Resume

Dr. CHANDRA BHAN VISHWAKARMA

Associate Professor, Dept. of Electrical Engg.
Harcourt Butler Technical University (HBTU)
Nawabganj, Kanpur-208002, UP (INDIA)
Email: cvishwakarma@hbtu.ac.in, cbvishwa@gmail.com
Mobile: 9718462122

Personal Profile:

Father's Name : Late Sh. R.P. Vishwakarma

Date of Birth : 16th April 1975

Marital Status : Married

Nationality : Indian

Current Job: working as Associate Professor in Electrical Engineering Department of HBTU, Kanpur, from 28.06.2022.

Educational Qualifications:

Qualifications	Institute	Specialization	Year of passing	Division
Ph.D	Indian Institute of Technology Roorkee	Model Order Reduction and Controller Design	9th July 2010	NA
M.Tech	Indian Institute of Technology Roorkee	System Engineering and Operation Research (EE)	2002	First
B.E.	University of Roorkee (IITR)	Electrical Engineering	1998	First
12th	Rastriya Inter College, Kanpur	PCM, English	1991	First
10th	Rastriya Inter College, Kanpur	Maths, Science, Hindi, English	1989	First

Working Experience:

Designation	College/Univ.	Department	Date of Joining	Date of Leaving
Lecturer	College of Engineering Roorkee	Electrical Engineering	14th March 2002	13th May2003
Assistant Professor	FET, Gurukul Kangri University, Haridwar	Electrical Engineering	14th May 2003	4th July 2011
Associate Professor	Galgotias College of Engineering & Tech., Greater Noida	Electrical Engineering	5th July 2011	6th Sept 2016
Assistant Professor	School of Engineering, Gautam Buddha University,, Greater Noida	Electrical Engineering	7th Sept 2016	27th June 2022
Associate Professor	Harcourt Butler Technical University (HBTU), Kanpur	Electrical Engineering	28th June 2022	Till date

Details of Ph.D Scholars Supervision:

PhD Scholar	Topic of Research	University Name	Date of RDC	Date of Completion
Jay Singh	Model Order Reduction for Power Systems Control	Indian School of Mines, Dhanbad	July 2012, Submission date: Dec 2015	Feb 2016
Abha Kumari 17/PhD/Engg/003	Order Reduction Of Linear Dynamic Systems for Controller Design	EED, SOE Gautam Buddha University, Greater Noida	22 July 2019	12 March 2022 (Final Viva Conducted)
Deepa Kumari 20/PhD/Engg./EE/003	Development of Order Reduction Methods for Linear Continuous-time and Discrete-time systems	EED, SoE Gautam Buddha University, Greater Noida	08 March-2022 (RDC conducted)	------
Arun Singh Rana 20/PhD/Engg/EE/002	Design of Controllers for Load frequency Control (LFC) of Power system models and their performance analysis	EED, SoE Gautam Buddha University, Greater Noida	08 March-2022 (RDC conducted	-------

Areas of Research Interest:

- Model Order Reduction of linear and nonlinear dynamic systems.
- Controller Design: PID, Fuzzy, Neuro-Fuzzy, MPC, PLC, IMC, etc.
- Intelligent Controls
- Artificial Intelligence and Machine Learning
- Engineering Optimizations
- Fractional Order Modelling and Control

Administrative Responsibilities:

1) In-Charge HEAD, Electrical Engineering Department at Gurukul Kangri University, Haridwar from May 2003 to July 2011

2) Member of Proctorial Board at Gurukul Kangri University, Haridwar

3) Head-EE Department at Galgotias College of Engineering & Technology, Gr. Noida from July 2011 to Sept 2016

4) In-Charge **Assistant Registrar (Examinations)** at Gautam Buddha University, Greater Noida from 23 June 2020 to 27.06.2022.

Departmental /Other Responsibilities:

1) Time-Table Coordinator of EE Department at GBU, Gr. Noida from 2017
2) School Maintenance In-Charge of SOE at GBU, Gr. Noida from 2017 to 2020.
3) University Exam Coordinator/Committee Member, GBU, Gr. Noida from 2017
4) Prof. Lab. In-charge of Electrical Technology Lab at GBU from 2016
5) Prof. Lab. In-charge of Electrical Machines Lab at GBU from 2017 to 2020
6) Prof. Lab. In-charge of Electrical Measurements Lab at GBU from 2017 to 2020
7) Prof. Lab. In-charge of EDC lab from 2020

Details of M.Tech Dissertations Supervised:

1) Anil Chahar (12/IEE/008), May 2017, **Load Frequency Control VIA Internal Model Control (IMC) schemes**, EE Department, GBU, Greater Noida.
2) Yashwant Yadav (12/IEE/030), May 2017, **Design and Performance Comparison of Various Controllers for DC-Servomotor Control**, EE Department, GBU, Greater Noida.
3) Ekta Gautam (16/PPS/002), May 2018, **Load Frequency Control of Single Area Power System Through Various Controllers**, EE Department, GBU, Greater Noida.
4) Rajesh Kumar (16/PPS/009), May 2018, **Grid-Connected PV-Wind-Battery based Bidirectional DC-DC Converter for Domestic Applications**, EE Department, GBU Greater Noida.
5) Rahul Padey (13/IEE/027), May 2018, **Internal Model Control Schemes for Load Frequency Control of Single-Area Power System**, EE Department, GBU Greater Noida.
6) Vishal Kumar (11/IEE/120), May 2018, **Energy Audit of Gautam Buddha University**, EE Department, GBU Greater Noida.
7) Grijesh Kumar (13/IEE/012), May 2018, **Design and Performance Comparison of Various Controllers for Speed Control of DC Motor**, EE Department, GBU Greater Noida.
8) Sushant Shekhar (13/IEE/040), May 2018, **Brain Tumor Segmentation and Detection From MRI using Convolution Neural Network and wavelet Transform Technique**, EE Department, GBU Greater Noida.
9) Tripti Kunj (16/PPS/006), May 2018, **Transmission Line Fault Identification and Classification using wavelet energy information based ANN and ANFIS Technique**, EE Department, GBU Greater Noida.
10) Gaurav Kumar (13/IEE/011), May 2019, **Electric Power Generation using Speed Breakers**, EE Department, GBU Greater Noida.
11) Harsh Vardhan Chaudhary (14/IEE/016), May 2019, **Controller Design for Two Tank Liquid Level System,** EE Department, GBU Greater Noida.
12) Shubham Kumar (14/IEE/043), May 2019, **Speed and Position Control of DC motor using compensation,** EE Department, GBU Greater Noida.
13) Vishwa Vikash (14/IEE/055), **Analysis and Design of Wind farm for Grid Application**, EE Department, GBU Greater Noida.
14) Lalit Chaudhary (13/IEE/015), May 2019, **Optimal PID Tuning for Speed and Position Control of DC Motor,** EE Department, GBU Greater Noida.
15) Deepansh Pathak (13/IEE/009), May 2019, **Model Order Reduction in Frequency domain for Controller Design**, EE Department, GBU Greater Noida.
16) Vivek Kumar Dwivedi (14/IEE/056), May 2019, **Power Factor Correction of BLDC Motor using LUO Converter**, EE Department, GBU Greater Noida.

17) Neeraj Kumar (15/IEE/026), May 2020, **Controller Design for three tank liquid level system**, EE Department, GBU Greater Noida.
18) Pradeep Kumar (15/IEE/064), June 2020, **Design of single phase transformer through different optimization techniques**, GBU Greater Noida.
19) Yeshvendra Singh (14/IEE/060), May 2020, Design of Power System Stabilizer, GBU, Greater Noida.
20) Chetan Chauhan (15/IEE/016), June2020, **Controller Design for load frequency control of single area/two area power system**, GBU Greater Noida.
21) Sourabh Pratyay (15/IEE/049), June 2020, **IMC Based PID Controller Design for an approximated process model and its analysis using modified pole clustering**, Greater Noida.
22) Aishwarya Shekhar (15/IEE/003), June 2020, **Simulation and Performance comparison of regenerative braking and eddy curren**t **braking system of DC motor**, GBU, Greater Noida.
23) Balendu Shekhar Priyadarshi (15/IEE/061), June 2020, **Speed Control of DC servo motor using PID controller Ziegler-Nichols method,** GBU, Greater Noida.
24) Saahil Chauhan (15/IEE/040), June 2020, **Load frequency Control using compensator**, GBU Greater Noida.
25) Anil Kumar Yadav (15/IEE/010), June 2020, **Model order reduction of linear systems in frequency domain**, GBU Greater Noida.
26) Anjali Bhati (16/IEE/007), June 2021, **Controller Design using Reduced Order Modeling**, GBU, Greater Noida.
27) Prashant Singh (16/IEE/040), June 2021, **Energy Management Systems for a hybrid Electric Source**, GBU, Greater Noida.
28) Annu Pal (16/IEE/013), June 2021, **Design of Model Predictive Control for frequency control of single area power system**, GBU, Greater Noida.
29) Smiriti Gautam (16/IEE/055), June 2021, **Control System Design for MIMO system using IMC**, GBU, Greater Noida.
30) Manish Rai (16/IEE/029), June 2021, **Simulation and Dynamic control of distillation column,** GBU, Greater Noida.
31) Abhishek Kumar (16/IEE/002), June 2021, **Password Based ON-OFF Controller for Circuit**, GBU, Greater Noida.

Short Term Courses/FDP attended:

1) STC on Soft Computing from 27/03/2006 to 31/03/2006 at FET, GKV, Haridwar.

2) STC on Renewable Energy Based Technologies from 12/06/2006 to 16/06/2006 at NITTTR, Chandigarh.

3) STC on MATAB from 25/09/2006 to 29/09/2006 at NITTTR, Chandigarh.

4) STC on Artificial Neural Networks & Fuzzy Logic from 27/11/2006 to 1/12/2006 at NITTTR, Chandigarh.

5) STC on Development of multimedia learning materials from 26/05/2008 to 29/05/2008 at FET, GKV, Haridwar.

6) STC on Advanced Antenna Engg. Through Experimentation from 09/02/2009 to 20/02/2009 at FET, GKV, Haridwar.

7) A orientation course attended in Punjab University Chandigarh from 1/12/2007 to 28/12/2007.

8) FDP on Renewable Energy and Smart Micro-Grids attended from 13-17th march 2019 at Gautam Buddha University, Greater Noida.

Workshop /Seminar/ Webinar /Industrial Visit Organized:

1) An expert lecturer on **Industrial Automation** by **Onetech Automation Pvt. Ltd**.,is conducted on **12.04.2012** in the Department of EE/ICE of Galgotias College of Engineering & Technology.
2) Workshop on **PLC Scada and Robotics**is organized in the department of EE/ICE of Galgotias College of Engineering & Technology on **01.10.2012**, which is conducted by CETPA Info Tech Pvt. Ltd., New Delhi.
3) Workshop on **MATLAB** is organized in the department of EE/ICE of Galgotias College of Engineering & Technology on **15.10.2012**, which is conducted by Aedifico Tech Pvt. Ltd, New Delhi.
4) One Day Workshop on **MATLAB (Programming & Simulation)** is organized in EE Department of Galgotias college of Engineering & Technology on 27.08.2013, which is conducted by CETPA Info Tech Pvt. Ltd., New Delhi.
5) Two Day Matrix Automation by CETPA Info Tech Pvt Ltd is conducted in the GCET on 3 and 4th Sept. 2015, which was organized by Synergy Group of the Students.
6) One day workshop on **MATLAB/Automation** was organized/coordinated in EE department of GCET, Gr. Noida by CETPA Info Tech Pvt Ltd, Noida on 10.02.2016.
7) One day workshop on **MATLAB/Automation** was organized/coordinated in EE department of GCET, Gr. Noida by CETPA Info Tech Pvt Ltd, Noida on 10.02.2016.
8) Industrial visit for EE students of GBU is organized on 22.01.2018 at NPCIL Narora, Uttar Pradesh.
9) One day workshop on **MATLAB** was organized/coordinated in EE department of GBU, Gr. Noida by CETPA Info Tech Pvt Ltd, Noida on 28-03-2018.
10) One day workshop on **IOT** was organized/coordinated in EE department of GBU, Gr. Noida by APTRON, Noida on 27-03-2018.
11) 15 days workshop on **Swachhta Pakhwada** is attended from 1-1-18 to 15-1-18 organized by NSS and DSA GBU under the direction of MHRD and UGC.
12) **FDP** on Renewable Energy and Micro-Grid was coordinated from 13-17th March 2019 at Gautam Buddha University, Greater Noida.
13) One day **Webinar** on Metamaterial Antenna is organized in EED, SOE on 30 June, 2020 at GBU, Greater Noida.
14) An **ElectroQuiz2020** is organized in EED, SOE, GBU, Greater Noida on 13 July 2020.
15) A webinar on Industrial Automation and **PLC-SCADA** is organised with collaboration of SOFCON on 07.11.2020 at SoE, GBU, Greater Noida.

16) One track of Webinar titled as ***Next Gen. Defence Technologies*** in GBU was coordinated on 20.8.2021.

Patent:

1. A patent titled as **A Grid integrated hybrid renewable energy system with optimal controlling of carbon emission for sustainable and Reliable solution**
Date of Application: 28.10.2021.
Date of Publication: 26/11/2021
Application Number: 202111049294 A
Name of Applicant: Dr. Abhinav Saxena- JSS Academy Noida
Name of Inventor: (1) Dr. Abhinav Saxena- JSS Academy Noida
(2) Mr. Gauray Verma- REC Mainpuri, UP
(3) Dr. Aseem Chandel- REC Mainpuri, UP
(4) Mr. Nikhil Chaudhari- REC Mainpuri, UP
(5) Mr. Sachin Pachauri- RECMainpuri, UP
(6) Dr. Chandra Bhan Vishwakarma- GBU, Greater Noida
(7) Dr. Amit Kumar Sharma-GCET, Gr. Noida

Computer skills: C, C++, Python, Excel, MS Office, MATLAB, etc

Languages Known: English, Hindi

Membership: AMIE Institution of Engineers, Life member of IAeng.

Other Information: NCC, NSS, Swakchhata Abhiyan certificates

Publications

International Journals

S.N	Papers Details	Indexing Details
1	Abha Kumari and **C.B. Vishwakarma**, "Order abatement of Linear Dynamic Systems Using Renovated Pole Clustering and Cauer Second Form Techniques", Circuit, Systems and Signal Processing, Vol. 40, No. 9, pp. 4212-4229, DOI:10.1007/s00034-021-01673-1 , March 2021.	**SCIE, SCOPUS** **IF:2.225** **e-ISSN: 1531-5878**
2	Abha Kumari, **C.B. Vishwakarma,** "Renovation in the modified pole clustering technique for the linear dynamic systems" IETE Journal of Research, 10 May 2021. DOI: 10.1080/03772063.2021.1920855	**SCIE, SCOPUS** **IF:2.333** **ISSN: 03772063**
3	Abha Kumari, **C.B. Vishwakarma,** "Conventional and Evolutionary Order Reduction Techniques for Complex Systems", International Journal of Information Technology and Web Engineering, Vol.16, Issue. 4, pp.74-98, Oct 2021	**UGC-Care, SCOPUS, Web of Sci.** **IF: 0** **ISSN: 1554-1045**
4	Abha Kumari, **C.B. Vishwakarma,** "An evolutionary optimization technique for time domain modelling", International Journal of Social Ecology and Sustainable Development, Vol. 13, Issue. 02, article 09, 2021.	**UGC-care, SCOPUS, UGC** **IF=1.08** **ISSN: 1947-8402**
5	Namrta Sharma, C.B. Vishwakarma, "A Hybrid approach for simplification using logarithmic approach and moment matching", International Journal of Social Ecology and Sustainable Development, (Accepted) , 2021	**SCOPUS, UGC** **IF=1.08** **ISSN: 1947-8402**
6	Shikha Tyagi, **C.B. Vishwakarma**, "Dynamic System Simplification and Its Application", International Journal of Engineering and Designing Innovation", Vol. 3, Issue. 2, pp. 1-7, Feb 2021.	**Google Scholar** **IF=0** **ISSN: 25820788**
7	Namrta Sharma, **C.B. Vishwakarma**, "Linear Dynamic System Simplification Using Genetic Algorithm", International Journal of Engineering and Designing Innovation", Vol. 3, Issue. 2, pp. 8-14, Feb 2021.	**Google Scholar** **IF=0** **ISSN: 25820788**
8	**C.B. Vishwakarma**, "Simplification of MIMO Dynamic Systems using Differentiation and Cauer Second Form", International Journal of Computer Sciences and Engineering, Vol.7, Issue-6, pp. 1088-1091, **June 2019**.	**Google Scholar** **IF: 3.802** **ISSN: 23472693**
9	Shikha Tyagi, **C.B. Vishwakarma,** "Dynamic System Simplification using Rectified Logarithmic Pole Clustering Technique", International Journal of Information Science and Computing, Vol. 5, Issue-1, pp. 29-38, June 2018.	**Google Scholar** **IF=0** **ISSN: 23487437**
10	Jay Singh, Kalyan Chatterjee, **C.B. Vishwakarma**, "Two degree of freedom internal model control-PID design for LFC of power system via logarithmic approximations", ISA Transactions **(Elsevie**r), Vol.72, pp.185-196, **2018**.	**SCIE** **IF=5.468** **ISSN:00190578**
11	Shikha Tyagi, **C.B. Vishwakarma**, "System Simplification using simplified Routh approximation method (SRAM) and factor division", International Journal of advance research in science and engineering, Vol. 06, Issue.11, pp. 1648-1654, **November 2017**.	**UGC** **IF=0** **ISSN: 23198346**
12	Shikha Tyagi, **C.B. Vishwakarma**, "Dynamic System Simplification using Differentiation and Cauer Second form", International Journal of advance research in science and engineering, Vol. 06, Issue.10, pp.1640-1645, **October 2017**.	**UGC** **IF=0** **ISSN: 23198346**
13	Namrata Sharma, **C.B. Vishwakarma**, "A simple pole clustering technique for dynamic system simplification" International Journal of advance research in science and engineering, Vol. 06, Issue.10, pp. 1670-1676, **October 2017**.	**UGC** **IF=0** **ISSN: 23198346**
14	Jay Singh, Kalyan Chatterjee, **C.B Vishwakarma**, "Reduced Order Modelling for Linear Dynamic Systems", AMSE Journals-2015 –Series: Advances C:, Vol. 70, No. 1, pp.71-85, **2015**.	**SCI mago** **No Impact Factor**

15	Jay Singh, **C.B Vishwakarma**, Kalyan Chatterjee, "Biased Reduction Method by combining Improved Modified pole Clustering and Improved Pade Approximations", Applied Mathematical Modelling (Elsevier), Vol. 40, No. 2016, pp.1418-1426, 2015.	**SCIE** **Impact Factor=5.129** **ISSN: 0307-904X**
16	**C.B Vishwakarma**, R. Prasad, " Time Domain Model Order Reduction using Hankel Matrix Approach", Journal of The Franklin Institute **(Elsevier),** Vol. 351, Issue. 6, pp. 3445-3456, 2014.	**SCIE** **Impact Factor=4.504** **ISSN: 0016-0032**
17	**C. B. Vishwakarma** and R. Prasad, "MIMO System Reduction using Modified Pole Clustering and Genetic Algorithm", Modelling and Simulation in Engineering, Hindawi Publishing Corporation, USA, Vol. 2009, Article ID 540895, 5 Pages, 2009.	**SCOPUS, Web of Sci.** **No Impact Factor** **ISSN:**1687-5591
18	**C.B Vishwakarma**, "Modified Hankel matrix approach for model order reduction in time domain", International Journal of Physical and Mathematical Sciences, Vol. 8, No.2, pp. 404-410, 2014.	**Google Scholar** **No Impact Factor** doi.org/10.5281/zenodo.1091386
19	Jay Singh, Kalyan Chatterjee, **C.B Vishwakarma**, "System Reduction by Eigen Permutation algorithm and improved Pade approximations", International Journal of Mathematical and Computational Sciences Vol. 8, No.1, pp. 180-184, 2014.	**Google Scholar** **No Impact Factor** doi.org/10.5281/zenodo.1091240
20	Jay Singh, Kalyan Chatterjee, **C.B Vishwakarma**, "MIMO System using Eigen algorithm and improved Pade approximations", SOP Transactions on Applied mathematics, Vol.1, No.1, pp.60-70, 2014.	**No Impact Factor** **ISSN: 2373-8472**
21	Jay Singh, Kalyan Chatterjee, **C.B Vishwakarma**, "System reduction using modified pole clustering and modified cauer fraction", International Journal of Electrical and Computer Engineering, Vol. 8, No.9, pp.1525-1530, 2014.	**Google Scholar** **No Impact Factor** doi.org/10.5281/zenodo.1099050
22	Jay Singh, Kalyan Chatterjee, **C.B. Vishwakarma**, "MOR Development and Applications", International Journal of Advanced research in Electrical Electronics and instrumentation Engg, India, Vol. 1, Issue. 5, pp. 393-400, 2012.	**Google Scholar** **IF: 7.282** **ISSN: 23203765**
23	**C.B Vishwakarma**, "Order Reduction using modified pole clustering and Pade approximations", International Journal of Electrical and Computer Engineering, Vol. 5, No.8, pp. 1003-1007, 2011.	**Google Scholar** **No IF** doi.org/10.5281/zenodo.1059535
24	**C. B. Vishwakarma** and R. Prasad, "Model reduction of SISO systems using modified pole clustering and Genetic Algorithm", International Journal of Mathematical Modelling, Simulation and Applications (IJMMSA), Vol. 1, Issue. 4, October, pp. 459-465, October 2008.	**No Impact Factor** **ISSN: 0973 - 8355**
25	**C. B. Vishwakarma** and R. Prasad, "Systems simplification using pole clustering and factor division algorithm", International Journal of Computer Science, Systems Engineering and Information Technology (Serial Publications), Vol. 3, No. 1, pp. 11-21, January-June 2010.	**Google Scholar** **No Impact Factor** **ISSN: 0974-580**
26	**C.B Vishwakarma** and R. Prasad, "Order Reduction using Modified Pole Clustering and Pade Approximations", International Journal of Embedded Software and Open Source systems, Vol.1 , No. 1 , pp. 11-19, January-June 2011.	**Google Schoalr** **No Impact Factor** **ISSN: 2249-0809**
27	**C.B. Vishwakarma** and R. Prasad, "Linear model order reduction using pole clustering and Genetic Algorithm", International Journal of Applied Mathematics & Engineering Sciences, Vol. 3, No. 2, pp. 75-84, July – December 2009	**No Impact Factor** **ISSN: 0973-5275**

.

National Journals

S.N	Papers Details	Indexing Details
1	**C.B. Vishwakarma** and R. Prasad, "Order reduction using the advantages of differentiation method and factor division", Indian Journal of Engineering & Materials Sciences, Niscair, New Delhi, Vol. 15, No. 6, pp. 447-451, December 2008.	**SCI** **Impact factor:0.881** **ISSN: 09751017**
2	**C.B. Vishwakarma** and R. Prasad, "Clustering method for reducing order of linear system using Pade approximation" IETE Journal of Research, Vol. 54, No. 5, pp. 323-327, September-October 2008.	**SCIE** **Impact Factor:1.125** **ISSN: 03772063**
3	R. Prasad and **C.B. Vishwakarma**, "Linear model order reduction using Mihailov criterion and Cauer second form", Journal of The Institution of Engineers (India), Kolkata, Vol. 90, pp. 18-21, December 2009.	**UGC-Care, SCOPUS** **IF=0** **ISSN: 00203386**
4	**C.B. Vishwakarma** and R. Prasad, "Model order reduction using Polynomial derivatives and Genetic Algorithm", Journal of Computer Science (JCS),Vol. 3, Issue. 3, pp. 1005-1011, March-April 2009.	 **IF=0** **ISSN:** 0976-2926

International Conferences:

- Abha Kumari, **C.B. Vishwakarma**, "A renovated pole clustering for model order reduction", IEEE conference on power electronics, control and automation (CPECA), Jamial Millia Islamia, 16-17 November, 2019.
- Abha Kumari, **C.B. Vishwakarma**, "Order reduction of dynamic systems by using renovated pole clustering techniques", IEEE Conference on Power Energy, Environment and Intelligent Control (PEEIC)", GL Bajaj, Greater Noida, 18-19 October, 2019.
- Namrta Sharma, **C.B. Vishwakarma**, "Dynamic System Simplification using pole clustering and continued fraction expansion method", IEEE Conference on multimedia, signal processing and Communication Technologies (IMPACT), Aligarh Muslim University, 24-27 November, 2017.
- Jay Singh, C.B. Vishwakarma, "SISO Method uisng Modified Pole Clustering and Simulated Aneealing Algorithm", International Conference on Advancement in Energy, Drive and Control (ICAEDC-2017), I.T.S, Greater Noida, 7-8 April 2017.
- Jay Singh, **C.B. Vishwakarma** and Kalyan Chattterjee, "Linear system reduction using pole clustering and improved pade approximations" International Conference, ICECIT-2013, Thapar University Patiala Punjab India, Proceeding, 4-5 Oct.2013, pp. 336-345.
- Jay Singh, KalyanChatterjee, **C.B. Vishwakarma**, "Model order reduction using eigen algorithm", 1st UPCON-ICEEE2015, Department of Electrical & Electronic Engg, Galgotias College of Engg& Technology, Greater Noida, 26-28 March 2015.
- Jay Singh, **Kalyan Chatterjee**, C.B. Vishwakarma, "SISO method using improved modified pole clustering and genetic algorithm", 1st UPCON-ICEEE2015, Department of Electrical & Electronic Engg, Galgotias College of Engg& Technology, Greater Noida, 26-28 March 2015.
- **Chandra Bhan Vishwakarma** and R. Prasad, "Computational Experience using Routh Approximation in time domain", Proc. International Conference on Computer Applications in Electrical Engineering, IIT, Roorkee, India, pp.232-236, Sept. 29- Oct. 1, 2005.
- **Chandra Bhan Vishwakarma** and R. Prasad, "Biased Reduced Models by Modified Differentiation method in frequency domain", Proc. International Conference on Recent Advances and Applications of Computer in Electrical Engineering (RACE- 2007), Engineering College Bikaner, Rajasthan, India, Vol.1, Serial-5, pp.27-29, March 24-25, 2007.
- **C. B. Vishwakarma** and R. Prasad, "System Simplification using pole clustering and factor division algorithm", CD-R Proc.International Conference on Trends and Advances in Computation and Engineering, Barkatullah University Institute of Technology, Bhopal. Feb 11-13, 2010.

- **C.B. Vishwakarma** and R. Prasad, "Order Reduction of the Large-scale interval Systems using Routh approximants", Proc. Joint International Conference & Applied System Research (ASR) and XXXIII National Systems Conference (NSC-2009), Dayalbag Educational Institute, Agra, Nov. 27-29, 2009.
- **C.B. Vishwakarma** and R. Prasad, "Order Reduction of time domain models using Hankel matrix approach", CD-R Proc 4th International Conference on Computer Applications in Electrical engineering –Recent Advances (CERA-2009), Indian Institute of Technology Roorkee, India, Feb 19-21, 2010

National Conferences:

- Jay Singh, **C.B.Vishwakarma**, KalyanChattterjee, "An approach for System Reduction", IEEE Sponsored National Conference on Energy, Power and Intelligent Control Systems, GCET Gr. Noida, 28th-29th March 2014, pp.43-44.
- Jay Singh, KalyanChattterjee, **C.B.Vishwakarma**, "A Mixed Order Reduction Technique", IEEE Sponsored National Conference on Energy, Power and Intelligent Control Systems, GCET Gr. Noida, 28th-29th March 2014, pp.42-43.
- **Chandra Bhan Vishwakarma** and R. Prasad, "Use of Hankel matrix for reduced order modeling", Proc. National Conference on Current Trends, Institute of Technology, Nirma University, Ahemdabad, pp.392-395, Nov. 30- Dec. 2, 2006.
- **C.B. Vishwakarma** and R. Prasad, "Order Reduction using Factor Division Algorithm and Polynomial Derivatives", Proc. National Conference on Control and Instrumentation (NCCI-2007), National Institute of Technology, Kurukshetra, pp. 8-11, December 29-30, 2007.
- **C.B. Vishwakarma** and R. Prasad, "Biased reduced order modeling of large-scale SISO system using differentiation technique", Proc. National conference on Scenario of Electrical Power in India opportunities & Challenges at ShriShankaracharya College of Engg. & Tech, Bhillai. , Nagpur, pp.46-51, October 26-27, 2007.
- **C.B.Vishwakarma** and R. Prasad, "System modelling using improved Pade approximation and differentiation technique", Proc. National Conference on IT Research and Applications, Maharaja Agrasen Institute of Management and Technology, Jagadhary, Haryana , pp.64-67, November 16-18, 2007.
- **C.B. Vishwakarma** & R. Prasad, "Systems Simplification using Pole Grouping Method", Proc. IEEE National Conference on Applications of Intelligent Systems (AIS-2008), Hindu College of Engineering, Haryana, pp.3-6, March 13-15, 2008.
- **C.B. Vishwakarma** and R. Prasad, "Reduced order modelling using pole clustering and Cauer second form", CD-R Proc. National Conference on Recent Advances in Electrical Engineering, RAEE-2008, National Institute of Technology, Hamirpur, December 26-27, 2008.
- **C.B. Vishwakarma** and R. Prasad, "Reduced order modelling using Mihailov criterion and Genetic Algorithm", CD-R, Proc. XXXII National Systems Conference, (NSC-2008), Indian Institute of Technology, Roorkee, India, pp.566-570, December 17-19, 2008.
- **C.B. Vishwakarma** and R. Prasad, "Optimization based reduced order modelling using dominant pole retention", Proc. 4th -National Conference on Machine Intelligence. (NCMI-2008), Haryana College of Engineering, August 22-23, pp. 6-10, 2008.
- **C.B. Vishwakarma** and R. Prasad, "System reduction using modified pole clustering ad Pade approximation", CD-R, Proc. XXXII National Systems Conference ,NSC- 2008, Indian Institute of Technology Roorkee, India, pp.592-596. December 17- 19, 2008.