

HONOUR CODE CERTIFICATE

Issued: 1 January, 2020



IITBX

Infinite Learning

CDEEP

Dr. Debasmita Mishra

SSA101x: Hands-on training on Solar Study Lamp Assembly

An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31 Dec 2019 for Student Solar Ambassador Workshop 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

Chetan Singh Solanki
Professor, Dept of Energy Science and Engineering
IIT Bombay



**STUDENT SOLAR
AMBASSADORS**

The Honour Code is elaborated in <https://www.iitbombayx.in/honour>

*Authenticity of this certificate can be verified in <https://certificate.iitbombayx.in/downloads/7c480936532943f4b85152ef56f4e723/Certificate.pdf>



Veer Surendra Sai University of Technology

Burla - 768018

TEQIP-III Sponsored Workshop

ON

**Advanced Techniques for Characterization and
Optimization of Mechanical Systems**

2nd - 6th April, 2019

CERTIFICATE OF APPRECIATION

This is to certify that ...*Dr. Debasmita Mishra, Dept. of Mechanical Engg. VSSUT, Burla* has successfully organised the workshop, ATCOMS-2019 as the Co-convenor of the event held at Veer Surendra Sai University of Technology from 2nd April to 6th April-2019 .

[Signature]
Dr. S.K. Sarangi
HOD, Mechanical Engg.

[Signature]
Dr. S. Panda
Co-ordinator TEQIP

[Signature]
Prof. P. R. Das
Dean, CDCE



SHORT TERM COURSE

on

Basics of Computational Fluid Dynamics (BCFD-2020)

[June 29 - July 03, 2020]



(NATIONAL INSTITUTE OF TECHNOLOGY JAMSHEDPUR, INDIA)

Certificate

This is to certify that **Dr. DEBASMITA MISHRA** of **VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA** has participated in the **TEQIP-III** sponsored short-term course on **Basics of Computational Fluid Dynamics (BCFD-2020)** organized by Department of Mechanical Engineering, National Institute of Technology Jamshepur, Jharkhand, India held during **June 29 - July 03, 2020**.


Dr. Satish Kumar

Co-Ordinator


Dr. M. A. Hassan

Co-Ordinator


Dr. D. Hansdah

Co-Ordinator



TEQIP-III Sponsored Workshop

on

Large Scale Dependent Materials Behavior
(LSDMB - 2019)



Organized by

Department of Metallurgy and Materials Engineering
Veer Surendra Sai University of Technology, Burla, Odisha

Certificate of Participation

This is to certify that Dr. Debasmita Mishra from Dept. of Mechanical
Engg. VSSUT, Burla has participated in the above Workshop held at
Veer Surendra Sai University of Technology, Burla, Odisha
from 10th to 14th February, 2019.

Behara
Mr. Gh. Behera & Mr. D. K. Mishra
Convener(s)

Dr. Kamal Pal
Dr. Kamal Pal
HOD, MME

Kapoor
Prof. S. Panda
Coordinator, TEQIP

Das
Prof. P. R. Das
Dean, CDCE



**TEQIP-III Sponsored Workshop
on
Women Empowerment – Universal Human Values
(WEUHV - 2019)**

8th March 2019

Certificate of Participation

This is to certify that *Dr. Debasmita Mishra*
of *VSSUT, Burla*
has attended the TEQIP-III Sponsored Workshop on “Women
Empowerment – Universal Human Values (WEUHV - 2019)”
Organized by Internal Complaint Committee VSSUT, Burla on 8th
March 2019.

Prinid
Convenor WEUHV

Kopanda
TEQIP Coordinator

Department of Mechanical Engineering
Veer Surendra Sai University of Technology, Burla
Siddhi Vihar, Burla-768018

Short Term Course under Quality Improvement Programme
On

**Numerical Modeling of Heat Transfer and
Fluid Flow Using OpenFOAM (NMHTFF)**



CERTIFICATE OF PARTICIPATION

This is to certify that

MS. SUNITA SINGH NAIK

has attended the Short-term course on
**Numerical Modeling of Heat Transfer and
Fluid Flow Using OpenFOAM (NMHTFF)**

organized by Department of
Mechanical Engineering, VSSUT, Burla

during 26th to 31st March 2018,

under the sponsorship of
Quality Improvement Programme,
AICTE, Govt. of India.


Course Coordinator(s)


Head of Department


Dean, CDCE &
QIP Coordinator

DEPARTMENT OF MECHANICAL ENGINEERING
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA
SIDDHI VIHAR, BURLA - 768018, ODISHA

Short Term Course under Quality Improvement Programme
on
ENGINEERING MATERIALS, DESIGN & APPLICATIONS (EMDA -2018)

23rd – 28th April 2018



Certificate of Participation

This is to certify that, Mr/Ms/Dr. Sunita Singh Naik
has attended the Short term course on Engineering Materials, Design & Applications
(EMDA-2018) Organized by VSSUT, Burla during 23rd to 28th April 2018, under the
sponsorship of Quality Improvement Programme, AICTE, Govt. of India.


Course Coordinator
28/4/18


Head of Department


Dean, CDCE, &
QIP Coordinator




Department of Mechanical Engineering
Veer Surendra Sai University of Technology, Burla
Sambalpur-768018, ODISHA


AICTE QIP Short Term Course
On
MATERIALS, MANUFACTURING & MANAGEMENT
(MMM-2018)

14th- 26th May, 2018

Certificate of Appreciation

This is to certify that *Ms. Sunita Singh Naik*
of *VSSUT, Burla*
has successfully organized a Short Term Course on MATERIALS,
MANUFACTURING & MANAGEMENT (MMM-2018) at Department
of Mechanical Engineering, Veer Surendra Sai University of
Technology, Burla, Odisha during 14th-26th May 2018 under the
sponsorship of Quality Improvement Programme, AICTE, Govt.
of India.


Prof. P. K. Hota
Dean, CDCE


Prof. Atal Choudhury
Vice-Chancellor



**Department of Mechanical Engineering
Veer Surendra Sai University of Technology, Burla
Sambalpur-768018, ODISHA**

TEQIP-III Sponsored Workshop

on

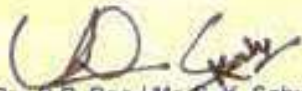
**APPLICATION OF OPTIMIZATION TECHNIQUES ON
ADVANCED MANUFACTURING PROCESSES**


(AOTAMP-2019)

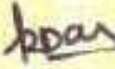
25th- 30th March, 2019


Certificate of Participation

*This is to certify that Ms. Sunita Singh Naik.....
of VSSUT, Burla.....
has participated in TEQIP-III Sponsored Workshop on
APPLICATION OF OPTIMIZATION TECHNIQUES ON ADVANCED
MANUFACTURING PROCESSES (AOTAMP-2019) at Department
of Mechanical Engineering, Veer Surendra Sai University of
Technology, Burla, Odisha during 25th-30th March 2019.*


Dr. C.R. Deo / Mr. S.K. Sahu
Coordinators


Coordinator, TEQIP


Dean, CDCE


Head of Department
Mech. Engg. Deptt.

CERTIFICATE OF PARTICIPATION

Department of Chemical Engineering
Veer Surendra Sai University of Technology, Odisha, Burla



TEQIP-III Sponsored Workshop
On

NEW TRENDS IN RENEWABLE ENERGY AND ENVIRONMENTAL SCIENCES (NTREES - 2018)

This is to certify that,

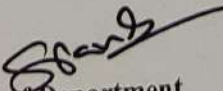
Mrs. JANAKI DEHURY

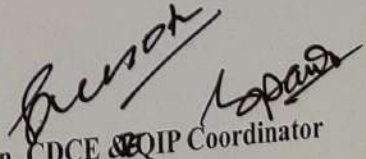
of VSSUT

has attended the TEQIP-III Sponsored Workshop on
NEW TRENDS IN RENEWABLE ENERGY
AND ENVIRONMENTAL SCIENCES
(NTREES - 2018)

organized by
Department of Chemical Engineering,
VSSUT, Odisha, Burla
from 23rd to 27th July 2018.


Course Convenors


Head of Department


Dean, CDCE & TEQIP Coordinator



Department of Mechanical Engineering
Veer Surendra Sai University of Technology, Burla
Sambalpur-768018, ODISHA

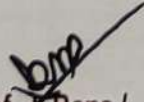
AICTE QIP Short Term Course
On
MATERIALS, MANUFACTURING & MANAGEMENT
(MMM-2018)

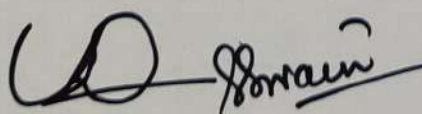
14th- 26th May, 2018

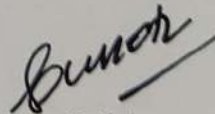
Certificate of Participation

This is to certify that *Ms Janaki Dehury*
of *VSSUT, Burla*

has attended the AICTE QIP Short Term Course on **MATERIALS, MANUFACTURING & MANAGEMENT (MMM-2018)** organized by Department of Mechanical Engineering, Veer Surendra Sai University of Technology, Burla, Odisha during 14th - 26th May 2018 under the sponsorship of Quality Improvement Programme, AICTE, Govt. of India.


Prof. J. Rana / Dr. C. R. Deo / Ms. S. S. Naik
Course Coordinator (s)


Dr. S. K. Sarangi
Head of Department


Prof. P. K. Hota
Dean, CDCE &
Coordinator, QIP



TEQIP III

FACULTY INDUCTION WORKSHOP

Indian Institute of Technology Kharagpur

Certificate of Participation

This is to certify that..... **Sunita Singh Naik**.....
of **VSSUT Burla, Odisha**.....participated in the Faculty Induction
Workshop organised by Continuing Education Cell, IIT Kharagpur from 12th to 16th June, 2018.

A. Goswami
Dean (CE)

N. Dhang
Coordinator





Veer Surendra Sai University of Technology

Burla - 768018

TEQIP-III Sponsored Workshop

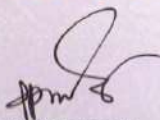
on

**Advanced Techniques for Characterization and
Optimization of Mechanical Systems**


2nd - 6th April, 2019

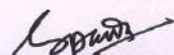
CERTIFICATE OF PARTICIPATION


This is to certify that *Mr. Gautam Behera* of Dept. of *M. B. M. Engg.*,
VSSUT, Burla
successfully completed the workshop, ATCOMS-2019 held at Veer Surendra
Sai University of Technology from 2nd April to 6th April-2019 .


Dr. P. P. Mohanly
Convenor

Dr. Swagatika Mishra
Convenor


Dr. S.K. Sarangi
HOD, Mechanical Engg.


Dr. S. Panda
Co-ordinator TEQIP


Prof. P. R. Das
Dean, CDCE



TEQIP-III Sponsored Workshop
on
Large Scale Dependent Materials Behavior
(LSDMB - 2019)

TEQIP

Organized by

Department of Metallurgy and Materials Engineering
Veer Surendra Sai University of Technology, Burla, Odisha

Certificate of Participation

This is to certify that Mr. Gautam Behera from Dept. of Metallurgy & Materials Engg. has participated in the above Workshop held at Veer Surendra Sai University of Technology, Burla, Odisha from 10th to 14th February, 2019.

G. Behera

D. K. Mishra

K. Pal

S. Panda

P. R. Das

Mr. Gh. Behera & Mr. D. K. Mishra
Convener(s)

Dr. Kamal Pal
HOD, MME

Prof. S. Panda
Coordinator, TEQIP

Prof. P. R. Das
Dean, CDCE

CERTIFICATE OF PARTICIPATION

Department of Chemical Engineering
Veer Surendra Sai University of Technology, Odisha, Burla



TEQIP-III Sponsored Workshop

On

NEW TRENDS IN RENEWABLE ENERGY AND ENVIRONMENTAL SCIENCES (NTREES - 2018)

This is to certify that,

Mr. GOUTAM BEHERA

of VSSUT

has attended the TEQIP-III Sponsored Workshop on
**NEW TRENDS IN RENEWABLE ENERGY
AND ENVIRONMENTAL SCIENCES
(NTREES - 2018)**

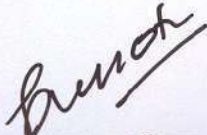
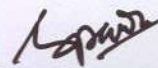
organized by

Department of Chemical Engineering,
VSSUT, Odisha, Burla
from 23rd to 27th July 2018.



Course Convenors


Head of Department



Dean, CDCE & TEQIP Coordinator



Indian Institute of Technology Bombay
Continuing Education &
Quality Improvement Programmes (CE & QIP)

CERTIFICATE

This is to certify that

Dinesh Kumar Mishra

has participated in the AICTE Sponsored
one-week QIP Short Term

**First Course in Computational fluid Dynamics: Development, Application and
Analysis(FCCFD-2018)**

conducted by IIT Bombay during June 25 -29, 2018

Preeti Rao

Prof. Preeti Rao

Professor-In-Charge (CE & QIP)

Atul Sharma

Prof. Atul Sharma

Course Coordinator

No.CE&QIP/ME/Q-13/2018-2019/37

AI QUAD CAMERA
REDMI NOTE 9 PRO



भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर
Indian Institute of Technology Bhubaneswar

Ministry of Human Resource Development
Government of India



Gian

GLOBAL INITIATIVE OF ACADEMIC NETWORKS

Certificate of Participation

This is to certify that

Dr. Renu Prava Dalai

from

Veer Surendra Sai University of Technology, Burla, Odisha

participated in the short-term course conducted by the School of Infrastructure, IIT Bhubaneswar, on

Cost Effective and Sustainable Solutions for Management of Hazardous Waste

December 11 - 15, 2018

Behera

Dr. M. Behera
Coordinator

R.R. Dash

Dr. R.R. Dash
Coordinator

S.K. Mahapatra

Dr. S.K. Mahapatra
Dean
Continuing Education



SRICCE

Sponsored Research,
Industrial Consultancy and
Continuing Education

SHORT TERM COURSE
National Institute of Technology
ROURKELA

Certificate of Participation

This is to certify that Dr./Mr./Ms. Remprava Dalai of V.S.S.U.T., Burla.
has participated in short term course on “**Powder Metallurgy: Fundamentals, Applications and Advancement**”
organized by Department of Metallurgical and Materials Engineering at National Institute of Technology, Rourkela during
1- 5 July, 2019.

Chaitra

Course Co-ordinator

S. S. Dalai

Head of the Dept.

R. J. Kar

Head of the Institute



TEQIP-III Sponsored Workshop
on
Large Scale Dependent Materials Behavior
(LSDMB - 2019)

TEQIP

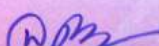
Organized by


Department of Metallurgy and Materials Engineering
Veer Surendra Sai University of Technology, Burla, Odisha

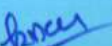
Certificate of Participation

This is to certify that Mrs. Sasmita Acharya from Dept. of MCA
VSSUT, BURLA has participated in the above Workshop held at
Veer Surendra Sai University of Technology, Burla, Odisha
from 10th to 14th February, 2019.


Mr. Gh. Behera & Mr. D. K. Mishra
Convener(s)


Dr. Kamal Pal
HOD, MME


Prof. S. Panda
Coordinator, TEQIP


Prof. P. R. Das
Dean, CDCE

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR
Centre for Development of Technical Education



Participation Certificate

This is to certify that Mr. **Gautam Behera** from **VSSUT Odisha** attended short term course/workshop on "**Mechanical Behaviour of Materials**" conducted by the **Department of Materials Science and Engineering, IIT Kanpur** from 30 Oct to 3 Nov 2018.

Sudha
Course Coordinators

Monica Katyan
Head, MSE Dept.

[Signature]
Head, CDTE/QIP

गुण अभिवृद्धि कार्यक्रम
QUALITY IMPROVEMENT PROGRAMME



भारतीय प्रौद्योगिकी संस्थान रुड़की
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE (UTTARAKHAND)

QIP/2019-20/3/41

This is to certify that..... **Bibhuti Prasad Sahoo**participated in
AICTE sponsored QIP short term course on..... **"Microgrid Stability, Protection
and Control"**
held from..... **27.05.2019** to **31.05.2019 (One Week)**
organized by Department of **Electrical Engineering**

(Prof. C.P. Gupta)

(Prof. Avik Bhattacharya)

Course Coordinator(s)

(Vimal Chandra Srivastava)
Coordinator, QIP



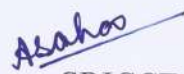
National Institute of Technology Rourkela
Center of Excellence on Renewable Energy Systems
Department of Electrical Engineering



Certificate of Participation

This is to certify that Bibhuti Prasad Sahoo of VSSUT Burla, Odisha has successfully completed the Short Term Course on "Power Electronics and Control Aspects of Microgrid Systems" organized by the Center of Excellence on Renewable Energy Systems, Dept. of Electrical Engineering during 26th - 30th Dec, 2018.


Coordinator


Dean, SRICCE

CERTIFICATE OF PARTICIPATION

Department of Chemical Engineering
Veer Surendra Sai University of Technology, Odisha, Burla



TEQIP-III Sponsored Workshop

On

NEW TRENDS IN RENEWABLE ENERGY AND ENVIRONMENTAL SCIENCES (NTREES - 2018)

This is to certify that,

Mr. BIBHUTI PRASAD SAHOO

of VSSUT

has attended the TEQIP-III Sponsored Workshop on

NEW TRENDS IN RENEWABLE ENERGY AND ENVIRONMENTAL SCIENCES

(NTREES - 2018)

organized by

Department of Chemical Engineering,

VSSUT, Odisha, Burla

from 23rd to 27th July 2018.



Course Convenors


Head of Department



Dean, CDCE & TEQIP Coordinator



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA

QIP Sponsored Short Term Course on
"Modeling Analysis & Control of Microgrid"
(MACMG-2018)

25th June - 07th July, 2018

Organized by

DEPARTMENT OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION



This is to certify that Mr/Mrs/ Prof./Dr. *Mr. Bibhuti Prasad Sahoo*
of *VSSUT, Burla*

has attended the Short-term course on "Modeling Analysis & Control of Microgrid
(MACMG-2018)" organized by Department of Electrical Engineering, VSSUT, Burla during 25th
June - 07th July, 2018 under the sponsorship of Quality Improvement Programme (QIP), AICTE,
Govt. of India.

M. Tripathy N. Saha
Dr. M. Tripathy / Mrs. N. Saha
Course Coordinator(s)

B. Mohanty
Dr. B. Mohanty
Head of Department

P. K. Hota
Prof. P. K. Hota
Dean, CDCE &
QIP Coordinator

DEPARTMENT OF CHEMICAL ENGINEERING
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY
SIDDHI VIHAR, BURLA - 768018, ODISHA

TEQIP-III Sponsored Workshop
on
MODELING, SIMULATION AND DATA ANALYSIS
FOR EXPERIMENTAL RESEARCH (MSDAER - 2019)

28.01.2019 to 01.02.2019



Certificate of Participation

This is to Certify that

Manila Malik

has participated in

TEQIP-III Sponsored Workshop

MODELING, SIMULATION AND DATA ANALYSIS
FOR EXPERIMENTAL RESEARCH (MSDAER - 2019)

Organized by

Department of Chemical Engineering

Veer Surendra Sai University of Technology, Odisha, Burla

from 28th January to 1st February, 2019.

Lipika
Adhil
Course Conveners

[Signature]
Head of Department

[Signature]
[Signature]
Dean, CDCE &
TEQIP Coordinator



**TEQIP-III Sponsored Workshop
on
Women Empowerment – Universal Human Values
(WEUHV - 2019)**

8th March 2019

Certificate of Participation

*This is to certify that ... Dr. Manila Mallick
of VSSUT, Burla
has attended the TEQIP-III Sponsored Workshop on "Women
Empowerment - Universal Human Values (WEUHV - 2019)"
Organized by Internal Complaint Committee VSSUT, Burla on 8th
March 2019.*


Convenor WEUHV


TEQIP Coordinator



Department of Mechanical Engineering
Veer Surendra Sai University of Technology, Burla
Sambalpur-768018, ODISHA

TEQIP-III Sponsored Workshop
on
APPLICATION OF OPTIMIZATION TECHNIQUES ON
ADVANCED MANUFACTURING PROCESSES
(AOTAMP-2019)
25th- 30th March, 2019

Certificate of Participation

This is to certify that *Dr. Manila Mallik*.....
of *VSSUT, Burla*.....
has participated in TEQIP-III Sponsored Workshop on
APPLICATION OF OPTIMIZATION TECHNIQUES ON ADVANCED
MANUFACTURING PROCESSES (AOTAMP-2019) at Department
of Mechanical Engineering, Veer Surendra Sai University of
Technology, Burla, Odisha during 25th-30th March 2019.


Dr. C.R. Deo / Mr. S. K. Sahu
Coordinators


Coordinator, TEQIP


Dean, CDCE


Head of Department
Mech. Engg. Deptt.

CERTIFICATE OF PARTICIPATION

Department of Chemical Engineering
Veer Surendra Sai University of Technology, Odisha, Burla



TEQIP-III Sponsored Workshop

On

NEW TRENDS IN RENEWABLE ENERGY AND ENVIRONMENTAL SCIENCES (NTREES - 2018)

This is to certify that,

Dr. MANILA MALLIK

of VSSUT

has attended the TEQIP-III Sponsored Workshop on

NEW TRENDS IN RENEWABLE ENERGY AND ENVIRONMENTAL SCIENCES

(NTREES - 2018)

organized by

Department of Chemical Engineering,

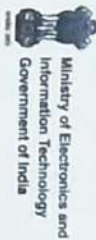
VSSUT, Odisha, Burla

from 23rd to 27th July 2018.

NPatel
Chakr
Course Convenors

Bhand
Head of Department


Bunah
Sparid
Dean, CDCE & TEQIP Coordinator





ELECTRONICS & ICT ACADEMY
NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, (T.S.), INDIA
 and
 Department of Computer Science and Engineering, NITW


Participation Certificate

This is to certify that.....**Prasanta Kumar Parida**, Assistant Professor
 from.....**Veer Surendra Sai University of Technology, Burla, Odisha**
 has participated in MeitY, Govt. of India, Sponsored One Week Faculty Development Programme on
"Machine Learning in Image and Computer Vision Applications" Organized by the E&ICT Academy,
 NIT Warangal and Department of Computer Science and Engineering, NIT, Warangal from 24th - 29th June, 2019.
 The performance of the candidate is satisfactory.


Dr. M. Srinivas
 Coordinator, Dept. of CSE,
 NIT Warangal


Dr. M. Sandhya
 Coordinator, Dept. of CSE,
 NIT Warangal

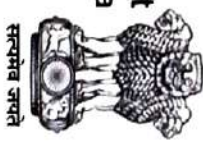

Prof. R.B.V. Subramanyam
 Head & Chief Investigator E & ICT Academy,
 NIT, Warangal


Prof. N.V. Ramana Rao
 Director
 NIT Warangal



भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर
Indian Institute of Technology Bhubaneswar

Ministry of Human Resource Development
Government of India



gijan

GLOBAL INITIATIVE OF ACADEMIC NETWORKS

Certificate of Participation

This is to certify that

Manila Mallik

from

Veer Surendra Sai University of Technology, Burla, Odisha

participated in the short-term course conducted by the School of Infrastructure, IIT Bhubaneswar, on

Cost Effective and Sustainable Solutions for Management of Hazardous Waste

December 11 - 15, 2018

Behera

Dr. M. Behera
Coordinator

Dash

Dr. R.R. Dash
Coordinator

Mahapatra

Dr. S.K. Mahapatra
Dean
Continuing Education



Workshop on Machine Learning for Medical Image Analysis 2018



17-21 September 2018 | Kharagpur, India

Certificate of Participation

The organizing committee of the
Workshop on Machine Learning for Medical Image Analysis 2018
(WMLMIA 2018)
places on record the participation of

Sakambhari
VSSUT, Burla, Sambalpur

during 17-21 September 2018 at the
Indian Institute of Technology Kharagpur, India

Dr. Debdoot Sheet
Joint Coordinator
WMLMIA 2018

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International Journal of Adaptive Control and Signal Processing / Volume 32, Issue 10 / p. 1489-1507

RESEARCH ARTICLE

Tracking of power quality disturbances using sparse model-based extended Kalman filters

Harish Kumar Sahoo , Umamani Subudhi, Sanjeev Kumar Mishra

First published: 03 September 2018

<https://doi.org/10.1002/acs.2925>

Citations: 1

Summary

Accurate estimation and tracking of power quality (PQ) disturbances requires efficient adaptive model-based techniques, which should have elegant structures to be applicable in practical systems. Though extended Kalman filter (EKF) has been used as a popular estimator to track the time-varying PQ events, the performance is limited due to higher-order nonlinearity exists in system dynamics. Moreover, the computational complexity and sensitivity to the measurement noise affect the estimation accuracy and error convergence properties. If the underlying sparse behavior of adaptive filters can be exploited through norm penalty, then significant improvement can be achieved in terms of convergence speed, stability, and steady state excess mean square error performance. In this paper, a modification to EKF is proposed by using sparse model to estimate PQ disturbances with better estimation accuracy and faster convergence speed. A thorough comparison is presented in terms of simulation results by using a family of existing algorithms like least mean square, recursive least square, and EKF. Adaptive estimation model incorporates real and complex state space representations to represent discrete time PQ disturbances. The convergence of the proposed sparse model-based filter is also mathematically proved considering the mean square error performance.

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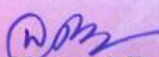
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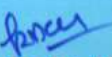
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Articles

Conditional nearest regularized subspace classifiers: a fast classification approach for HSI

Ram Narayan Patro , Subhashree Subudhi, Pradyut Kumar Biswal ,

Fabio Dell'Acqua & Harish Kumar Sahoo

Pages 9279-9303 | Received 01 Oct 2018, Accepted 15 Apr 2019, Published online: 21 Jun 2019

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ABSTRACT

Classification is an important problem in a large variety of applications, which makes it an open-ended forum for researchers in various disciplines. In this paper, the proposed two approaches are mostly focused on Nearest Regularized Subspace (NRS)

classifier. The proposed pair of variants are: (1) reducing the computational complexity of NRS classifier termed as Conditional Fast Nearest Regularized Subspace (CFNRS)

classifier and (2) incorporation of dissimilarity feature termed as Conditional Dissimilarity-based Nearest Regularized Subspace (CDNRS) classifier. Regarding the first approach, the simple k -NN classifier result is used as a condition to evaluate NRS classifier. Regarding the second approach, an intra-feature dissimilarity measure is considered to create a pair of dictionary which contains a conditional binary matrix and a dissimilarity feature matrix. Each conditional binary matrix is a collection of distinct sub-spaces representing their respective classes. The incoming data is classified with the help of a dictionary and classification performance is validated over other state-of-art approaches. As Hyper-Spectral (HS) data have a strong spectral correlation in terms of spectral signatures, various such HS data are included for validation of our approach. The experimental study reveals the pros and cons of different classifiers along with the effectiveness of our proposed approach. The proposed conditional classifier is found to be able to compete with other, standard classifiers in terms of accuracy and computational complexity, mostly where features possess some sort of sequence information. The suitability of the proposed classifier is also verified for both binary and multi-class classification problems. Along with the experimental validation, the statistical significance of the proposed conditional measure is assessed over other standard state-of-art methods, and the proposed one outperformed the others. The experimental results reveal the importance of dissimilarity features for classification and also suggest to incorporate a simple classifier such as k -NN, prior to any other classifier. This is mainly meant to reduce the computational complexity of the selected classifier without compromising the accuracy.

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We acknowledge the support of IIIT, Bhubaneswar for providing rich online library resources. We are thankful to Prof. Biiian Patel for the mathematical assistance. Also.



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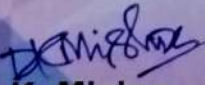
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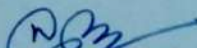
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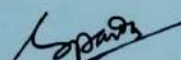
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
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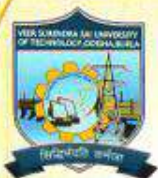
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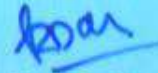
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This is to certify that Mr Nilakantha Sahu worked on a project entitled "Experimental study of fiber laser weldment of SS316L by response surface method" during May - July 2019 as a Summer Research Fellow under the supervision of Dr Manas Das, Indian Institute of Technology, Guwahati. The Summer Research Fellowship Programme is jointly sponsored by IASc (Bengaluru), INSA (New Delhi) and NASI (Prayagraj).

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Place: Bengaluru

Date: 17-09-2019

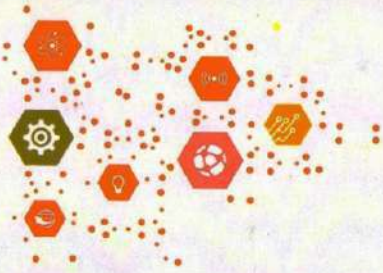
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Department of MME

The department of Metallurgical & Materials Engineering (MME) at VSSUT Burla, established in 2013, is a unique initiative in the present science and technology education and research scenario of India. This Department is devoted to the design, creation and fundamental understanding of materials that are capable of enhancing the human experience. At present; the department offers a 4-year undergraduate course and PhD program in engineering. Currently, the focuses of department activities are multi-directional with an emphasis on both research and education. Even at its incipient stage, the department has drawn a road map to progress via partnership. Accomplishments in this direction include: (a) Collaboration with the Institute of IITS and NITS; (b) Setting up a collaboration with different government research organization like Defense Research Development Organization and National Metallurgical Laboratory (NML), Jamshedpur; IMMT Bhubaneswar (c) and also collaborating with other metallurgical industries like Steel, Aluminum and Iron to bridge the gap between theoretical knowledge and real world industries requirements.

TEQIP-III Sponsored Short Term Training Programme (STTP-2019)

**On
Synthesis, Processing and Characterization
of Advanced Materials (SPCAM – 2019)
7th-16th April 2019**

Organized by

**Department of Metallurgical and
Materials Engineering**



**Veer Surendra Sai University of Technology
Siddhi Vihar, Burla, Sambalpur
Odisha – 768018
India**

**Dr. Renu Prava Dalai
Dr. Manila Mallik
Mrs. Subhadra Sahoo**

Convener(s)

**Mr. Dinesh Kumar Mishra
Mr. Gautam Behera
Mr. Nilakantha Sahu**

Co-Convener(s)

The TEQIP-III Sponsored Short Term Training Programme (STTP) on “*Synthesis, Processing and Characterization of Advanced Materials (SPCAM – 2019)*” will be held at VSSUT, Burla on 7th-16th April 2019 with the following broad objectives.

- To promote education, research and training in emerging and recent trends in computational advancement of knowledge and betterment of the society.
- To improve the quality of technical education, research and training in Advanced Materials Science, Composite Materials, Texture and Soft Materials.
- To provide facilities and opportunities to inspire graduate, post-graduate, Ph.D. scholars and faculty members for collaborative research works.
- To foster co-operation and interaction between the academic/research community with industries to exchange knowledge and information about the latest developments in relevant areas of teaching and research.

Theme of the STTP

The STTP will provide a unique opportunity for participants to understand the recent advances in Advanced Materials Science, Composite Materials, Texture and Soft Materials.

Resource Persons for the STTP

1. Prof. Bankim Chandra Ray, NIT Rourkela
2. Prof. Ritwik Sarkar, NIT Rourkela
3. Dr. Amritendu Roy, IIT Bhubaneswar
4. Dr. Mayadhar Debta, IMMT Bhubaneswar
5. Dr. Tapan Kumar Rout, TATA Steel
6. Dr. Dillip Kumar Pradhan, NIT Rourkela
7. Dr. Sudip Sinha, NIT Raipur
8. Prof. S. C. Patnaik, IGIT Sarang
9. Dr. Chandra Sekhar Tiwary, IIT Kharagpur
10. Dr. Ram Sanjeevan Maurya, NIT Rourkela
11. Prof. S.K.Swain, VSSUT Burla

Events of the STTP

- Registration and inaugural function
- 14 technical sessions and 2 lab sessions
- Q & A with experts
- Certificate distribution and valedictory function

Registration

Interested participants from industry, academic and research community are required to submit a filled and signed registration form (soft or hard copy) in prescribed format along with the registration fees in the form of DD drawn in favor of “**Convener(s), SPCAM – 2019**” payable at Syndicate Bank, VSSUT, Burla so as to reach the following address “**The Convener (SPCAM – 2019), Department of MME, VSSUT Burla – 768018, Odisha, India**” on or before 4th April 2019. Hand delivered application is also accepted. **There is no TA, DA and accommodation for the participants.** However, the participants may get the list of nearby hotels by sending a request mail to convener of this workshop. Selection will be based on first come first served basis. Selected participants are intimated through email on or before 4th April 2019. Registration fee includes workshop kit, workshop materials, participation certificate, High tea and grand lunch.

Registration Fee

Category	Fee
Research Scholar/ Student (VSSUT)	Nil
Research Scholar / Student (Others)	Nil
Academician / Faculty Member (others) / Industry Person	500/-
Faculty Member (VSSUT)	500/-

Contact

Email: dalai.renu@gmail.com
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Mob:(+91) 9439577301
(+91) 9437261616
(+91)8763520224

TEQIP-III Sponsored Short Term Training Programme (STTP) On Synthesis, Processing and Characterization of Advanced Materials (SPCAM – 2019) 7th -16th April 2019

Registration Form

1. Name:.....
2. Designation:.....
3. Organization:.....
4. Qualification:.....
5. Gender: Male/Female
6. Address:.....
.....
.....
7. Phone/Mobile:.....
8. E-mail:.....
9. Mode of Payment: Cash/DD/NEFT
10. Amount:.....

Place:

Date:

Signature of the Applicant

Copies of this form can be made, if necessary. Please send the filled in form to the Convener on or before **4th April 2019**. The details and the form of the workshop can be downloaded from <http://www.vssut.ac.in>

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

Centre for Continuing Education



Participation Certificate

*This is to certify that Dr./Mr./Ms. **Manila Mallik** from VSS University of Technology, Burla, Sambalpur, Odisha attended short term course on "Advanced Scanning Electron Microcopy & Microanalysis" conducted by the Advanced Center for Materials Science from March 11-15, 2019.*

[Signature]
[Signature]
K. Kulkarni, S. Shekhar & Gouthama

Course Coordinators

[Signature]
Prof. Jayant K. Singh
Head, CCE/OIP



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA



Certificate of Participation

to

Dr. Manila Mallik, VSSUT, Burla

In recognition of completion of AICTE QIP Short Term Course

on

**Functional Engineering Material: Technology, Modeling and Analysis
(FEMTMA-2018)**

*held at Department of Production Engineering,
Veer Surendra Sai University of Technology, Burla
from 25th June to 07th July 2018.*


Prof. D. Mishra, Dr. P. C. Jena
Course Coordinator(s)


Prof. D. Dhupal
Head of Department


Prof. P. K. Hota
Coordinator, QIP