



**DRONACHARYA**  
Group of Institutions  
Approved by : All India Council for Technical Education  
Affiliated to : Uttar Pradesh Technical University, Lucknow

**3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years.**

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Link
Dr. Shailesh Singh		The Study Of Recoil Reducing Compact Air Pressure Device (C-APD)	IOP CONFERENCE SERIES MATERIALS SCIENCE AND ENGINEERING	International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering [ICOTRIME 2020]	International	2021	Online ISSN: 1757-899X	Dronacharya Group of Institutions, Greater Noida	IOP Publishing	<a href="https://iopscience.iop.org/article/10.1088/1757-899X/1104/1/012037/pdf">https://iopscience.iop.org/article/10.1088/1757-899X/1104/1/012037/pdf</a>
Dr. Chandan Choubey	Book Name:- Collaborative And Humanoid Robots/Chapter Name:- Optimal Trajectory Generation of Parallel Manipulator					2021	ISBN: 9781839687396, 1839687398	Dronacharya Group of Institutions, Greater Noida	Intech Open	<a href="https://www.researchgate.net/publication/351587988_Optimal_Trajectory_Generation_of_Parallel_Manipulator">https://www.researchgate.net/publication/351587988_Optimal_Trajectory_Generation_of_Parallel_Manipulator</a>
Dr. Yamika Patel	Lecture Notes in Mechanical Engineering	Bond Graph Analysis of Dynamic Interaction Between the Concrete Slab and Subgrade for High-Speed Track				2021	Electronic ISSN 2195-4364 Print ISSN 2195-4356		Springer	<a href="https://link.springer.com/chapter/10.1007/978-981-16-2900-6_1">https://link.springer.com/chapter/10.1007/978-981-16-2900-6_1</a>
Dr. Hari Mohan Rai	Lecture Notes in Networks and Systems	Tumor Detection from Brain Magnetic Resonance Images Using MRDWTA-RBFNNC	Proceedings of the Second International Conference on Information Management and Machine Intelligence	Second International Conference on Information Management and Machine Intelligence		2021	Electronic ISSN: 2367-3389; Print ISSN: 2367-3370	Krishna Engineering College	Springer	<a href="https://link.springer.com/chapter/10.1007/978-981-15-9689-6_30">https://link.springer.com/chapter/10.1007/978-981-15-9689-6_30</a>

  
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Dr. Hari Mohan Rai	Myocardial Infarction Detection Using Deep Learning and Ensemble Technique from ECG Signals.	Myocardial Infarction Detection Using Deep Learning and Ensemble Technique from ECG Signals.	Proceedings of Second International Conference on Computing, Communications, and Cyber-Security, Part of "Lecture Notes in Networks and Systems"	Second International Conference on Computing, Communications, and Cyber-Security		2021	Electronic ISSN: 2367-3389; Print ISSN: 2367-3370	Krishna Engineering College	Springer	<a href="https://link.springer.com/chapter/10.1007/978-981-16-0733-2_51">https://link.springer.com/chapter/10.1007/978-981-16-0733-2_51</a>
Pranay Bhaduria	Algorithms for Intelligent Systems Book Series	Model order reduction using Grey wolf optimization and Pade Approximation	Proceedings of International Conference on Scientific and Natural Computing	2nd International Conference on Scientific and Natural Computing		2021	Electronic ISSN: 2367-3389; Print ISSN: 2367-3370	Dronacharya Group of Institutions, Greater Noida	Springer	<a href="https://link.springer.com/chapter/10.1007/978-981-16-1528-3_5?noAccess=true">https://link.springer.com/chapter/10.1007/978-981-16-1528-3_5?noAccess=true</a>
Nidhi Singh	Algorithms for Intelligent Systems Book Series	Model order reduction using Grey wolf optimization and Pade Approximation	Proceedings of International Conference on Scientific and Natural Computing	2nd International Conference on Scientific and Natural Computing		2021	Electronic ISSN: 2367-3389; Print ISSN: 2367-3370	Dronacharya Group of Institutions, Greater Noida	Springer	<a href="https://link.springer.com/chapter/10.1007/978-981-16-1528-3_5?noAccess=true">https://link.springer.com/chapter/10.1007/978-981-16-1528-3_5?noAccess=true</a>
Ms. Shayamalima Kashyap	Women And Development	Misuse of Power. A shift in Gender Dynamics in Michael Crichton's Disclosure				2020	ISBN: 9789382059875	Dronacharya Group of Institutions, Greater Noida	Synergy Books India	<a href="https://www.exoticindiaart.com/book/details/women-and-development-uac834/">https://www.exoticindiaart.com/book/details/women-and-development-uac834/</a>

  
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Dr.Hari Mohan Rai		A Novel Deep CNN Model for Classification of Brain Tumor from MR Images	2020 IEEE International Conference for Convergence in Engineering Proceedings	2020 IEEE 1st International Conference for Convergence in Engineering (ICCE)		2020	ISBN: 978-1-7281-7340-5	Krishna Engineering College	IEEE	<a href="https://ieeexplore.ieee.org/document/9290740">https://ieeexplore.ieee.org/document/9290740</a>
Dr.Hari Mohan Rai		Hybrid CNN-LSTM model for automatic prediction of cardiac arrhythmias from ECG big data	IEEE UPCON Series; DOI: 10.1109/UPCON50219.2020.9376450	2020 IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)		2020	ISSN 2473-2001 (Online)	ISM, Dhambad	IEEE	<a href="https://ieeexplore.ieee.org/document/9376450">https://ieeexplore.ieee.org/document/9376450</a>
Dr. Pawan Kumar Sharma	Artificial Intelligence and Natural Algorithms					2020		Dronacharya Group of Institutions, Greater Noida	Bentham Science	<a href="https://www.researchgate.net/publication/343859745_Artificial_Intelligence_and_Natural_Algorithms">https://www.researchgate.net/publication/343859745_Artificial_Intelligence_and_Natural_Algorithms</a>
Dr. Vikram Kumar		Comparative Analysis of various imaging techniques for cancer detection		URSI-Regional Conference on Radio Science 2020 (URSI-RCRS-2020)		2020	URSI1919	IIT BHU	URSI	<a href="https://www.researchgate.net/publication/353443530_Comparative_Analysis_of_various_imaging_techniques_for_cancer_detection">https://www.researchgate.net/publication/353443530_Comparative_Analysis_of_various_imaging_techniques_for_cancer_detection</a>

  
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Dr. Vikram Kumar		Design analysis of a Tunable Tapered Metallic Baffle TM 01 to TE 11 HPM Mode Converter	2020 IEEE 21st International Conference on Vacuum Electronics	IEEE 21st International Conference on Vacuum Electronics (IVEC)		Oct, 2020	ISBN: 978-978-80-7043-987-6. ISSN: 1803-7232	Dronacharya Group of Institutions, Greater Noida	IEEE	<a href="https://ieeexplore.ieee.org/document/9520457">https://ieeexplore.ieee.org/document/9520457</a>
Bipin Pandey	Fundamentals Of Cloud Computing					2020	ISBN: 978-93-90178-22-3	Dronacharya Group of Institutions, Greater Noida	Nitya Publication	<a href="https://nitvapublications.com/product/fundamentals-of-cloud-computing/">https://nitvapublications.com/product/fundamentals-of-cloud-computing/</a>
Dr. Vikram Kumar		Notice of Removal: Design of Coaxial Waveguide TEM to Circular Waveguide TM On Mode Transducer	2019 International Vacuum Electronics Conference (IVEC) Proceedings	International Vacuum Electronics Conference (IVEC)		2019	ISBN: 978-978-80-7043-987-6. ISSN: 1803-7232	IIT BHU	IEEE	<a href="https://ieeexplore.ieee.org/document/8744867">https://ieeexplore.ieee.org/document/8744867</a>
Mr. Manish Kumar Mishra	Book: Communication and Computing System/Chapter: Analytical And Experimental Characterization Of Friction Force In Belt Motion				International	2019	Print ISSN: 1757-8981	Dronacharya Group of Institutions, Greater Noida	TAYLOR & FRANCIS GROUP, LONDON	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-98/analytical-experimental-characterization-friction-force-belt-motion-saurabh-yadav-manish-kumar-mishra-vineet-mishra">https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-98/analytical-experimental-characterization-friction-force-belt-motion-saurabh-yadav-manish-kumar-mishra-vineet-mishra</a>
Dr. Shailesh Singh	Optimization Methods In Engineering	EFFECT OF TEMPERATURE ON THE WEAR BEHAVIOUR OF CRN COATING DEPOSITED BY PHYSICAL VAPOUR DEPOSITION				2019			Springer	<a href="https://www.springerprofessional.de/en/effect-of-temperature-on-the-wear-behaviour-of-crn-coating-depos/18055906">https://www.springerprofessional.de/en/effect-of-temperature-on-the-wear-behaviour-of-crn-coating-depos/18055906</a>
Dr. Azad Singh	Communication And Computing Systems	ROLE OF SOCIAL NETWORKING WEBSITE (SNS) IN RECRUITMENT : A REVIEW ANALYSIS				Oct-19			CRC Press, Taylor & Francis	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-53/role-social-networking-websites-sns-recruitment-review-analysis-tanya-yadav-mahima-narula-azad-singh">https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-53/role-social-networking-websites-sns-recruitment-review-analysis-tanya-yadav-mahima-narula-azad-singh</a>

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Shuchi Mathur	Communication And Computing Systems	24/7 WORK CULTURE : COMPETITIVE ADVANTAGES AND CHALLENGES				Oct-19	ISBN: 978-3-030-02487-1		CRC Press, Taylor & Francis	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-38/24-7-work-culture-competitive-advantages-challenges-md-faiz-ranjiet-singh-siddharth-shuchi-mathur">https://www.taylorfrancis.com/chapters/edit/10.1201/9780429444272-38/24-7-work-culture-competitive-advantages-challenges-md-faiz-ranjiet-singh-siddharth-shuchi-mathur</a>
Dr. Shailesh Singh	Materials Today: Proceedings	Processing and Characterization of Fly-ash Compacts				2018	ISSN 1369-7021	KEC	Elsevier Science Direct	<a href="https://www.sciencedirect.com/science/article/pii/S2214785317328572#">https://www.sciencedirect.com/science/article/pii/S2214785317328572#</a>
Dr. Neetu Singh	Queueing Modelling For Machine Repair Problem					2018	ISBN-13: 978-613-9-88889-4; ISBN-10: 6139888891	World College	Lambert Academic Publishing; 2018	<a href="https://www.morebooks.de/store/gb/book/queueing-modelling-for-machine-repair-problems/isbn/978-613-9-88889-4">https://www.morebooks.de/store/gb/book/queueing-modelling-for-machine-repair-problems/isbn/978-613-9-88889-4</a>
Dr. Mukesh Singh Tomar	The Business Research Methodology					2018	VSRDAPBM-147/P-ISBN : 978-93-87610-30-9, VSRD Academic Publishing December 2018	IIMT	VSRDAPBM-147 / P-ISBN : 978-93-87610-30-9, VSRD Academic Publishing December 2018	<a href="http://www.vsrdpublishing.com/bk.php?p_isbn=978-93-87610-30-9">http://www.vsrdpublishing.com/bk.php?p_isbn=978-93-87610-30-9</a>

  
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Dr. Manoj Tolani		Energy-efficient Aggregation-aware IEEE 802.15.4 MAC Protocol for Railway, Telemedicine & Industrial Applications	5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON) proceedings	5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)		2018	ISBN: 978-80-7043-987-43-987-6. ISSN: 1803-7232	IEEE		<a href="https://ieeexplore.ieee.org/document/8397103">https://ieeexplore.ieee.org/document/8397103</a>
Dr. Chandan Choubey		Parallel Manipulator Control Using Different LQG Tuning Methods	2018 5th IEEE UTTAR PRADESH SECTION INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS AND COMPUTER ENGINEERING (UPCON)	INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS AND COMPUTER ENGINEERING (UPCON)	International	2018	ISSN: 2325-9418, P ISSN: 2325-940X	Dronacharya Group of Institutions, Greater Noida		<a href="https://ieeexplore.ieee.org/document/8397141">https://ieeexplore.ieee.org/document/8397141</a>
Dr. Abhishek Swami	Environmental Ethics A Review/Chapter- E-WASTE AND ENVIRONMENTAL ISSUES					Jan-17	ISSN: 978-93-5056-886-6			<a href="https://books.google.co.in/books/about/E_WASTE_AND_ENVIRONMENTAL_ISSUES.html?id=icozEACAAJ&amp;redir_esc=y">https://books.google.co.in/books/about/E_WASTE_AND_ENVIRONMENTAL_ISSUES.html?id=icozEACAAJ&amp;redir_esc=y</a>
Dr. Ajay Singh Verma	Book:- Corrosion Inhibitors Principle and Mechanisms and Applications /Chapter- Corrosion Mechanism and Inhibitors for Al based Particulate Metal Matrix Composite (APM/MCs)					year 2017	ISBN: 978-1-63485-804-5 (E Book)		Nova Science Publishers, Inc. New York	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=th&amp;user=VrUwKsAAA&amp;citati_on_for=view=VrUwKsAAA&amp;2osOgNO5qMEC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=th&amp;user=VrUwKsAAA&amp;citati_on_for=view=VrUwKsAAA&amp;2osOgNO5qMEC</a>
Rahul Yadav		Optimum and Nonoptimum 16-pulse Scott connected AC-DC Converters	2nd International Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH) proceedings	2016 Second International Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH)		Nov, 2016	ISBN: 978-1-4673-9080-4	IEEE		<a href="https://ieeexplore.ieee.org/abstract/document/7918741">https://ieeexplore.ieee.org/abstract/document/7918741</a>



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**Conference Name:** International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering [ICOTRIME 2020]

**Title of The Paper:** The Study Of Recoil Reducing Compact Air Pressure Device (CAPD)

**Name of the Author:** Dr. Shailesh Singh

ICOTRIME 2020

IOP Publishing

IOP Conf. Series: Materials Science and Engineering

1104 (2021) 012037

doi:10.1088/1757-899X/1104/1/012037

## The study of Recoil Reducing Compact Air Pressure Device (CAPD)

Abhimanyu Saxena, M Dixit, M Rashid, S C Nigam, S K Singh  
Dronacharya Group of Institutions, B-27, Knowledge Park - III, Greater Noida, U.P  
India.

Corresponding Author: [abhimanyu.sxn18@gmail.com](mailto:abhimanyu.sxn18@gmail.com), [shaileshsonu10@gmail.com](mailto:shaileshsonu10@gmail.com)

**Abstract:** Defense organization is one of the most reputed organization where best of the officers and soldiers serve for the safety of one's country, without complaining about anything and giving their all in to protect us from various threats that could lead to disintegration of the country.

Thus, the main motive to develop this device is to help our defense services to get the best, while they are giving their best for the country. The idea is to develop a device that would counter the recoil of the gun used by the officers and soldiers, to make them more efficient. Keeping in mind that the renewable resources of energy are depleting at a fast pace and pollution is increasing day by day leading to global warming, we have taken air as our resource to produce the desired effect. The device would be developed using aluminium, compact single cylinder air compressor and arduino programming to measure the pressure required for each shot fired from the gun. The principles of Law of conservation of momentum are applied to reduce the recoil of the gun to 80 %, thus helping in better aiming and precision. By installing this device, the demerits that makes AK47 a primitive gun would be subdued and without buying the expensive advanced guns, the arsenal would be upgraded at minimal cost possible.

**Keywords:** Conservation of momentum, Single stage reciprocating air compressor, Recoil of gun, Recoil reducing device, Recoil reducing compact air device, Indian Defense Services, AK47.

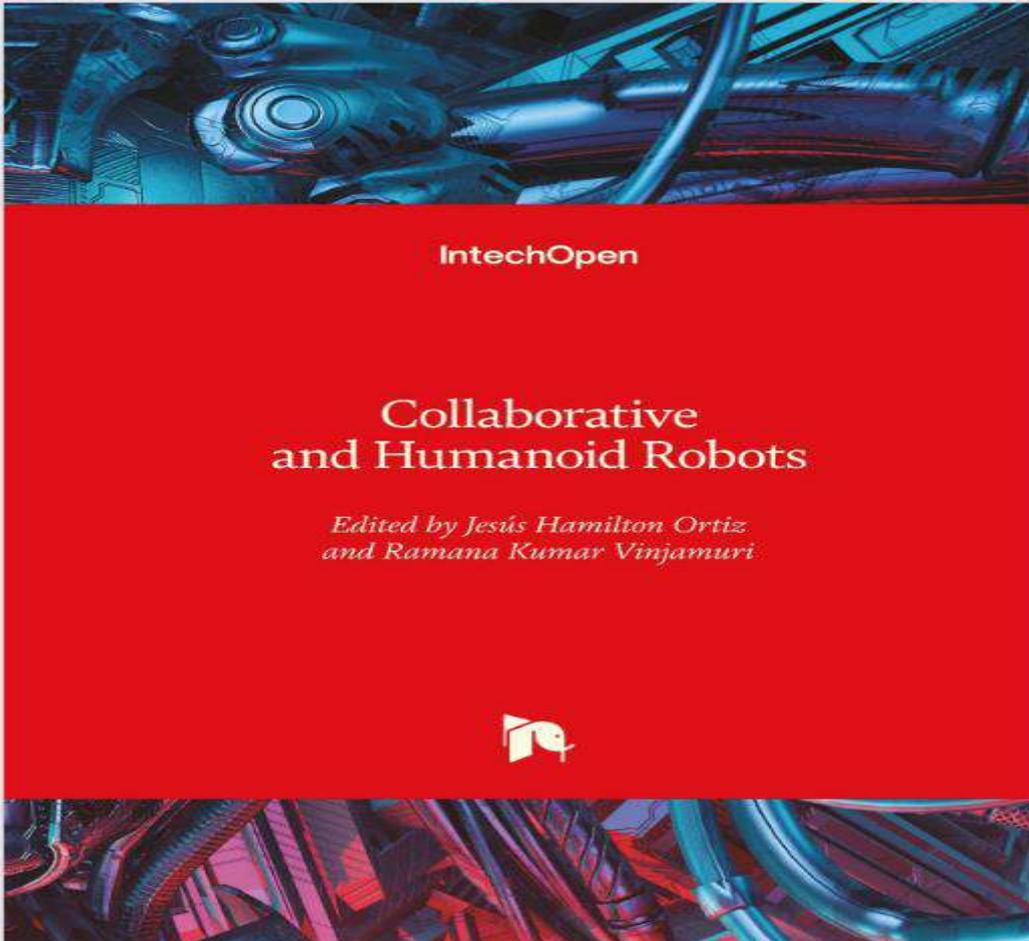
### 1.0 INTRODUCTION

The idea was developed to overcome the problem of budget of Defense Services (only 2.1% of GDP), which unable them to upgrade the arsenal time to time and hence they have to adjust with the weapons of primitive technology. Where as other countries enhance the technology timely thus making their defence sector stronger, which will give them an upper hand during a war as well as to combat the

**Conference Name:** International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering [ICOTRIME 2020]

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**Name of the Author:** Dr. Shailesh Singh



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Chapter

# Optimal Trajectory Generation of Parallel Manipulator

*Chandan Choubey and Jyoti Ohri*

**Abstract**

In this paper we have designed an optimal trajectory generation (OTG) method to generate easy and errorless continuous path motion with quick converging by using Gray Wolf Optimization (GWO) method. This OTG method finds the trajectory path with minimum tracking-error, combined speed, joint increasing speed wrinkle as well as joint lurching move to follow a smooth along with error-free continuous path.

**Keywords:** Gray Wolf Optimization, Trajectory Generation algorithm, Parallel Manipulators, Error-Free Path Motion

**Book Name:** Collaborative and Humanoid Robot

**Chapter Name:** Optimal Trajectory Generation of Parallel Manipulator

**Name of the Author:** Dr. Chandan Choubey



**Recent Trends in Engineering Design** pp 1–12 | [Cite as](#)

## Bond Graph Analysis of Dynamic Interaction Between the Concrete Slab and Subgrade for High-Speed Track

Saurabh Bhardwa, Yamika Patel & Vikas Rastogi

Conference paper | [First Online: 16 July 2021](#)

154 Accesses

Part of the [Lecture Notes in Mechanical Engineering](#) book series (LNME)

### Abstract

It has been observed in the past few years that there has been a shift in the consumption pattern of resources across industries, like from diesel and diesel vehicles to electric or other alternative fuel vehicles, due to the finiteness in the availability of fossil fuels. In the present times, high-speed train is one of the examples of such electric-driven vehicles that has gained popularity among the masses, especially in the urban areas, which is mainly due to the

**Book Name:** Lecture Notes in Mechanical Engineering

**Title of the Paper:** Bond Graph Analysis of Dynamic Interaction Between the Concrete Slab and Subgrade for High-Speed Track

**Name of the Author:** Dr. Yamika Patel



**Proceedings of the Second International Conference on Information Management and Machi**

## Tumor Detection from Brain Magnetic Resonance Images Using MRDWTA-RBFNNC

[Hari Mohan Rai](#) [Kalyan Chatterjee](#), [Deepak Gupta](#) & [Praween Srivastava](#)

Conference paper | [First Online: 23 January 2021](#)

471 Accesses

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 166)

### Abstract

The automatic classification and detection of MR images (brain) for abnormality play very important role in the analysis and diagnosis of brain disorders. This manuscript proposed an abnormality detection method from brain MR images using the RBFNNC. MRDWT is utilized for the brain image preprocessing and also for feature extraction where preprocessing step comprises of grayscale MR image conversion and removal of noise from MR images. The

**Book Name:** Lecture Notes in Networks and Systems

**Conference Name:** Second International Conference on Information Management and Machine Intelligence

**Title of the Paper:** Tumor Detection from Brain Magnetic Resonance Images Using MRDWTA-RBFNNC

**Name of the Author:** Dr.Hari Mohan Rai



Proceedings of Second International Conference on Computing, Communications, and Cyber-Se

## Myocardial Infarction Detection Using Deep Learning and Ensemble Technique from ECG Signals

[Hari Mohan Rai](#), [Kalyan Chatterjee](#), [Alok Dubey](#) & [Praween Srivastava](#)

Conference paper | [First Online: 25 May 2021](#)

**883** Accesses | **2** Citations

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 203)

### Abstract

Automatic and accurate prognosis of myocardial infarction (MI) from electrocardiogram (ECG) signals is a very challenging task for the diagnosis and treatment of heart diseases. Hence, we have proposed a hybrid convolutional neural network—long short-term memory network (CNN-LSTM) deep learning model for accurate and automatic prediction of myocardial

**Book Name:** Lecture Notes in Networks and Systems

**Conference Name:** Second International Conference on Computing, Communications, and Cyber-Security

**Title of the Paper:** Myocardial Infarction Detection Using Deep Learning and Ensemble Technique from ECG Signals.

**Name of the Author:** Dr.Hari Mohan Rai



Proceedings of International Conference on Scientific and Natural Computing pp 49–56 | Cite as

## Model Order Reduction Using Grey Wolf Optimization and Pade Approximation

[Pranay Bhadauria](#) & [Nidhi Singh](#)

Conference paper | [First Online: 01 June 2021](#)

148 Accesses

Part of the [Algorithms for Intelligent Systems](#) book series (AIS)

### Abstract

A combination of two methods is recommended for determining the steady reduced-order model of SISO large-scale system using Pade approximation and Grey wolf optimization technique. The Grey wolf optimization technique is used for finding the coefficients of denominator polynomial and the coefficients of numerator polynomial are determined by Pade approximation technique. This hybrid method assures the stability of ROM when the stable higher-order system is considered. The procedure of the recommended method is

**Book Name:** Algorithms for Intelligent Systems Book Series

**Conference Name:** 2nd International Conference on Scientific and Natural Computing

**Title of the Paper:** Model order reduction using Grey wolf optimization and Pade Approximation

**Name of the Author:** Mr. Pranay Bhadauria



Proceedings of International Conference on Scientific and Natural Computing pp 49–56 | Cite as

## Model Order Reduction Using Grey Wolf Optimization and Pade Approximation

[Pranay Bhadauria](#) & [Nidhi Singh](#)

Conference paper | [First Online: 01 June 2021](#)

148 Accesses

Part of the [Algorithms for Intelligent Systems](#) book series (AIS)

### Abstract

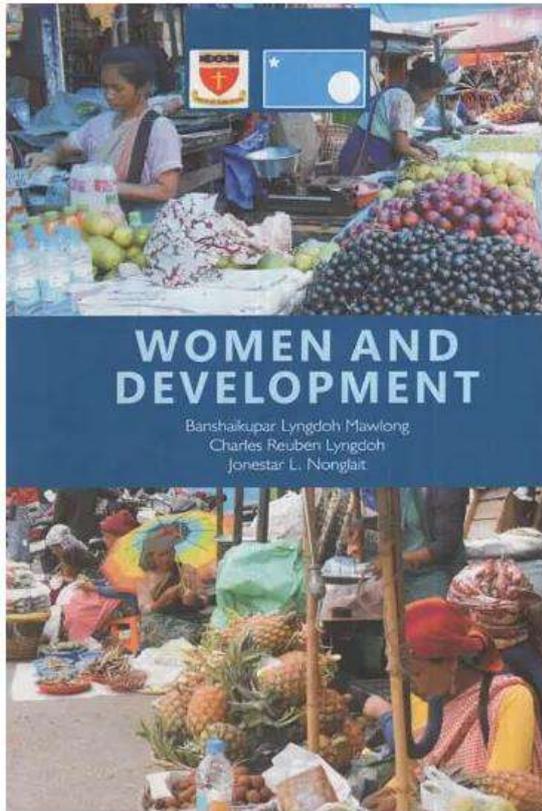
A combination of two methods is recommended for determining the steady reduced-order model of SISO large-scale system using Pade approximation and Grey wolf optimization technique. The Grey wolf optimization technique is used for finding the coefficients of denominator polynomial and the coefficients of numerator polynomial are determined by Pade approximation technique. This hybrid method assures the stability of ROM when the stable higher-order system is considered. The procedure of the recommended method is

**Book Name:** Algorithms for Intelligent Systems Book Series

**Conference Name:** 2nd International Conference on Scientific and Natural Computing

**Title of the Paper:** Model order reduction using Grey wolf optimization and Pade Approximation

**Name of the Author:** Ms. Nidhi Singh



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**Book Name:** Women And Development

**Title of the Chapter:** Misuse of Power: A shift in Gender Dynamics in Michael Crichton's Disclosure

**Name of the Author:** Ms. Shyamalima Kashyap



Conferences > 2020 IEEE 1st International C...

## A Novel Deep CNN Model for Classification of Brain Tumor from MR Images

Publisher: IEEE

Cite This

PDF

Hari Mohan Rai; Kalyan Chatterjee; Apita Gupta; Alok Dubey All Authors

3	97
Paper	Full
Citations	Text Views



### Abstract

#### Document Sections

- I. Introduction
- II. Materials and Methods
- III. CNN Model Architecture
- IV. Result and Discussion

### Abstract:

the segmentation of brain tumor and its classification in the early stage is very important for the purpose of diagn treatment. This work introduces a new deep neural network model Lu-Net with less layers, less complexity and v identifying tumors. The work involves classifying brain magnetic resonance (MR) images from a dataset of 253 lr pixels into two categories of tumors and non-tumors. MR images are initially resized, cropped, preprocessed, and for accurate and rapid training of deep convolutional neural network (CNN) models. The performance of the Lu-N been evaluated using five types of statistical evaluation matrix accuracy, recall, specificity, F-score and accuracy, performance also compared with other two types of model Le-Net and VGG-16. CNN models were trained and e augmented dataset and tested on untrained datasets. The overall accuracy of Le-Net, VGG-16 and the propose

**Conference Name:** 2020 IEEE 1st International Conference for Convergence in Engineering (ICCE)

**Title of the Paper:** A Novel Deep CNN Model for Classification of Brain Tumor from MR Images

**Name of the Author:** Dr. Hari Mohan Rai

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## Hybrid CNN-LSTM model for automatic prediction of cardiac arrhythmias from ECG big data

Publisher: IEEE

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Hari Mohan Rai; Kalyan Chatterjee; Chandra Mukherjee All Authors

5	180
Paper	Full
Citations	Text Views



### Abstract

#### Document Sections

- I. Introduction
- II. Materials & Methods

### Abstract:

Automatic and accurate prognosis of cardiac arrhythmias from ECG big data is a very challenging task for the diagnosis and treatment of heart diseases. Hence, we have proposed a hybrid CNN-LSTM deep learning model for accurate and automatic prediction of cardiac arrhythmias using the ECG big dataset. The total 123,998 ECG beats from combined benchmark datasets "MIT-BIH arrhythmias database" and "PTB diagnostic database" are employed for validation of the model performance. The ECG beat time interval and its gradient value is directly considered as the feature and given as the input to the proposed

**Conference Name:** 2020 IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)

**Title of the Paper:** Hybrid CNN-LSTM model for automatic prediction of cardiac arrhythmias from ECG big data

**Name of the Author:** Dr. Hari Mohan Rai



Book

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## Artificial Intelligence and Natural Algorithms

August 2020

Project: [Machine Learning](#)

### Authors:



**Rizwan Khan**

ABES Institute of Technology



**Pawan Kumar Sharma**

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### Abstract

About the Book This book compiles and comprises the emerging research and more importantly the applications of Artificial Intelligence (AI) and Nature-inspired Algorithms (NiAs) in basic as well applied areas of Computer Science (CS). In broader scope, AI encompasses the various means of the computers to assist the tasks, which customarily require the greater human intelligence. The scope also includes the multifarious operations on data, the learning from the new or legacy data, and knowledge discovery and improvement. On the other hand, the NiAs are a set of the original problem-solving practices and the approaches, which require significant considerations to act and operate effectively and efficiently. The typical examples of the NAs consist of the Evolutionary Computing (EC), Artificial Neural Networks (ANN), Swarm Intelligence (SI), and Fuzzy Systems (FS), which are being exploited to unravel the intricacies of the enormous real complex problems. Despite the growing maturity and wide spread

**Book Name:** Artificial Intelligence and Natural Algorithms

**Name of the Author:** Dr. Pawan Kumar Sharma

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## Design analysis of a Tunable Tapered Metallic Baffle TM01 to TE11 HPM Mode Converter

Publisher: IEEE

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Vikram Kumar Pradip K. Jain All Authors

39

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Text Views



Abstract

Abstract:

Tapered metallic baffle mode converter for TM 01 to TE 11 mode has been presented. Using a triangular axially movable baffle,

**Conference Name:** IEEE 21st International Conference on Vacuum Electronics (IVEC)

**Title of the Paper:** Design analysis of a Tunable Tapered Metallic Baffle TM 01 to TE 11 HPM Mode Converter

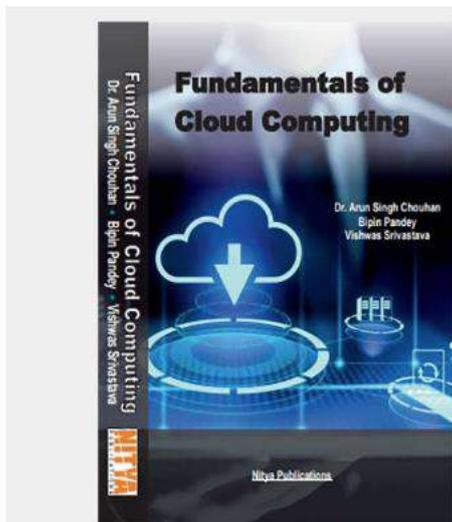
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### Fundamentals Of Cloud Computing



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Edition : 1

Pages : 250

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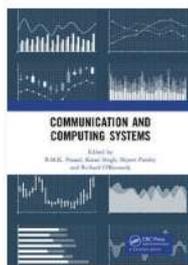
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Chapter

## Analytical and experimental characterization of friction force in belt motion

By Saurabh Yadav, **Manish Kumar Mishra**, Vineet Mishra

Book [Communication and Computing Systems](#)

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272



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### ABSTRACT

Dynamic friction force is the amount of force necessary to keep the two objects moving relative to each other. This dynamic friction force depends on several parameters, such as relative velocity, contact surface, normal load etc. the main aim of this project work is to analyze the effect of relative velocity on the dynamic

**Book Name:** Communication and Computing Systems

**Chapter Name:** Analytical and Experimental Characterization Of Friction Force In Belt Motion

**Name of the Author:** Mr. Manish Kumar Mishra



2021 | Original Paper | Chapter

## 32. Effect of Temperature on the Wear Behaviour of CrN Coating Deposited by Physical Vapour Deposition

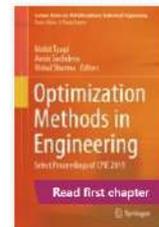
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Published in: Optimization Methods in Engineering

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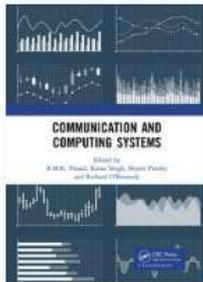
### Abstract

The current study reveals the effect of temperature (up to 100 °C) on the wear behaviour of CrN coating on the piston ring substrate material. Wear test has been carried out on the four levels of 28, 50, 75 and 100 °C corresponding load of 5 N, 10 N, 15 N and 20 N at constant sliding speed. Specific wear rate of the coating ranges from  $8.12 \times 10^{-8}$  to  $1.65 \times 10^{-8}$  mm<sup>3</sup>/Nm at four levels. Friction results have shown a decreasing trend of 0.75–0.43 for chromium nitride coating against cylinder liner material. The wear mechanism of CrN is elastic and plastic contact with

**Book Name:** Optimization Methods In Engineering

**Chapter Name:** EFFECT OF TEMPERATURE ON THE WEAR BEHAVIOUR OF CRN COATING DEPOSITED BY PHYSICAL VAPOUR DEPOSITION

**Name of the Author:** Dr. Shailesh Singh



Chapter

## Role of Social Networking Websites (SNS) in recruitment: A review analysis

By Tanya Yadav, Mahima Narula, Azad Singh

Book [Communication and Computing Systems](#)

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	6
eBook ISBN	9780429444272



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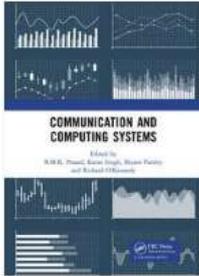
### ABSTRACT

Recruitment is trepidation with feat out, magnetizing, and guarantying a supply of competent personnel and selecting of mandatory manpower mutually in their quantitative and qualitative aspect. Mainly it is the maintenance and development of sufficient man-power resources. According to KPMG, overall attrition rate in India is 13.5%. The highest attrition was reported by Retail sector with ecommerce being on the higher side with an average voluntary annual attrition of 18.5 percent which shows that attrition is one of the most

**Book Name:** Communication and Computing Systems

**Chapter Name:** ROLE OF SOCIAL NETWORKING WEBSITE (SNS) IN RECRUITMENT: A REVIEW ANALYSIS

**Name of the Author:** Dr. Azad Singh



Chapter

## 24/7 work culture: Competitive advantages and challenges

By Md. Faiz, Ranjeet Singh, Siddharth Shuchi Mathur

Book [Communication and Computing Systems](#)

Edition	1st Edition
First Published	2019
Imprint	CRC Press
Pages	4
eBook ISBN	9780429444272



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### ABSTRACT

We are in fact living in a worldwide economy, with new innovation keeping us united to work all day, every day. In this new world the work life balance is winding up progressively troublesome. Not very far in the past when once we walked out the workplace door our work day finished, we completed our work and returned home. Presently, with the development of iPhone, android and other innovation we can browse our email at our kid's hockey practice and get our voice messages while holding up at the dental practitioner, prompting

**Book Name:** Communication and Computing Systems

**Chapter Name:** 24/7 WORK CULTURE: COMPETITIVE ADVANTAGES AND CHALLENGES

**Name of the Author:** Ms. Shuchi Mathur



## Processing and Characterization of Fly-ash Compacts

Satyajeet Kumar <sup>a</sup> **Shailesh Kumar Singh** <sup>a</sup>  , S.C. Mishra <sup>b</sup>

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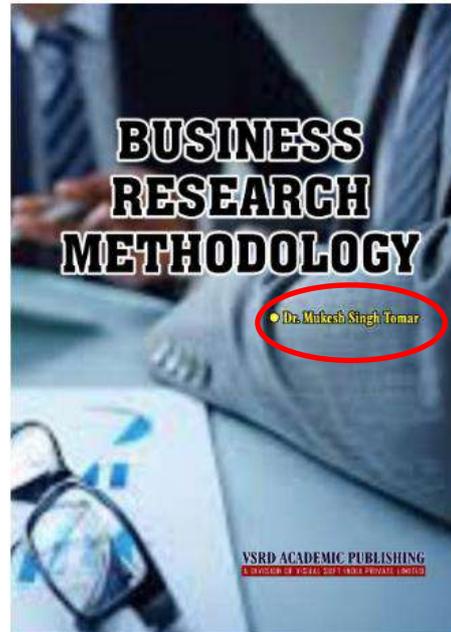
### Abstract

Industrial waste like fly-ash which is producing environmental problems, is mainly used as a construction material due to its low cost and easy availability. Disposal of such wastes is the major issue faced by the thermal power plant these days. But the main disadvantage of these bricks is its low strength. So, a lot of research is going on to increase the strength of these bricks. The present research work is carried out to develop a new systematic procedure to produce fly ash composite bricks through powder metallurgy route which will have higher compressive strength. Here the fly-ash is mixed with Cold setting resin at different proportions to find out a solution

**Book Name:** Materials Today: Proceedings

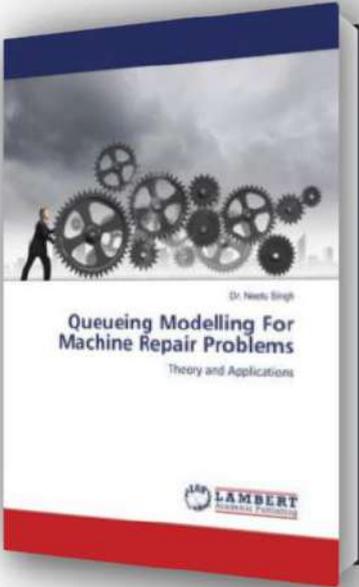
**Chapter Name:** Processing and Characterization of Fly-ash Compacts

**Name of the Author:** Dr. Shailesh Singh



**Book Name:** The Business Research Methodology

**Name of the Author:** Dr. Mukesh Singh Tomar



### Queueing Modelling For Machine Repair Problems

Theory and Applications

978-613-9-88889-4

With the rapid advancement in science and technology, machining systems come to our day-to-day and industrial activities. The computer systems, production systems, communication systems, etc., are some of the examples that can be cited for industrial real time systems. The performance of these systems is affected by processing times, occurrence of random failures, randomness of repair times, etc.. The book uses queueing theory. Various techniques of queueing theory to tackle modelling aspects and characteristics for industrial systems working in machining environment. The book adds researchers and practitioners to pursue further research in this direction.

<b>Authors</b>	Dr. Neetu Singh
<b>Book language</b>	English
<b>Published on</b>	2018-07-30
<b>Publishing house</b>	<a href="#">LAP LAMBERT Academic Publishing</a>
<b>Number of pages</b>	116
<b>Price (EUR)</b>	€54.90

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Dr. Ajay Singh Verma

ผู้เขียน: **Ajay Singh verma**

วันที่เผยแพร่: 2017

หนังสือ: Corrosion Inhibitors Principle and Mechanisms and Applications

หน้า: 105-116

ผู้เผยแพร่: Nova Science Publishers, Inc. New York

**Book Name:** Corrosion Inhibitors Principle and Mechanisms and Applications

**Chapter Name:** Corrosion Mechanism and Inhibitors for AI based Particulate Metal Matrix Composite (APMMCs)

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**Optimum and non-optimum 16-pulse Scott connection based AC-DC converters**

Publisher: IEEE Cite This PDF

Rahul Yadav ; Sanjay Gairola All Authors

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**Abstract**

**Abstract:**

This paper deals with a multi-pulse AC-DC converter that generate DC output voltage having 16 pulsations, fed from orthogonally connected transformers. The orthogonal supply voltages are obtained from the special transformer connection called Scott connection. In this paper the two configurations, canonical and non-canonical arrangements, which are suitable for 16-pulse generation are modelled and analysed. The output voltage ripples are small and the total harmonic distortion in Input current (THDI) is also improved compared to the conventional 6-pulse and 12-pulse AC-DC converters.

**Document Sections**

- Introduction
- Transformer Arrangement Based on Scott Connection

**Conference Name:** 2016 Second International Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity (CIPECH)

**Title of the Paper:** Optimum and Non-optimum 16-pulse Scott connected AC-DC Converters

**Name of the Author:** Mr. Rahul Yadav