SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

Department of Computer Science and Engineering

Certificate



Certified that the project work entitled "ESTIMATION AND DE-IDENTIFICATION OF GENDER SIGNATURE FROM FINGERPRINTS" carried out by AKSHATHA HEBBAR (ISG11CS006), ANUSHA M (ISG11CS012), CHANDAN N (ISG11CS019), MALLIKARJUNA K R (ISG11CS039), bonafide students of this institute, in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2014-15. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. This project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of the Guide Mrs. Kamalakshi Naganna Associate Professor	Signature of the HOD Dr.C.M.Prashanth Professor & Head	Signature of the Principal Dr. Aswatha Kumar M	
Name of the Examiners	110105501 CC 110au	Dr. Aswatha Kumar. M Principal Principal Principal Sapthagiri College of Engineering No. 14/5, Chikkasandra, Hesaraghatta Main Road, Bangajore - 560 057 Signature with date	
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ABSTRACT

A fingerprint in its narrow sense is an impression left by the friction ridges of a human finger. Fingerprints are easily deposited on suitable surfaces such as glass, metal or polished stone by the natural secretions of sweat from the eccrine glands that are present in epidermal ridges. The need of sharing fingerprint image data in many emerging applications raises concerns about the protection of privacy. It has become possible to use automated algorithms for inferring soft biometrics from fingerprint images. Even if we cannot uniquely match the person to an existing fingerprint, revealing their gender may lead to undesirable consequences.

De-identification is a technique which is enforced to remove data pertaining to personal information such as gender. This project focuses on de-identifying fingerprint images in order to obfuscate soft biometrics.



Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bangalore - 560 012

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Dr. S. G. Sreekanteswara Swamy Fellow & Principal Investigator - SPP

12th March 2015

Ref: 7.1.03/SPP/1018

The Principal Sapthagiri College Of Engineering 14/5, Chickasandra, Hesaraghatta Main Road Bangalore - 560 057.

Dear Sir,

Sub: Sanction of Student Project - 38th Series: Year 2014-2015

Your Project Proposal Reference No.: 3850913

Ref : Your Project Proposal entitled " ESTIMATION AND DE-IDENTIFICATION OF GENDER SIGNATURE FROM FINGERPRINTS

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 38th Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr.: Chandan N	學的學達的學	Budget	Amount (Rs)
Stations	and others	124-11-11-11-11-11-11-11-11-11-11-11-11-11	Materials/Consumables	2,000.00
Guide/s	Prof. Kamalakshi Na	ganna	Labor	建筑美国
Guide/5			Travel	
Department	Computer Science And Engineering		Miscellaneous	500:00
Department			Report	500.00
			TOTAL	3,000.00
Rupees	THREE	ZERO		
. Kupees	THOUSAND	HUNDRED		

The following are the guidelines to carryout the project work:

- a) The project should be performed based on the objectives of the proposal sent by you.
- b) The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- c) Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- d) Please quote your <u>project sanction reference number printed above</u> in all your future correspondences.
- e) Important: After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following:
 - 1) Title of the project
 - 2) Name of the College & Department
 - 3) Name of the students & Guide(s)
 - 4) Keywords

- Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)
 (materials, methods, details of work carried out, including drawings, diagrams etc.)
- 8) Results and Conclusions
 (about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).
 (Note: The write-up (Synopsis) should be sent with the approval of project The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project propose reference number and title of the project.)
- e) Projects selected for Seminar / Exhibition will be awarded.

The sanctioned amount will be sent separately by our Accounts Department.

The sponsored projects evaluation will be held in the Nodal Centre and the detail the nodal centre will be intimated shortly.

Please visit our website for further announcements / information and for any clarifications email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,

(SGS Swamy)

Copy to:

 The Head of the Department of Computer Science And Engineering Sapthagiri College Of Engineering 14/5, Chickasandra, Hesaraghatta Main Road Bangalore – 560 057.

Prof. Kamalakshi Naganna
 Department of Computer Science And Engineering Sapthagiri College Of Engineering 14/5, Chickasandra, Hesaraghatta Main Road Bangalore – 560 057.

3) The Finance Officer, KSCST, Bangalore