

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

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 - 88th Series Year 2014/2015

Your Project Proposal Reference No.: 38S0913

Ref: Your Project Proposal entitled "

ESTIMATION AND DE-IDENTIFICATION OF GENDER

12th March 2015

SIGNATURE FROM EINGERPRINTS

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 and others		Budget	Amount (Rs)
5.T			Materials/Consumables	2,000.00
Guide/s	Prof. Kamalakshi Naganna		Labor	
			Travel	Contraction of the Contraction o
Department	Computer Science And Engineering		Miscellaneous	500.00
			Report	#\$ 500.0 0
			TOTAL	3,000.00
Rupees	li .	ZERO		
Rupees	THREE	ZERO 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 **project sanction reference number printed above** 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)

College A Engineering

5) 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 guide. 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 proposal 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 details of

Please visit our website for further announcements / information and for any clarifications please

Thanking you and with best regards,

Yours sincerely

(SGS Swamy)

Copy to:

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

2) 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

3850913

Project proposal ref no.38S0913

"ESTIMATION AND DE-IDENTIFICATION OF

GENDER SIGNATURE FROM FINGERPRINTS"

NAME OF THE COLLEGE AND DEPARTMENT

SAPTHAGIRI COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGG

NAME OF STUDENTS AND GUIDE

AKSHATHA HEBBAR(1SG11CS006) ANUSHA M(1SG11CS012) CHANDAN N(1SG11CS019) MALLIKARJUNA K R (1SG11CS039)

UNDER THE GUIDANCE OF

MRS KAMALAKSHI NAGANNA

Associate Professor

KEYWORDS

LBP-Local Binary Pattern.
LPQ-Local Phase Quantization.
DFT-Discrete Fourier Transform.

Signature of the Guide

MRS KAMALAKSHI NAGANNA Associate Professor

Sapthagiri College of Engineering Chikkseandra, Hesaraghatta Road, Bangalore-560 057

INTRODUCTION

The soft biometrics exist for identification of individual, research is carried out for extraction of gender from the fingerprint. From this privacy of individual is preserved. The identification of fingerprint has three phases, Initially Local Binary Pattern which obtain the image as a texture which is given as an input to LPQ (Local Phase Quantization). LPQ is used to obtain phase information of the image. These are the features obtained in soft biometrics.

De-Identification is a required element of information integration in order to reduce the risks of unauthorized disclosure. The implicit goal of de-identification is to protect privacy and preserve data utility. In de-identification, data content may be altered to remove or obscure personal information which would allow identification of an individuals who are the source of data. Image de-identification refers to the process of depriving the biometric data of information which would be useful to identify the source of data. In many real world applications, de-identification allows to release of data without sensitive information.

The obtained De-Identified image is matched across the original image and obtain sufficient matching performance.

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

OBJECTIVES

- Achieving privacy protection on fingerprint image, where the need of sharing the data in many emerging application is important.
- Extracting the features of soft bio-metrics from given fingerprint image uses efficient De-Identification algorithm.
- Release the researched data of fingerprint image in such a way that it should disallow the successful extraction of soft bio-metrics.
- This proposes a method for reducing the ability to estimate the gender from the de-Identified fingerprint image, without compromising the correctness of the matching operation.

Children and Sandra Roads

Children and Sandra Roads

Children and Sandra Roads

Children and Sandra Roads

SCE-2014-15

Payment Voucher

No.: 890

Dated

16-Jul-2015

Through: TGMC-103091002852

Particulars

Amount

Account:

KSCST(Project Work)

3,000.00 -

On Account of:

Being expenses incurred towards KSCCT Project

work

Bank Transaction Details:

Akshatha Hebbar Cheque

16-Jul-2015

3,000.00-

DAPTINGIELOGELES DE LA GREEN MAN. TOMOZANKA/ONO.: 21208.001.202

7188100 F.08018 on pa

Authorized Stonetor

Amount (in words):

INR Three Thousand Only

₹ 3,000.00

r's Signature

Authorised Signatory

Checked by:

NAPHUM Verified by

11-8-15

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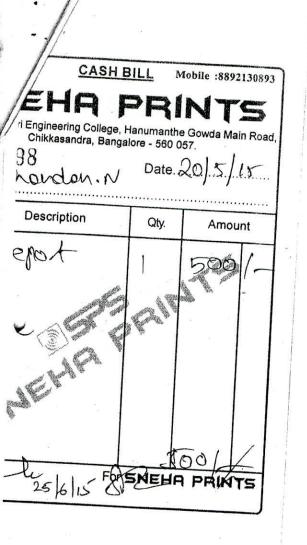
Dear Sir,

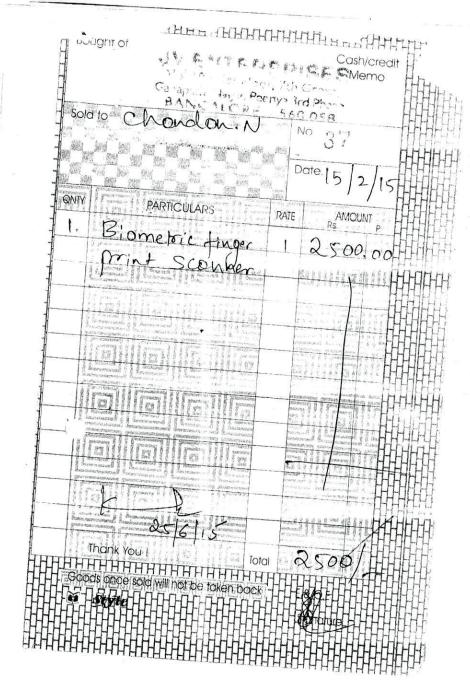
Subject: Reinsbursement of tunds granted by KSC 57 to SB ACINO: 1199101022705

, chandon. N(18911cso19) a student of your collège, writing this letter to collect reinbursement of tund on behalf of my friends Akshotha Hebbar CYSGIICSOC Anusha MC18911CSO12), molikazina KR (18911CSO39) were selected for the student project prodom Organized by KSCST for which they received a grant to colly out the project. I have beford the receipt of the Enpenditure along with this letter. I kindly request you to reimburge the amount of to SB ACCINO "1199101022705" (CANARA BANK). The Expenditure is summerized in the table below.

Forwarded to Principal sort. Thanking you,

Slivo Item No Amound 1 Equipment 2500 2 Report 500 Ps; 300





Saphhadiri College of Engineering