MARATHWADA MITRA MANDAL'S



COLLEGE OF COMMERCE

Affiliated to Savitribai Phule Pune University, Re-Accredited by NAAC with "A" Grade ISO 9001:2015 Certified, Awarded as Best College by Savitribai Phule Pune University 202/A, Deccan Gymkhana, Pune – 411004

principal@mmcc.edu.in, enquiry@mmcc.edu.in, www.mmcc.edu.in

List of faculty Members provided with financial support to attend conferences/workshops and towards membership fee of professional bodies for the A.Y. 2018-19.

Sr. No.	Particulars
1	Asst. Prof. Komal Dhoot
2	Asst. Prof. Meenal Kabra
3	Asst. Prof. Vishakha Wagh
4	Asst. Prof. Nidhi Satavlekar
5	Asst. Prof. Dr. Shrishti Gangalay
6	Asst. Prof. Dr. Sandip Anpat

Marathwada Mitra Mandal College of Commerce

BBA(CA) B.Sc (Computer Science)

16/2/2019

To The Principal **MMCC** Pune

Subject:-Request for attending Seminar

Respected Sir,

With reference to above subject, BBA(CA) teachers would like to attend State level Seminar on

"Technologies that will rule the world in 2020 and beyond" organized by Christ College. The registration fees for the Seminar is Rs300/-. The following teachers will attend the Seminar.

- 1. Mrs. Nidhi Satavlekar
- 2. Mrs. Vishakha Wagh
- 3. Mrs.Meenal Kabra
- 4. Ms.Komal Dhoot

We request you to sanction amount of Rs1200/- for attending seminar.

Thanking you

Yours Sincerely

Mrs. Nidhi Satavlekar BBA(CA) Coordinator 1881

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CHRIST COLLEGE, PUNE

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COLLEGE OF COMMERCE BACHELOR OF COMPUTER APPLICTION

(B.C.A.)

Deccan Gymkhana, Pune 411 018

Debit A/c 91977 Welfare Expenses.

C.M.No.	4
V.R.No.	
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DEBIT VOUCHER

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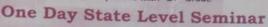
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CARMEL VIDYA BHAVAN TRUST'S

CHRIST COLLEGE - PUNE

(Affiliated to Savitribal Phule Pune University)
Accredited by NAAC with "B+" Grade



on

"Technologies that will Rule the World in 2020 and Beyond"

16th February, 2019

Savitribai Phule Pune University

CERTIFICATE

This is to certify that Dr/Prof/Mr/Ms Nichi Satavlekar

from Marathwada Mitramandal's College of Commerce

was a Resource Person / has participated in the State Level Seminar on "Technologies that will Rule the World 2020 and Beyond", organized by Department of Computer Science at Christ College, Pune on 16th February, 2019

Prof. Willima Shingate
HOD-Computer Science / Organising Secretary



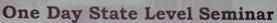
Dr (Fr) Sony J. Chundattu Cl Director / Convener



CARMEL VIDYA BHAVAN TRUST'S

CHRIST COLLEGE - PUNE

(Affiliated to Savitribai Phule Pune University Accredited by NAAC with "B+" Grade



on

"Technologies that will Rule the World in 2020 and Beyond"

16th February, 2019

Sponsored by

Savitribai Phule Pune University

CERTIFICATE

This is to certify that Dr/Prot/Mr/Ms Vishakha Wagh
from _____ Marathwada Mitnamandal's College of Commence

was a Resource Person / has participated in the State Level Seminar on "Technologies that will Rule the World in

2020 and Beyond", organized by Department of Computer Science at Christ College, Pune on 16th February, 2019.

Prof. Nillima Shingate

Galaxy Atl 455Gze / Organising Secretary



Dr (Fr) Sony J. Chundattu CMI Director / Convener

Marathwada Mitra Mandal, Pune-4 Inward No ._

To

Date: 05/03/2019

Principal

MMCC, Pune

Subject: Participation and presentation paper in Dubai 23 and 24 Feb 2019.

Dear Sir,

Thank you very much for giving me an opportunity to represent our college at the international conference on research organized by "Eurasia Research" association united with the United Arab Emirate (UAE) Dubai, held between 23 and 24 February 2019.

I had presented a paper on "Challenges and changes faced by RGB in the digital era" which was well appreciated at this conference.

I incurred the following expenses for attending this conference

1. Registration for the conference Rs 19462 (Invoice attached) \$263*74

\$108.1*74 Rs 8000 2. Visa plus service charges

Rs 13951 3. Flight ticket to and fro \$188.52*74

4. Accommodation and hotel charges for 3 days Rs 21,000

(283.78*74)

Rs 62,413 TOTAL (843.4*74)

I shall be grateful to you if you recommend to the management to at least reimburse to me the Registration fees for the conference and the visa process charges which amounts to Rs 27,462 out of the total amount of Rs 62,413 which was spent by me.

Please do the needful.

Thanking you,

Yours faithfully

Dr Shrishti Gangalay



Receipt

Eurasia Research

"Collaborate to Co-create"

www.eurasiaresearch.org convener@eurasiaresearch.info B-305,World Trade Park, JLN Marg, Malviya Nagar, Jaipur-302017, Rajasthan, India

We have received a sum of USD 263 Ino hundred & winty thru US Jellewith thanks
from NA. Thrishi Gangalay of Dept of Business faministration Management

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For 3M Name ICLSSN (23-124 J.b 2019)

(Registration fus)

Authorised Signatory



COLLEGE OF COMMERCE BACHELOR OF BUSINESS MANAGEMENT (B.B.M.)

Deccan Gymkhana, Pune 411 004

V.R.No.

Date: 68 / 63 / 19.

DEBIT VOUCHER

Paid to Mr./Mrs./M/S _ Mr. Shrishti Giongalay

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attending international conference 25000/in Dubai on 23 8 24th Feb. 2019

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Office Supdt.

Principal Principal

Receiver's Signature

25000/



Eurasia Research

www.eurasiaresearch.org • convener@eurasiaresearch.info

Certificate of Honour

This certificate of honour is awarded to

Dr. Shrishti Gangalay

Of

Dept. of Businesss Administration/Management, Assistant Professor in Administration/Management, Shavitribai Phula Pune University, Pune, Maharashtra, India

for

Changes and Challenges Faced by Ready-made Garment Business in the Digital Era

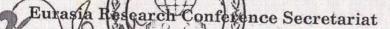
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BEST PAPER PRESENTER

In technical presentation and research contribution to

3rd Dubai – International Conference on Research in Social Science & Humanities (ICRSSH), held at Flora Grand Hotel, Near Al Rigga Metro Station, Deira, Dubai, United Arab Emirates Organized By: Social Science & Humanities Research Association (SSHRA)

"Collaborate to Co-create"



Feb 23-24, 2019

To,

The Principal

Marathwada Mitra Mandal's

College of Commerce, Deccan Pune

Date: - 31/10/2018 Marathwada Mitra Mandal, Pune-4 Inward No. 1827

Subject:- Request of funding for to attend National Symposium at Space Application Centre ISRO Ahmedabad.

Respected Sir,

With reference to above mentioned subject, I am very happy to inform you that my research paper entitled "Snow cover estimation of microwave SIR-C SAR dataset & its implications on statistical parameters" has been accepted for oral presentation in the National Symposium at Space Application Center, ISRO Ahmedabad during December 5-7, 2018. For this the registration fee is Rs.4000/-(Four Thousand Rupees), I would like to request funding to attend this upcoming Symposium, which will give me an opportunity to present my research work between such a immense researcher.

Yours faithfully

Dr. Anpat Sandip M.

Conference Title: National Symposium on Advancement in Geospatial

Technology for Societal Benefits.

Conference Date: 5-7 December 2018

Conference Location: Space Application Centre ISRO Ahmedabad.

Registration Fee: Rs 4000/-

Traveling: Rs 2000/-

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To,

The Principal

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College of Commerce, Deccan Pune

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A Report on Attending a Symposium

National Symposium on Advancements in Geospatial Technology for Societal Benefits at Space Application Centre, ISRO Ahmedabad

Date: 10th Dec 2018

Dr. Sandip M. Anpat

The National Symposium on Advancements in Geospatial Technology for Societal Benefits at Space Application Centre, ISRO Ahmedabad I attended and presented useful topics on Remote Sensing and Geopatial Technology. Since I am associated with group related to ISRO project "CHANDRAYAAN-2" this symposium provided me a full opportunity for practice and constructive dialogue.

This symposium was an ideal platform for results of my work because it is an ISRO forum, consisting researchers, scientists and NASA representatives who are experts in Space Application. In addition, it was divided into six sessions: Web GIS, Geosciences, Navigation and Mobile Apps, Planetary Sciences, Geospatial Technology and Machine Learning, Hyperspectral Application and Microwave Applications.

The research work that I submitted to the symposium has been allocated in Microwave Application session. The paper was: Snow cover estimation of microwave SIR-C SAR dataset and its implications on statistical parameters. The symposium included 35 research groups from all over India to present their recent works in the Space Application. It provided me with a valuable learning experience. For instance, it was an excellent opportunity to gather together, interact and exchange their findings and views during symposium sessions.

Finally, I would have like to thank the Marathwada Mitramandals College of Commerce, Deccan Pune for giving me the opportunity to attend the symposium. This symposium was very interesting and enriched my experience with more information, knowledge and confidence.

Expenses paid by me

1. Registration Fee: 4000/-

2. Travelling:1900/-



ISGNS 2018

National Symposium on Advancements in Geospatial Technology for Societal Benefits and Annual Conventions

December 5 - 7, 2018 | Ahmedabad, Gujarat

Dear DR. SANDIP ANPAT

With thanks, we acknowledge the receipt of your registration for ISGNS 2018. It is a great pleasure for us to have you at "The National Symposium on Advancements in Geospatial Technology for Societal Benefits and Annual Conventions" that will be held from December 5 - 7, 2018, Ahmedabad, Gujarat, India.

REGISTRATION DETAILS

Registration Id

· 197

Registration Type

· Non Members

Registration Fee

· INR 4000.00

Delegate Name

· DR. SANDIP ANPAT

Institution/Org.

Dept. of Computer Sci., Marathwada Mitramandal College of Commerce,

· Deccan Pune 9860759180

Mobile Email

sandipanpat2@gmail.com

Address

· A/P- Saswad PhaltanMaharashtra 415521

Country

· India

Accompanying Fee

INR 0.00 N/A N/A

PAYMENT DETAILS

Total Registration Fee

· INR 4000.00

GST @18%

· INR 0.00

Total Payable Amount

: INR 4000.00

CC. Charges

· INR 120.00

Amount Paid

· INR 4120.00

Transaction

557399 Debit-Credit Card/ NetBanking

Payment Date

· 2018-10-31 16:48:23

Please remember your username and password to re-login and kindly quote your conference registration ID in all future correspondence. (User: sandipanpat2@gmail.com & Password: sandipanpat2)

We hope that you will have a pleasant stay at Gujarat during the conference and assure you a stimulating conference program.

With warm personal regards,

Registration Team

ISGNS 2018





NATIONAL SYMPOSIUM

on

ADVANCEMENTS IN GEOSPATIAL TECHNOLOGY FOR SOCIETAL BENEFITS

Date: December 5-7, 2018 | Venue: Space Applications Centre, Ahmedabad, India.

To: Anpat S. M.

Ref. No. ISGNS-2018:

Date: October 26, 2018

Abstract ID: 134

Subject: Paper Acceptance Letter

We are pleased to inform you that your paper entitled "Snow cover estimation of microwave SIR-C SAR dataset and its implications on statistical parameters" has been accepted for oral presentation in the National Symposium on "Advancements in Geospatial Technology for Societal Benefits" during December 5-7, 2018.

Please check our website www.isgns2018.in for further updates on the Technical Programme of the Symposium and guidelines for poster presentation. You may kindly register for the Symposium if not done earlier.

For enquiries please email us on isgns2018@gmail.com

Looking forward to your participation in the Symposium.

With warm regards,

(4117, Space Applications Centre Ahmedabad-380015. Ph: 079-26914117 Mob.: 9426353641

Snow Cover Estimation of Microwave SIR-C SAR Dataset and Its Implications on Statistical Parameters

1*Shaikh M. A., 2Sayyad S. B., 3Anpat S. M., 1Sonawane D. K., 4Khirade P. W.

- Department of Electronic Science, New Arts, Commerce & Science College, Ahmadnagar 414 001 (M.S.), India
- ² Department of Physics, Milliya Arts, Science & Management Science College, Beed 431 122 (M.S.), India
- ³ Department of Computer Science, Marathwada Mitramandal College of Commerce, Pune 411 004 (M.S.), India
 - ⁴ Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431 004 (M.S.), India
- *Corresponding authors Email: mudassarshaikh333@gmail.com, syedsb@rediffmail.com, sandipanpat2@gmail.com, dattasonawane02@gmail.com, pwkhirade59@gmail.com

Abstract:

The microwave remote sensing is exceedingly useful, as it provides synoptic observation of the Earth's surface or planetary bodies. It retrieves the information regardless of day or night and the atmospheric conditions, propagation through ionosphere with minimum loss. This ability has been demonstrated under a variety of topographic and land cover conditions using both active and passive microwave instruments. One of the best active microwave remote sensing technology for imaging system is the Synthetic Aperture Radar (SAR) remote sensing. It has its own energy source for illumination. It receives the radiation reflected from the target on the ground surface. It generates a very high resolution imagery of the Earth or planetary bodies.

In the present study Snow cover estimation can be obtained by using image classification technique. Because classification has become one of the very important task, after the availability of microwave SAR dataset from the satellites. This techniques is implemented on the basis of Entropy (H), Anisotropy (A) and Alpha (α) based parameters. The classification techniques used in the present work viz., H-alpha, Wishart H α and Wishart H A α classifier. The results of these three classifiers are analyzed and there implications on statistical parameters are compared. The statistical parameters includes Mean (m_a), Median, Standard Deviation (s_a), Coefficient Variance (CV), Equivalence Number of Looks (ENL).

The overall process is applied on microwave L-band SIR-C SAR dataset of Cerro Laukaru, Chile. The dataset is useful for Snow cover estimation, as the large area is covered by Snow, also contains both the Dry and Wet type of Snow. From the literature, it was found that, the accuracy of the L band dataset is better for Snow cover estimation application. Hence, the aim of the present work is to estimate the more accurate, reliable and skillful Snow cover area. The overall processing was done by using PolSARPro Ver. 5.0 software. This software is a European Space Agency (ESA) open source toolbox for polarimetric SAR data processing and education.



In the present work the results of Wishart H Alpha classifier found to better compare to H Alpha and Wishart H A Alpha classifier. There are 5% to 7% difference in between Wishart H Alpha and Wishart H A Alpha classifier for dry and wet snow. The statistical parameters of these results are compared and from that also, it was found that the performance of Wishart H Alpha classification is better compared to the other classification. Hence, in overall class comparison, the Wishart H Alpha classifier shows a better response of classification compare to Wishart H A alpha and H Alpha classifier. Hence from the overall present paper work, it is concluded that the Snow cover estimation of microwave SAR dataset on the basis of statistical parameters analysis is the realistic and novel method.

Key words: Microwave SAR, Dry Snow, Wet Snow, Statistical Parameters.





COLLEGE OF COMMERCE BACHELOR OF COMPUTER APPLICTION (B.C.A.)

Deccan Gymkhana, Pune 411 018

C.M.No.
V.R.No.
31.12-2019 Date: 1 1

DEBIT VOUCHER

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Accountant .

Principal

Receiver's Signature



COLLEGE OF COMMERCE BACHELOR OF COMPUTER APPLICTION (B.C.A.)

Paid to Mr./Mrs./M/s Meenal Kabra

Deccan Gymkhana, Pune 411 018

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