package of 3.3,7,3.5,3.5 LPA respectively.

Students participated in different work-shops & conferences which are conducted by IITs/NITs and received prizes, Jan to June 2017

VISION

To envision a diverse, stimulating, continually improving academic and research environment to fulfill the needs of the society and to mould students as socially responsible and competent professionals in the field of computer science and engineering.

MISSION

To provide a strong theoretical and practical background across the computer science and engineering discipline with an emphasis on software development.

To impart modern technologies with industrial, academic and research collaboration.

To inculcate professional behavior, strong ethical values, leadership abilities and impart the skills necessary to continue education for professional growth.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1

Graduates of the program will become significant component of computer industry with basic and specialized knowledge in computer science and engineering blended with knowledge in mathematics and modern technologies

PEO 2

Graduates will have adequate knowledge and technical skills for continuous education and research

PEO 3

Graduates are prepared to be socially responsible computing professionals/entrepreneurs by creating necessary environment that fosters the graduates' communication, presentation, teamwork, leadership skills, and professional ethics

PROGRAM SPECIFIC OUTCOMES (PSO'S)

PSO1

Ability to apply in depth problem solving and programming skills

PSO2

Ability to do collaborative development of software solutions for trans-disciplinary Engineering problems

PSO3

Ability to design and integrate hardware and software components for the advancement of technology