

BIO-DATA

MUNNA KHAN

Nationality: **Indian**

Father: Late Nawab Khan, Mother: Late Khatoon Begum, Birth: Khurrampur, Aligarh, UP, India
Residence: 92 T Sector 8, Jasola Vihar, New Delhi-110025, India; E-mails:mkhan4@jmi.ac.in,
Mob: 9999806500, 9312242152; Passport: C 4078813 (Valid: 29 Oct 2034), DOB: 10 Aug 1968.

PROFESSIONAL EDUCATIONS

Ph.D.	Biomedical Engineering	IIT, Delhi	Awarded & received Gold Medal	2002
M.Tech.	Electronics Engineering	AMU, Aligarh	66.4 %	First Division 1993
B.Tech.	AMU, Aligarh	Electrical Engineering	71.5 %	First Division 1989
12th Class	AMU, Aligarh	Senior Secondary School	60.0 %	First Division 1985
10th Class	UP Board	High School	72.2 %	First Division 1983

PROFESSIONAL EXPERIENCES

Employer	Position	Period	
Jamia Millia Islamia (JMI), New Delhi.	Professor and Head	2020	Present
Jamia Millia Islamia (JMI), New Delhi.	Professor	2011	2020
Mewat Engineering College, Haryana.	Professor and Director	2009	2011
Jamia Millia Islamia, New Delhi.	Associate Professor	2005	2009
Indian Institute of Technology, Guwahati.	Assistant Professor	2004	2005
Jamia Millia Islamia, New Delhi.	Lecturer/ Sr. Lecturer	1992	2004
Wright State University, Dayton, OH, USA	Visiting Professor	May-June 2011,2012	
Wright State University, Dayton, OH, USA	Visiting Professor	May-July 2007, 2009	
Wright State University, Dayton, OH, USA	Visiting Assistant Professor	May-July 2004, 2005	

R & D GRANTS: 10 Million Rupees (Approx) PATENTS: 8 [6 GRANTED and 2 PUBLISHED]

KUDOS: Fellow AsMA, Senior Member IEEE USA; Fellows ISAM, IETE, IE INDIA; Ph.D.Guided:17

SUMMARY OF AWARDS

INTERNATIONAL = 3	NATIONAL = 5	OTHERS = 2
-------------------	--------------	------------

SUMMARY OF INVITED LECTURES/ TALKS

INTERNATIONAL = 7	NATIONAL = 15
-------------------	---------------

Specializations: 1. Embedded Systems 2. Digital Health Care 3. Aerospace Medical Instrumentation

Orchid iD: 0000-0003-4226-1260, https://orcid.org/0000-0003-4226-1260		
SUMMARY OF PUBLICATIONS		REMARKS
INTERNATIONAL/ NATIONAL JOURNALS: SCI/SCOPUS/ OTHERS	103	79 FULL PAPERS (Web of Sciences and Scopus-39, Referred-40) + 24 ARCHIVAL ABSTRACTS
FULL PAPERS IN THE PROCEEDINGS INTERNATIONAL / NATIONAL CONFERENCE	63	Web of Sciences and Scopus indexed-38, Referred-25. Received 10 BEST PAPER AWARDS during AIME-06, ETEEE-15, IEEE INDICON-15, JTACON-20
BOOKS AND BOOK CHAPTERS	08	2 Books and 6- SCOPUS Book Chapters
SHORT PAPERS AND ABSTRACTS IN THE INTERNATIONAL / NATIONAL CONFERENCES	64	7-USA, 1-BRAZIL, 1-Malaysia, 1-Australia, 1-Spain, 1-UK, 1-Thailand ➤ Received “AWARD OF HONOUR” by ISAM, Indian Air Force, Bangalore, India
Total Publications	238	

INTERNATIONAL AWARDS / HONORS / RECOGNITION RECEIVED

Name of Awards	Awarded by	Awarded for	Date
Fellow	Aerospace Medical Association, USA	Recognition of knowledge & outstanding contribution in Aerospace Medicine	May 09, 2019
IEEE Senior Member	IEEE Admission and Advancement Committee, USA	Recognition of knowledge & outstanding contribution in the Engineering in Medicine and Biology Society	October 19, 2019
Young Investigator Award, Space Medicine Branch, NASA	Aerospace Medical Association, USA	One of top 10 % of the performances throughout the world	May 07, 2003

NATIONAL AWARDS / HONORS / RECOGNITION RECEIVED

Name of Awards	Awarded by	Awarded for	Date
Fellow	IETE India	Recognition of knowledge & outstanding R&D Works	Nov 02, 2020
Fellow	IE India	Recognition of knowledge & outstanding R&D Works	Sept 23, 2020
Fellow	ISAM, Indian Air Force	Recognition of knowledge & outstanding contribution in Aerospace Medicine	Sept 25, 2018
Career Award for Young Teacher	All India Council for Technical Education, India	Research & Development project grant of Rs 10.50 Lacs	Jan. 19, 2004
Dogra Gold Medal	Indian Institute of Technology (IIT) Delhi, India	Best publication in the Journals of International repute	Aug.10, 2002
Best Presentation	IIT Delhi, India	Lecture in QIP/ CEP summer school	July 12, 2002
Best Paper Awards	REEDCON 2023, JTACON-2020, ICANN-2016, INDICON-2015, ETEEE-2015, AIME-2006, New Delhi and NCCI-2007 by NIT India	Excellence in interdisciplinary research	Feb. 3, 2015

OTHER AWARDS

- Award of Honour for paper presentation by Indian Society of Aerospace Medicine, Indian Air Force at IAM Bangalore on Nov. 17, 2004.
- Consolation Award for IIT Guwahati for participation and presentation of assistive devices for physically handicaps in the exhibition organized by Ministry of Social Justice and Empowerment, Govt. of India at Patna, Bihar on Oct. 13, 2004.

RESEARCH AND DEVELOPMENT (R & D) WORKS

PATENTS AWARDED

1. A patent No. 547330 granted on 08 August, 2024 for an invention entitled “METHOD AND APPARATUS FOR ANALYTICAL CHARACTERIZATION AND IDENTIFICATION OF MATERIALS” with application No. 202111048713A for the term of 20 years from the 25th day of October 2021 in accordance with the provisions of the Patents Act,1970.
2. A patent No. 534483 granted on 23 April 2024 for an invention entitled "APPARATUS AND METHOD FOR WOUND HEALING" with application No. 202111014763A for the term of 20 years from the 31st day of March 2021 in accordance with the provisions of the Patents Act,1970.
3. A patent No. 531804 granted on 04 April 2024 for an invention entitled "THERAPEUTIC APPARATUS FOR POSTURE AND BALANCE" with application No. 201811004169A for the term of 20 years from the 4th day of February 2018 in accordance with the provisions of the Patents Act,1970.
4. A patent No. 514990 granted on 26 Feb 2024 for an invention entitled "FORCE MEASUREMENT SYSTEM FOR MASTICATORY MUSCLES", with application No. 202011001310A for the term of 20 years from the 11th day of January 2020 in accordance with the provisions of the Patents Act,1970.
5. A patent No. 490588 granted on 28 Dec 2023 for an invention entitled, “PORTABLE COTTON BALL PLUCKING DEVICE” with application No.3500/DEL/2015A for the term of 20 years from the 28th day of October 2015 in accordance with the provisions of the Patents Act,1970.
6. A patent granted on 20 Jan 2023 with certification of the design No. 347066-001 dated 31/07/2021 by registering in class 24-01 in respect of IMPEDANCE ANALYSER-CP 25. [In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001].

PATENTS PUBLISHED

1. Patent published on 8 January 2021 with application No. 202011052412A entitled "APPARATUS AND METHOD FOR DETERMINING AND ANALYZING BODY COMPOSITION" applied on 02 December 2020.
2. Patent published on 1 May 2020 with application No. 202011011219 entitled "POCKET SIZE PORTABLE WI-FI BASED BIO-ELECTRICAL IMPEDANCE MEASURING DEVICE" applied on 16 March 2020.

GRANT RECEIVED FOR RESEARCH AND DEVELOPMENT PROJECTS

1. Completed R & D project entitled “ Prediction and Measurement of Human Body Composition by Electrical Impedance Analysis using Electrical Impedance Tomography as Reference” Vide letter No. 1-51/FD/CA/ (010)/ 2003-04. A grant of Rs. 10.50 Lacs sponsored by AICTE, Ministry of Human Resources and Development (MHRD), Govt. of India.

2. Completed R & D project entitled “Biofeedback Controlled Anti G-Suit” Vide letter No. TC/ 226/ TASK-67(JMI)/ DIPAS/ 2003 starting from April 2003 to 2007. A grant of Rs. 4.15 Lacs sponsored by DRDO, Ministry of Defense, Govt. of India.
3. Completed R & D project entitled “Design and development of psychoacoustic devices” with Vide letter No. TC/ 361/ TASK-182(MK)/ DIPAS/ 2012 starting from May 2012 to Sept 2014. A grant of Rs. 9.95 Lacs sponsored by DRDO, Ministry of Defense, Govt. of India.
4. Completed R & D project entitled “vision based expert system for picking of cotton” with Vide letter No. CoEFM/CPCFM/12-13/81dated 11 Jan 2013. A grant of Rs. 79.95 Lacs sponsored by DST, Ministry of Sciences and Technology, Govt. of India

GRANT RECEIVED FOR GIAN COURSE/ PAC/ MAC/ INFRASTRUCTURE

1. Completed MHRD GIAN course on “Advance in Neurotechnologies for Building the Brain Machine Interfaces” Vide Letter No. IIT/GIAN/S-16/707 dated 8 Sept 16 from Feb 25 to March 1, 2017 at Department of Electrical Engineering Jamia Millia Islamia, New Delhi. A grant of Rs 8.16 Lacs sponsored by MHRD, Govt. of India.
2. Completed PAC-Electrical, Electronics and Computer Engineering meeting of R & D projects on February 2, 2017. A grant of Rs. 5.5 Lacs sponsored by DST, Ministry of Science And Technology, Govt. of India.
3. Completed the Project entitled “Creation of Microprocessors and Applications Laboratory” Vide letter No. MODROB 3-1/92.TD.VI from April 1993 to June 1994. A grant of Rs 10 Lacs sponsored by Ministry of Human Resources and Development (MHRD), Govt. of India.

SPECIAL ASSIGNMENTS

- Advisory Committee Core Member: Synergistic Training program Utilizing the scientific and Technological Infrastructure (STUTI) for evaluation of the proposals to set-up new STUTI Project Management Units (PMUs) and review of supported PMUs under STUTI training program, DST, Government of India. (From 2021 to till date)
- Subject Expert Committee Core Member: Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program, DST, Government of India. (from 2020 to till date).
- Prof. Munna Khan attended the three weeks of “Leadership for Academician Programme (LEAP)” organized by the UGC-Human Resource Development Centre, Jamia Millia Islamia (JMI) Central University, New Delhi, India. The two weeks (10th March to 20th March, 2019) were held at JMI Central University, New Delhi, India and one week (21st March to 31st March, 2019) held at University of Virginia, USA.
- Prof. Munna Khan selected as one of Speed Mentoring Mentors for learner participants during 90th Annual Scientific Meeting of Aerospace Medical Association (AsMA), USA on May 08, 2019 at All Rio suites hotel, Las Vegas, NV, USA.

- Prof. Munna Khan selected as one of Speed Mentoring Mentors for learner participants during 89th Annual Scientific Meeting of Aerospace Medical Association (AsMA), USA on May 09, 2018 at Hilton Anatole Hotel, Dallas, TX, USA.
- Prof. Munna Khan selected as one of Speed Mentoring Mentors for learner participants during 88th Annual Scientific Meeting of Aerospace Medical Association (AsMA), USA on May 03, 2017 at Hotel Sheraton Denver Downtown, CO, USA. National Aeronautics and Space Administration (NASA) is a corporate member of AsMA, USA.
- Research consultant for R & D Project of US Air Force entitled “The Air Force advanced micro-compression sock in deep venous thrombosis prevention” during May to July, 2007 at Wright State University (WSU), Dayton, OH, USA.
- Evaluation of R&D project of ICMR for Indo-UK program entitled “To study the validity of bioelectrical impedance for assessment of body composition in Asian Indian”.
- A Reviewer for International Journal of “Computer Methods in Biomechanics and Biomedical Engineering” published from Taylor & Francis, European Society of Biomechanics.

CONTRIBUTIION TO THE NATIONAL PRIDE

By carrying the Indian flag to 48th International Congress on Aviation and Space Medicine at Rio de Janeiro, Brazil on Sept. 17, 2000.

ACADEMIC/ ADMINISTRATIVE RESPONSIBILITIES INSIDE THE UNIVERSITY

- Prof Munna Khan as a Head of Electrical Engineering Department, Faculty of Engineering & Technology, JMI New Delhi.
- Prof Munna Khan as a Course Coordinator organized MHRD GIAN course on ‘Advance in Neurotechnologies for Building the Brain Machine Interfaces’ during February 25 –March 1, 2017 at Department of Electrical Engineering Jamia Millia Islamia, New Delhi.
- Organized the meeting of PAC-Electrical, Electronics and Computer Engineering on February 2, 2017 (Thursday) at 09:00 hrs at Jamia Millia Islamia, New Delhi

ORGANIZATION OF THE INTERNATIONAL/ NATIONAL CONFERENCE

- **Organizing Chair:** International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023) held during May 01-03, 2023 at JMI Central University, New Delhi, India.
 - **Track chair:** Electronics and nanotechnology
- 12th IEEE International Conference-INDICON- 2015 “Energy, Environment, Electronics, Computer, Control, Communication (E3 -C 3)”, 17-19 December 2015, Jamia Millia Islamia, New Delhi, INDIA.

➤ **Organizing Secretary**

National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2015); 2015 Feb 02-03 at EED, Faculty of Engineering & Technology, JMI, New Delhi.

Ph.D. AWARDED UNDER SUPERVISION: 17

- Mohammad Faisal (2023) : Assessment of the use of pulsed electromagnetic field to enhance bone healing in dentistry
- Ansar Ahmad (2023) : Bite Force Assessment in the Temporomandibular Disorders
- Md. Qaiser Reza (2023) : Design and development of a portable embedded system for pills detection.
- Shaila Parveen S.M. Ali (2023) : Assessment and monitoring of healing of bone fractures using non-invasive techniques.
- Charu Pawar (2021) : Assessment of osteoarthritis using non-invasive techniques.
- Kashif Islam Khan Sherwani (2020) : Design, Control and Quantification of wearable Exoskeleton for Rehabilitation.
- Mohd Tauheed Khan (2020) : Design and optimization of Carbon nanotube FET based Biomedical Circuits.
- Bharat B Sharma (2018) : Design and development of a system to modulate perceptive acoustic effects.
- Mosarrat Jahan (2018) : Analysis of EMG signals for subvocal speech recognition.
- Amged S.A. Mahmoud (2018) : Robust Control of Dynamic System VIA T-S Fuzzy Technique.
- Ajai Kumar Singh (2016) : Simulation of biophysical model of cardiac biosensors.
- Savita Sondhi (2016) : Voice Stress Analysis using software simulation.
- Ghazala Parveen (2015) : Prediction of body composition for Indian population using bioelectrical impedance analysis.
- Sharda Vasisth (2015) : Study of simulated blood pooling in the body segment of pilot under G stress

- Deepali Bansal (2011) : Design and development of a portable wireless system for detection of human physiological parameters.
- Shabana Urooj (2011) : Design and development of a computer based biophysical model for diagnosing Pulmonary Edema.
- PN Goswami (2010) : Prediction and measurement of body composition using non-invasive techniques.

Ph.D. THESIS ONGOING: 3

- Gaytri Gupta : Assessment of Psychological Stress Using Image Processing Technique.
- Lily Kumari : Development of Counter Measure Against Microwave Antipersonnel Directed Energy Weapons.
- Naved Alam : Design and development of low-level LASER device

M. Tech. Dissertation thesis: 19 and B. Tech Projects: 120 (Approximate)

S.No	Name of the Students	Degree awarded (with date)
1.	Syed Jafar Ali	08/2025
2.	Taha Alam	11/2024
3.	Saba Parveen	03/2024
4.	Mohd Arif Ali	02/2024
5.	Shoaa Akbari	04/2023
6.	Razia Begum	05/2022
7.	Naved Ansari	11/2021
8.	Adil Ahmad Rather	12/2021
9.	Malik Faizan	09/2020
10.	Bilal Ahmad	02/2020
11.	Mahboob Ali	05/2019
12.	Swati Pal	12/2018
13.	Deeksha Dayal	12/2018
14.	Md Emteyaz Ahmad	12/2017
15.	Km Brajesh	05/2016
16.	Durga Nand Mahaseth	05/2015
17.	Kashif Javed	05/2014
18.	Kavita Goyal	08/2008
19.	Deepali Bansal	10/2006

CONTRIBUTIONS AT DEPARTMENTAL LEVEL

- Introduction and development of theory and practical classes at under graduate and post graduate levels.
- Creation of laboratories:
 1. Health Care technologies Lab.
 2. Biomedical Instrumentation Lab.
 3. Microprocessors & applications lab
 4. Analog Electronics lab.
- Superintendent of B. Tech./ M.Sc. Electronics Entrance Test Examination.
- Assistant Superintendent of B.Tech/ BE examinations.
- Member of Faculty Committee, JMI Central University, New Delhi.
- Member of flying squad team for the examinations: 2005-06.
- BE Coordinator: 2002-2003

SUBJECTS TAUGHT AT MASTER AND UNDERGRADUATE LEVEL

➤ Theory Classes

Medical Electronics, Biomedical Instrumentation, Microprocessors & applications, Analog Electronics, Communication System, Active Network & Filter Design, Instrumentation & Measurements, Radar, TV, and Optical Communication Engineering, Electromagnetic Field Theory, Basic Electronics, Element of Electrical Engineering.

➤ Practical/ Laboratory classes

1. Microprocessor & applications Lab.
2. Analog Electronics Lab.
3. Digital Electronics Lab.
4. Communication Lab.
5. Active filter design Lab.
6. Instrumentation Lab.
7. Circuit Analysis Lab.
8. Electrical Engineering Lab.

ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES OUTSIDE THE UNIVERSITY

INVITED INTERNATIONAL LECTURES/TALKS

1. Delivered invited talk on “Applications of Biomedical Instrumentation in orthopedic surgery” at Wright State University, Dayton, OH, USA, on June 15, 2012.

2. Delivered invited talk in Ph.D. seminar on “Biofeedback Controlled Anti-G Suit: Simulation and Prototype Development” at Wright State University, Dayton, USA, on June 03, 2011.
3. Presentation and discussion on “Biomedical instrumentation and technology developments for an aircraft pilot under G stress” at Erik Jonsson School of Engineering and Computer Science, The University of Texas, Dallas, TX, USA on May 13, 2011.
4. Delivered invited talk in Ph.D. seminar on "Electrical impedance analysis and technology developments for high performance aircraft pilots" at Wright State University, Dayton, OH, USA, on May 22, 2009.
5. Delivered invited talk on "Theoretical, biophysical model simulation and prototype development of biofeedback controlled anti-g suit" at Wright State University, Dayton, OH, USA, on July 06, 2007.
6. Delivered invited talk on "Counter measures to reduce fatigue in the aircrew members" organized by Aerospace Nursing Society at KANSAS CITY, MO, USA, on May 12, 2005.
7. Delivered invited talk on "Present State-of-Art of Noninvasive Techniques for the Measurement of Human Body Composition" at Wright State University, Dayton, OH, USA, on May 27, 2005.
8. Delivered invited talks on "Aviation pilot’s biological response in high acceleration and related technological issues" at Wright State University, Dayton, OH, USA, on June 28, 2004.

INVITED NATIONAL TALKS/LECTURES

1. Delivered an expert lecture on “Human health care” during 97th Orientation Programme organized by Academic staff college, Jamia Millia Islamia (Central University), New Delhi on March 07, 2019.
2. Prof Munna Khan delivered a key note expert lecture entitled "Application of Electronics Engineering to increase G tolerance of an aircraft pilot" during International conference on “Information & Communication Technologies (ICT) Globalization and Automation” held on April 12-13, 2018 at IIMT College of Engineering, Greater Noida, Uttar Pradesh, India.
3. Prof Munna Khan delivered an expert lecture entitled "Electromagnetic Fields and its effects on human health" at Krishna Engineering College, 95, Loni Road, Between Mohannagar & Air Force Station-Hindon, Ghaziabad, UP, INDIA on June 12, 2017. A number of Assistant Professors/ Associate Professors/ Professors attended Faculty development program were from various Engineering Colleges/ Institutes/ Universities of INDIA.
4. Delivered an invited talk/ lecture on “Recent trends of Biomedical Engineering” held on Feb 13, 2016 at Zakir Husain college of Engineering & Technology, AMU Aligarh, UP.
5. Delivered an invited talk on “assessment of human physiological parameters using communication systems” in the International conference on “soft computing techniques and implementations” held during Oct. 8-10, 2015 at MRI University, Faridabad, INDIA.
6. Delivered an invited talk on “Multi-dimensional applications of Mechatronics” in Faculty development programme on “Mechatronics & Robotics in Manufacturing Industries” held during Feb 27 to March 12, 2015 conducted by Department of Mechanical Engineering, F/O Engineering & Technology, Jamia Millia Islamia, New Delhi.
7. Delivered a plenary lecture on “Application of finite element methods for aircraft pilot” in the National conference on “Advances in Mechanical Engineering” held during Nov. 27-28, 2010 at AMU Aligarh, UP.
8. Delivered an invited talk on “Defence and civilian applications of instrumentation technology” during one day seminar on recent trends in Instrumentation Technology held at Galgotia Institute of Engineering and Technology, Greater Noida on Nov. 18, 2009.
9. Delivered an expert lecture on “Human body composition and health care” during 87th Orientation Programme organized by Academic staff college, Jamia Millia Islamia (Central University), New Delhi on March 07, 2009.
10. Delivered invited talk on “Recent trends in body composition measurement” during Summer School sponsored by ISTE at AIT, New Delhi on May 08, 2008.
11. Delivered invited talk on “Biomedical instrumentation to increase G tolerance of aircraft pilot” during All India Seminar on Biomedical Engineering and bioinformatics held during March 24-25, 2007 at Anand Engineering College, Agra, UP.
12. Delivered invited talk on “Multi-dimensional applications of biomedical instrumentation” during Winter School sponsored by ISTE at National Institute of technology (NIT) Jalandhar on March 09, 2007,
13. Delivered distinguished talk on "Impedance Plethysmography in the measurement of Autonomic Functions and Hemodynamics” held during March 17-18, 2006 at All India Institute of Medical Sciences (AIIMS), New Delhi,

14. Delivered a presentation on "Modern Electro Surgical Equipment" in the seminar on 'Electrosurgical Instruments' on May 17, 2004, conducted by IIT Kharagpur at DST, Ministry of Science and Technology, Govt. of India.

ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES

- External Expert Member for board of studies (BOS) of Electrical Engineering, DCR University of Sciences & Technology, Murthal (SONIPAT), Haryana, India.
- International Advisory Committee member of 3rd International Conference on Electronic Design (ICED) to be held during Aug 11- 12, 2016 at Phuket, Thailand.
- National Advisory Committee member of National Conference on recent technological developments in electronics and electrical engineering to be held during Aug 12- 13, 2016 at Jaipur Engineering College and Research Centre, Jaipur, India.
- Judge for the event “Insignia” The Logo design Competition to be held as “Zest- 2016” on Monday, 5th October 2015 at Dr MA Ansari Auditorium, JMI New Delhi.
- Chairman in Technical Session of Track 2 on Communications in the International conference on “soft computing techniques and implementations” held during Oct. 8-10, 2015 at MRI University, Faridabad, India.
- Chairman in Technical Session VI B of Track 3 on Biomedical Instrumentation in the National Conference on Emerging Trends in Electrical and Electronics Engineering held during 2015 Feb 02-03 at JMI New Delhi.
- Expert Member in Selection Board of UPSC, New Delhi, India.
- Expert committee member for evaluating the progress of DRDO R & D project at DIPAS, Delhi, India.
- Chief Guest in the National Conference on “Advances in Mechanical Engineering” held during Nov. 27-28, 2010 at Aligarh Muslim University, Aligarh, UP, INDIA.
- Examiners of Ph.D. Thesis/Evaluation of various universities/ colleges.
- Examiners of M. Tech dissertations/ B.Tech. projects of various universities/ colleges.

CO-SUPERVISOR OF MASTER OF DENTAL SURGERY AT AIIMS NEW DELHI

1. Finite element analysis. 2. Bite force analysis.

INTERNATIONAL FELLOWSHIPS

1. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in the “93rd Annual Scientific Meeting of Aerospace Medical Association held during May 21-25, 2023 at Sheraton New Orleans Hotel, LA, USA.
2. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in the “89th Annual Scientific Meeting of Aerospace Medical Association held during May 06-10, 2018 at Hilton Anatole Hotel, Dallas, TX, USA.
3. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in the “86th Annual Scientific Meeting of Aerospace Medical Association held during May 10-14, 2015 at Lake Buena Vista, Orlando, FL, USA.
4. CSIR International Travel Fellowship: The Council of Scientific & Industrial Research (CSIR) and Jamia Millia Islamia, New Delhi together gave international travel fellowship to attend and present a research paper in the 83rd Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2012 at Atlanta, GA, USA.
5. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India and Haryana Wakf Board, Govt. of Haryana together gave international travel fellowship to attend and present a research paper in the 82nd Annual Scientific Meeting of Aerospace Medical Association held during May 8-12, 2011 at D. Convention Centre, Anchorage, AK, USA.
6. AICTE International Travel Fellowship: The All India Council for Technical Education (AICTE), Ministry of Human Resources and Development, Govt. of India and Jamia Millia Islamia, New Delhi together gave international travel fellowship to attend and present a research paper in the 80th Annual Scientific Meeting of Aerospace Medical Association held during May 3-7, 2009 at Westin Bonaventure Hotel, Los Angeles, CA, USA.
7. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India and Wright State University, Dayton, Ohio, USA together gave international travel fellowship to attend and present a research paper in 78th Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2007 at Sheraton Hotel, New Orleans, LA, USA.
8. CSIR International Travel Fellowship: The Council of Scientific & Industrial Research (CSIR) and Jamia Millia Islamia, New Delhi together gave international travel grant to attend and present a research paper in the 76th Annual Scientific Meeting of Aerospace Medical Association held during May 8-12, 2005 at Kansas City, Missouri, USA.
9. AICTE International Travel grant: The All India Council for Technical Education (AICTE), Ministry of Human Resources gave international travel grant (Part of Career Award for Young Teacher) for doing R & D work on Body Composition during May-July, 2004 at Wright State University, Dayton, Ohio, USA.

10. AICTE International Travel Fellowship: The All India Council for Technical Education (AICTE), Ministry of Human Resources and Development, Govt. of India gave international travel fellowship to attend and present a research paper in the 74th Annual Scientific Meeting of Aerospace Medical Association held during May 4-9, 2003 at San Antonio, Texas, USA.
11. DST International Travel Fellowship: The Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India gave international travel fellowship to attend and present a research paper in 48th International Congress on Aviation and Space Medicine held during September 10-14, 2000 at Rio de Janeiro, Brazil.

PROFESSIONAL SOCIETIES & ACTIVITIES

Life Members :

- (1) Indian Society of Aerospace Medicine, Air Headquarters, INDIA.
[Membership No. ISAM/101/01/01].
- (2) Biomedical Engineering Society of INDIA.
- (3) Indian Society of Technical Education, INDIA.
[Membership No. LM-34115].
- (4) Life Member of Indian Society for the Study of Reproduction and Fertility (ISSRF)
[life membership No. is 1609]

Active Members :

- (1) Aerospace Medical Association, USA
[Membership No. 15656].
- (2) IEEE society of Engineering in Medicine and Biology, USA.
[Membership No. 90605199].

Faculty Advisor : Student Chapter of IEEE Engineering in Medicine and Biology at Jamia Millia Islamia (A Central University), New Delhi, India.

RESEARCH COLLABORATIONS

Prof. Tarun Goswami, Dr. David B. Reynolds, and Dr. Roberta L. Pohlman,
Wright State University, Dayton, USA.

Dr. Reggie B. O'hara, Research Physiologist,
Wright Patterson Air Force Base, Dayton, Ohio, USA.

PUBLISHED ORIGINAL RESEARCH ARTICLES IN INTERNATIONAL JOURNALS

With Impact Factor and Citation Index

Cite Score, SNIP (Source Normalized Impact per Paper), SJR (SCImago Journal Rank), H-Index

Indexed Web of Science and Scopus International Journals

1. Kumari, L. and Khan, M., 2025. A Novel Planar Antenna with Mushroom Shaped DGS for WBAN Applications. Indian Journal of Pure & Applied Physics (IJPAP), 63(4), pp.301-311.
(Impact factor = 0.846, Cite Score=1.6, SNIP= 0.327, SJR=0.176, H-index =46)
2. Pawar C, Khan M, Saini JP, Singh D, Bhardwaj M, Hu YC (2024). Implementation of Bioelectrical Impedance Measuring Instrument Based on Embedded System. Mathematical Problems in Engineering, vol. April 2024, Article ID 1024006, 10 pages, Online ISSN:1024123X, Print ISSN: 15635147. doi.org/10.1155/2024/1024006.
(Impact factor = 2.10, Cite Score=2.6, SNIP=0.709, SJR=0.367, H-index =85)
3. Khan M, Kumari L, Zahreeuddin (2024). A Novel UWB Planar Antenna for Biomedical Applications based on CB - CPW Technique. Indian Journal of Pure & Applied Physics; 62 (10): 884-896. ISSN: 00195596, 09751041. DOI: 10.56042/ijpap.v62i10.11933.
(Impact factor = 0.846, Cite Score=1.6, SNIP= 0.327, SJR=0.176, H-index =46)
4. Khan M, Faisal M, Ahmad SA, Ahmad L, Shaila PSMA Sirdeshmukh (2022). Low Intensity Pulsating Electromagnetic Field as an Adjunctive Therapy for Bone Regeneration around Fractures, Dental Implants and Orthodontic Therapy-A Clinical Update. Journal of Clinical & Diagnostic Research 16(1), ZE05-ZE08. Online ISSN: 0973-709X, Print ISSN: 2249-782X doi.org/10.7860/JCDR/2022/50520/15898.
(Impact factor = 1.148, Cite Score=0.839, SNIP=0.393, SJR=0.289, H-index =56)
5. Ahmad SA, Khan M, Asif I, Faisal M, Alam N, Hasan S (2021). Prognostic criteria for the management of temporomandibular disorders using arthrocentesis with normal saline and arthrocentesis with normal saline and platelet-rich plasma. Journal of Medicine and Life ;15(5): 698-704. ISSN No. 1844122X, 18443117, doi: 10.25122/jml-2021-0240.
(Impact factor = 1.474, Cite Score=2.054, SNIP=Nan, SJR=0.385, H-index =41)
6. Brajesh KM, Pawar C, Pal K, Khan M (2022). Evaluation of Bone Fracture Using Bio Electrical Impedance Analysis Techniques: A Review. Neuro Quantology; 20(11): 5779-5789, ISSN No. 13035150, doi: 10.14704/NQ.2022.20.11. NQ66577.
(Impact factor = 1.576, Cite Score=1.054, SNIP=1.0, SJR=0.214, H-index =25)
7. Khan M, Faisal M, Ahmad L, (2022). Biophysical therapy using the pulsating electromagnetic field as adjunctive therapy for implant osseointegration–A review. National Journal of Maxillofacial Surgery, 13 (Suppl 1), pp.S11-S18. ISSN: 09755950, 22293418. Quartile: Q3.
(Impact factor = 0.678, Cite Score= 1.2, SNIP= 0.662, SJR= 0.271, H-index =08)

8. Khan M, Reza MQ, Salhan AK, Shaila PSMA Sirdeshmukh (2021). Classification of oils by ECOC based multi-class SVM using spectral analysis of acoustic signals. *Applied Acoustics*, 183 (12): 108273. ISSN No. 0003682X, 1872910X. doi: 10.1016/j.apacoust.2021.108273
(Impact factor = 2.639, Cite Score=5.4, SNIP=1.614, SJR=0.824, H-index =82)
9. Ahmad SA, Hasan S, Saeed S, Khan A, Khan M (2021). Low-level laser therapy in temporomandibular joint disorders: a systematic review. *Journal of medicine and Life*, 14 (2): 148-162. ISSN No. 1844-122x, 1844-3117
(Impact factor = 0.924, Cite Score=1.9, SNIP=Nan, SJR=0.354, H-index =36)
10. Khan M, Brajesh KM, Pal K. (2021). Design and Development of Software and Hardware Modules of Bioimpedance System Using LTSpice. *Lecture Notes in Electrical Engineering*, vol 701: 187-199. ISSN No. 1876-1119, 1876-1100. Springer DOI: 10.1007/978-981-15-8297-4_16. Quartile: Q4.
(Impact factor = 0.380, Cite Score=0.7, SNIP= 0.145, SJR=0.147, H-index =45)
11. Pawar C, Khan M, Saini JP (2021). Validity and reliability of micro-controller based BIA instrument for assessment of upper and lower limb in male subjects at multi-frequency. *Journal of University of Shanghai for Science and Technology*, 23 (8): 262-770. ISSN: 1007-6735. DOI: 10.51201/JUSST/21/07181
(Impact factor =0.350, Cite Score=0.227, SNIP =, SJR = 0.12, H-index =12)
12. Khan, M., & Sirdeshmukh, S. P. (2021). Wound Healing In Humans By Optimization Of Low Frequency Signal For Pulsed Electromagnetic Field Therapy. *Journal of Experimental Biology and Agricultural Sciences*, 9(6), 855–862. ISSN No. 2320–8694, DOI: 10.18006/2021.9(6).855.862
(Impact factor = 0.159, Cite Score=0.200, SNIP = 0.122, SJR = 0.108, H-index = 11)
13. Ahmad SA, Khan M, Iqbal MA, Rao F (2021). Measurement of Bite Force in Adult Population of North India Using Two Different Bite Force Measuring Devices. *Turkish Online Journal of Qualitative Inquiry*, 12 (9): 1679-1684. E-ISSN: 1309-6591.
(Impact factor = 0.313, Cite Score=0.200, SNIP = ---, SJR = ---, H-index = 03)
14. Kashif I.K.S., Kumar N., Chemori A, Khan M, Mohammed S (2020). RISE-based adaptive control for EICoSI exoskeleton to assist knee joint mobility. *Robotics and Autonomous Systems*, 124 (2): 1-11, Paper ID: 103354. ISSN No. 09218890, doi: 10.1016/j.robot.2019.103354
(Impact factor = 4.3, Cite Score=9.1, SNIP=2.232, SJR=0.988, H-index =109)
15. Pawar C, Khan M, Saini JP (2020). Assessment of Human Arm Bioelectrical Impedance using Microcontroller Based System. *International Journal of Integrated Engineering*, 12 (4): 172-181. ISSN No. 2229838X. doi: 10.30880/ijie.2020.12.04.016
(Impact factor = 1.02, Cite Score=0.94, SNIP = 0.274, SJR = 0.199, H-index = 7)
16. Khan M, Reza MQ, Salhan AK, Shaila PSMA Sirdeshmukh (2019). Acoustic resonance spectroscopy based simple system for spectral characterization and classification of materials.

Journal of Intelligent & Fuzzy Systems, 36(5): 4389-4397. ISSN No. 18758967, 10641246. DOI: 10.3233/JIFS-169994

(Impact factor = 1.737, Cite Score=1.96, SNIP=0.818, SJR=0.412, H- Index = 52)

17. Khan M, Khan, MT, Hasan M (2019). High efficiency RF energy harvesting CNTFET rectifier for bio-implants applications. International Journal of Engineering and Advanced Technology 9(1), pp. 4396-4402. ISSN No. 22498958.

(Impact factor = 1.02, SNIP = 0.087, SJR = 0.104, H-index = 14)

18. Sherwani K, Kumar N, and Khan M (2018). Effect of Voluntary and Involuntary Joint Movement on EEG Signals. Journal of Scientific & Industrial Research, 77 (12): 710-712. ISSN No. 09751084, 00224456.

(Impact factor = 0.735, Cite Score= 0.62, SNIP=0.306, SJR=0.463, H-Index = 46)

19. Khan M and Jahan M (2018). Classification of myoelectric signal for sub-vocal Hindi phoneme speech recognition. Journal of Intelligent & Fuzzy Systems, 35(5): 5585-5592. DOI: 10.3233/JIFS-161067; ISSN No. 18758967, 10641246

(Impact factor = 1.637, Cite Score = 1.96, SNIP=0.818, SJR=0.412, H-Index = 52)

20. Pawar C, Khan M, Saini JP (2018). Design and analysis of adjustable constant current source with multi frequency for measurement of bioelectrical impedance. International Journal of Applied Engineering Research, 13 (1): 262-267. ISSN No. 09739769, 09734562.

(Impact factor =0.51, Cite Score=0.94, SNIP= 0.5, SJR = 0.122, H-index = 25)

21. Khan M, Mahmoud ASA (2018). TS Fuzzy Controller of Maglev System Based on Relaxed Stabilization Conditions. Lecture Notes in Networks and Systems; Springer Nature 2018; 7: 555-563. ISSN No. 23673370.

(Cite Score=0.40, SNIP= 0.0, SJR = 0.13, H-index = 8)

22. Vashisth S, Khan M, Vijay R, Salhan AK (2017). A review of high G-stress induced problems and their solutions. International Journal of Medical Engineering and Informatics, 9(1):47-60. ISSN No. 17550661, 17550653.

(Impact factor =0.63, Cite Score= 0.627, SJR = 0.163, H-Index =11).

23. Khan M, Siddique AS, Mahmoud ASA (2016). Robust H_{∞} Control of Magnetic Levitation System Based on Parallel Distributed Compensator. Ain Shams Engineering Journals, 2018; 9(4): 1119-1129. ISSN / ISBN No. 20904479

(Impact factor = 3.091, Cite Score= 2.89, SNIP=1.212, SJR=0.402, H-Index = 32)

24. Khan M, Vashisth S, Vijay R, Salhan AK (2016). Non-invasive measurement and subsequent analysis of human carotid pulse for ground based simulation of G-stress. International Journal of Bioinformatics Research and Applications, 12(3): 227-237. ISSN No. 17445493, 17445485.

(Impact factor = 0.470, Cite Score= 0.518, SNIP = 0.270, SJR =0.120, H-Index =16).

25. Mahamoud ASA, Khan M, Siddique AS (2016). Robust H_{∞} State feedback controller for discrete-time takagi-sugeno systems. Journal of Electrical Engineering, 16(4): 467-473. ISSN No. 13353632.
(*Impact factor = 0.697, Cite Score=0.88, SJR = 0.231, H-Index = 26*).
26. Khan M, Singh AK, Iqbal SS (2015). SPICE Simulation of Implantable Solar Power Supply for Sustainable Operation of Cardiac Biosensors. International Journal of Biomedical Engineering and Technology 2015; 18(2): 168-185. ISSN No. 17526426, 17526418.
(*Impact factor = 0.57, Cite Score=0.778, SNIP = 0.43, SJR = 0.24, H-Index = 13*)
27. Khan M, Vashisth S, Vijay R, Salhan AK (2015). Computer based real time systems for analyzing cardiovascular response to orthostatic stress. Biocybernetics and Biomedical Engineering, 35 (4): 232-239. ISSN No. 0208-5216.
(*Impact factor = 2.159, Cite Score= 2.57, SNIP= 1.392, SJR=0.597, H-Index = 22*)
28. Sondhi S, Khan M, Vijay R, Salhan AK, Chauhan S. (2015). Acoustic analysis of speech under stress. International Journal of Bioinformatics Research and Applications; 11(5): 417-432. ISSN No. 17445493, 17445485.
(*Impact factor = 0.47, Cite Score=0.476, H-Index = 15, SJR = 0.149*).
29. Khan M, Zaheeruddin, Singh AK (2013). Solar cell based DC-DC boost converter for implantable cardiac pacemaker: a computer simulation. International Journal of Biomedical Engineering and Technology 2013; 12 (3): 215-227. ISSN No. 17526426, 17526418.
(*Impact factor = 0.57, Cite Score=0.778, SNIP = 0.43, SJR = 0.24, H-Index = 13*)
30. Urooj S, Khan M, Ansari AQ, Ekuakille AL, Salhan AK (2012). Prediction of Quantitative Intrathoracic Fluid Volume to Diagnose Pulmonary Edema Using LabVIEW. Computer Methods in Biomechanics and Biomedical Engineering, 15 (8): 859-64. ISSN No. 1476-8259, 1025-5842.
(*Impact factor = 1.610, Cite Score= 1.23, SNIP= 0.727, SJR=0.492, H-Index = 52*)
31. Vashisth S, Khan M, Vijay R, Salhan AK. Online acquisition and wireless transmission of carotid pulse waveforms to analyse posture related changes. International Journal of Biomedical Engineering and Technology 2012; 10 (3): 255-265. ISSN No. 17526426, 17526418.
(*Impact factor = 0.57, Cite Score=0.778, SNIP = 0.43, SJR = 0.24, H-Index = 13*)
32. Bansal D, Khan M, Salhan AK (2009). Real time acquisition and PC to PC wireless transmission of human carotid pulse waveform. Computers in Biology and Medicine, 39 (10): 915-20. ISSN No. 18790534, 00104825.
(*Impact factor= 2.286, Cite Score= 5.4, SNIP= 1.563, SJR=0.834, H-Index =75*)
33. Bansal D, Khan M, Salhan AK (2009). A computer based wireless system for online acquisition, monitoring and digital processing of ECG waveforms. Computers in Biology and Medicine, 39 (4): 361-367. ISSN No. 18790534, 00104825.
(*Impact factor= 2.286, Cite Score= 5.4, SNIP= 1.563, SJR=0.834, H-Index =75*)

34. Bansal D, Khan M, Salhan AK. (2009). A Real Time Embedded set up Based on Digital Signal Controller for Detection of Bio-Signals Using Sensors. *Sensors & Transducers*; 105 (6): 26-32. ISSN No. 17265479, 23068515.
(*Impact factor* = 0.57, *Cite Score*=0.195, *SJR* = 0.145, *H-Index* = 13)
35. Bansal D, Khan M, Goel D, Salhan AK (2008). Statistical Analysis of Human Physiological Parameter using Six Sigma Techniques. *LECTURE NOTES IN ENGINEERING AND COMPUTER SCIENCE*, 2008; 4: 100-101. ISSN No. 20780958.
(*Impact factor*= 0.22, *Cite Score*= 0.066, *SNIP*= Nan, *SJR*=0.106, *H-Index* =22)
36. O'Hara, R.B., Khan M, R.L, Pohlman, J.F. Schlub, L.L Laubach, E. Eveland (2007). Effects of Increased Leg Resistance Training and Reduced Aerobic Training On Selected Physiological Parameters In United States Air Force Men And Women. *International Journal of Exercise Physiology (Online)*, 10(5): 16-34. ISSN No. 10979751.
(*Impact factor* = 0.29, *Cite Score*=0.355, *SNIP* = 0.176, *SJR* = 0.197, *H-Index* = 22)
37. Khan M, Reggie OH, Pohlman RL, Goldstein DB, Guha S.K (2005). Multi-Dimension Applications of Bioelectrical Impedance Analysis. *International Journal of Exercise Physiology (Online)*, 8(1): 56-71. ISSN No. 10979751.
(*Impact factor* = 0.29, *Cite Score*=0.355, *SNIP* = 0.176, *SJR* = 0.197, *H-Index* = 22)
38. Reggie OH, Khan M, Pohlman RL, Schlub J (2004). Leg resistance training: effects upon cardiovascular fitness (vo2 peak) and skeletal muscle myoplasticity. *International Journal of Exercise Physiology (Online)*, 7(5): 27-43. ISSN No. 10979751.
(*Impact factor* = 0.29, *Cite Score*=0.355, *SNIP* = 0.176, *SJR* = 0.197, *H-Index* = 22)
39. Khan M and Guha SK (2002). Prediction of electrical impedance parameters for the simulated leg segment of aircraft pilot under G-stress. *Aviation, Space and Environmental Medicine*, 73 (6): 558-64. ISSN No. 00956562.
(*Impact factor*= 0.904, *Cite Score*= 0.69, *SNIP*= 0.609, *SJR*=0.463, *H-Index* =62)

Other Indexed International Journals

40. KM Brajesh, Abha Kumari, Kirti Pal, Munna Khan (2025). Design and Implementation Of an Esp32-Based Iot Bioimpedance Device for Real-Time Health Monitoring. *International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)*, 14(4): 7860-7866, e-ISSN: 2319-8753| p-ISSN: 2347-6710, |DOI: 10.15680/IJIRSET.2025.1404286
41. Alam N, Khan M, Sherwani KIK, Kadam KU, Singh P (2024). Optimizing Wound Classification: A Deep Learning Method with VGG16 and Feature Selection for Clinical Application. (2024). *African Journal of Biomedical Research*, 27(2S), 506-514. ISSN 1119-5096. <https://doi.org/10.53555/AJBR.v27i2S.2016>
42. Alam N and Khan (2023). Low Level Laser on Multilayer Skin Tumour using Monte - Carlo Simulation". *Medicon Engineering Themes (MCET)* 2023; 5(6): 25-32. ISSN: 2834-7218.
(*Impact factor* = 1.653)

43. Faisal M, Khan M (2023). Dental Implants and Osteoporosis - A Clinical Update. International Journal of Science and Research (IJSR). 12(3):867-873, ISSN: 2319-7064, DOI: 10.21275/SR23316114204
44. Suhail M, Ahmad A, Kirmani S, Khan M (2022). A Novel Rule based Energy Management Strategy using Fuzzy Logic for Power Management of Plug-in Hybrid Electric Vehicle in Parallel Operation. Grenze International Journal of Engineering & Technology (GIJET) 2022; 8(1): 7-13. ISSN: 2395-5295 (Online); 2395-5287 (Print).
(Impact factor = 6.03 (SJIF))
45. Khan M, Ahmad SA, Faisal M (2021). Role of Novel Gnathodynamometer for Measurement of Bite Force in Adult Population of North India. IOSR Journal of Dental and Medical Sciences, 20(6), pp.1-4. ISSN No. 2279-0861. DOI: 10.9790/0853-2006010104
46. Khan M and Alam N (2020). Low level laser therapy for non-invasive dental applications: A review. International Journal of Engineering Research & Technology 2020; 9(7): 1556-1562. ISSN No. 2278-0181.
(Indexed by PubMed, Google Scholar, Science Open and OCLC)
47. Brajesh KM, Pal K, Khan M (2020). Assessment of Human Joints Using Bioelectrical Impedance Technique. Studies in Indian Place Names (UGC Care Journal) 2020; 40: 278. ISSN No. 23943114.
(Impact factor = 6.3 (RF))
48. Pawar C, Khan M, Saini JP (2020). Bioelectrical Impedance Measuring Device Based on Principle of Multi frequency and Multi Segments. Studies in Indian Place Names (UGC Care Journal) 2020; 40: 231-237. ISSN No. 23943114.
(Impact factor = 6.3 (RF))
49. Khan MT, Khan M, Hasan M (2018). Low voltage CNTFET rectifier for wirelessly power up of implantable devices. International Journal of Research and Analytical Reviews 2018; 5: 126-132. ISSN No. 23481269, 23495138.
(Impact factor = 5.75).
50. Khan MT, Khan M, Hasan M (2018). A Low Voltage High Efficiency CNTFET Based Rectifier for Wirelessly Power Up of Biomedical Implantable Devices. International Journal of Scientific Research and Review 2018; 7(11): 93-103. ISSN No. 2279-543X.
(Scientific Journal Impact factor = 6.1).
51. Sharma BB and Khan M (2016). Acoustic Source Perception of Human under Noise: A Comparative Assessment. International Journal of Computer Applications, 2: 1-4. ISSN No. 09758887.
(Impact Factor: 0.78)
52. Khan M and Jahan M (2016). Sub-vocal speech pattern recognition of Hindi alphabet with surface electromyography signal. Perspectives in Science, 8: 558-560. ISSN No. 22130209.

53. Khan M, Sirdeshmukh SPSMA, Javed K (2016). Evaluation of bone fracture in animal model using bio-electrical impedance analysis. *Perspectives in Science*, 8: 567-569. ISSN No. 22130209.
54. Khan M, Sharma BB, Javed K (2016). Pervasive Approach to Acoustic Source Perception in Horizontal Plane. *Perspectives in Science*, 8: 667-669. ISSN No. 22130209.
55. Khan M and Sharma BB (2015). Design and implementation of acoustic source for analysis of sound perception. *Journal of Basic and Applied Engineering Research* 2015; 2(10): 800-803. ISSN No. 23500255, 23500077.
(*RG Journal Impact: 0.26*)
56. Khan M, Mehfuz S, Khan GP, Goswami PN (2015). Multi-compartmental Models to Assess the Body Composition of Indian Subjects and Validation of Result by Developing Prediction Equation. *International Journal of Research Studies in Biosciences*, 3 (5): 209-228. ISSN No. 2349-0365, 2349-0357.
57. Khan M and Jahan M (2015). The application of AR coefficients and burg method in Sub-Vocal EMG pattern recognition. *Journal of Basic and Applied Engineering Research* 2015; 2(10): 813-815. ISSN No. 23500255, 23500077.
(*RG Journal Impact: 0.26*)
58. Khan M, Sondhi S, Vijay R, Salhan AK (2015). Fundamental Frequency of Voice under Normobaric and Hypobaric Hypoxia. *Indian Journal of Aerospace Medicine*, 59 (2): 37-43. ISSN No. 0970-6666.
(*Index: Google Scholar, CrossRef, ReadCube, National Science Library, Index Copernicus*)
59. Sondhi S, Khan M, Vijay R, Salhan AK (2015). Effect of Normobaric and Hypobaric Hypoxia on Formant Characteristics of Human Voice. *International Journal of Computer Applications* 2015; 122(15): 32-37. ISSN No. 09758887.
(*Impact Factor: 0.78*)
60. Sondhi S, Khan M, Vijay R, Salhan AK, Sharma SK (2015). Vocal Indicators of Emotional Stress. *International Journal of Computer Applications* 2015; 122(15): 38-43. ISSN No. 09758887.
(*Impact Factor: 0.78*)
61. Khan M, Mehfuz S, Khan GP (2014). Interpreting health status of Indian population using phase angle as health parameter. *International Journal of Research in Engineering and Science* 2014; 2(8): 45-56. ISSN No. 2320-9364, 2320-9356.
62. Khan M, Mehfuz S, Khan GP (2014). Interpreting health status of mixed population using BCA. *Wyno Academic Journal of Medical Sciences*, 3(1): 1-18. ISSN No. 2320-1282.
63. Khan M, Mehfuz S, Khan GP (2014). Generalized Sex and Age Specific Body Composition Prediction Equations for Indian Subjects. *International Journal of Computational Engineering Research*, 4(3): 1-17. ISSN No. 22503005.
(*Impact factor = 1.1414, AQCJ Impact factor = 6.41*).

64. Khan M, Mehfuz S and Khan GP, (2014). Bioelectrical impedance analysis (BIA) for assessing TBW and FFM of indian females. Int. J. Comput. Eng. Res, 4(3), pp.1-17. ISSN: 2250-3005
65. Vashisth S, Khan M, Vijay R, Salhan AK (2013). Acquisition and Analysis of Human Carotid Pulse Waveforms during Tilt Table Maneuvers. International Journal of Applied Biomedical Engineering, 6(1): 32-39. ISSN No. 1906-4063.
(Impact factor = 0.267).
66. Khan GP, Khan M, Mehfuz S (2013). Development and Validation of prediction for estimating resting energy expenditure in Indian subjects. IOSR Journal of Electrical and Electronics Engineering, 7 (2): 06-09. ISSN No. 22781676, 23203331.
(AQCJ Impact factor = 3.26).
67. Khan GP, Khan M, Mehfuz S (2013). Development of Bioelectrical Impedance Analysis Equations (BIA) Equations to Predict Body Composition of Indian Males. World Applied Programming 2013; 3(1): 14-33. ISSN No. 22222510.
68. Khan GP, Khan M, Mehfuz, S (2013). Comparative study of 2C molecular level, 3C water molecular level and 3C mineral molecular level of Indian subjects. International Journal of Advancements in Research & Technology, 2 (2): 1-21. ISSN No. 22787763.
(Impact factor = 2.2)
69. Khan GP, Khan M, Mehfuz S (2013). Generalized Sex and Age Specific Body Composition Prediction Equations for Indian Subjects. International Journal of Computational Engineering Research, 3(12): 1-15. ISSN No. 22503005.
(Impact factor- 1.1414, AQCJ Impact factor = 6.41).
70. Urooj S, Khan M, Ansari AQ, Salhan AK (2013). Measurement of Thoracic Impedance and Approximations: A Diagnosis Technique for Clinical Utilization. Indian Journal of Industrial and Applied Mathematics 2013; 4(1a): 61-67. ISSN No. 1945-919X, 0973-4317.
(RG Journal Impact: 0.50)
71. Khan GP, Khan M, Mehfuz S (2013). Developing linear multiple regression model of Indian males and validating the results with BIA analyser. Wyno Academic Journal of Medical Sciences 2012; 1(1): 12-24. ISSN No. 23201282.
72. Bansal D and Khan M (2011). Realization of Digital Filter structures in MATLAB. International Journal of Communication and Computer, 8 (2): 150-152. ISSN No. 19301553, 15487709.
(Impact factor = 0.233)
73. Khan GP, Khan M, Mehfuz S. Multi-frequency Bioelectrical Impedance Analysis (BIA) for Assessing TBW and FFM of Indian Females. International Transactions in Mathematical Sciences and Computers 2011; 4: 47-64. ISSN No. 0975-3753, 0974-5068.

74. Urooj S, Khan M, Ansari AQ. Thorax: Physiological Monitoring and Modeling for Diagnosis of Pulmonary Edema. International Journal on Measurement Technologies and Instrumentation Engineering 2011; 1(2): 54-60. ISSN No. 21561729, 21561737.
(Average Impact Factor = 0.64)
75. Goswami PN. Khan M, Moinuddin. Human body composition methods: Recent advances and directions of research. International Journal of Pure and Applied Mathematika Sciences 2008; 67 (1): 65-81. ISSN No. 03793168.
76. Goswami PN. Khan M, Moinuddin. Bio-impedance analysis, its merits, recent advances and clinical applications-A review. International Journal of Pure and Applied Mathematika Sciences 2008; 67 (1): 35-52. ISSN No. 03793168.
77. Urooj S and Khan M. Sub-optimal controller for airframe model of harrier AV-8A VTOL Aircraft. South East Asian Journal of Mathematics and mathematical sciences 2008; 7(1): 77-88. ISSN No. 25820850, 09727752.
78. Khan M and Guha SK. Prediction of simulated Blood Pooling in the Leg Segment of an Aircraft pilot under G stress. Indian Journal of Aerospace Medicine 2004; 48 (1): 47-52. ISSN No. 0970-6666.
(Index: Google Scholar, CrossRef, ReadCube, National Science Library, Index Copernicus)
79. Khan M. Computer design of biofeedback controller for an anti G suit. Indian Journal of Aerospace Medicine 2004; 48 (2): 63-67. ISSN No. 0970-6666. **Protected by US copyright Law.**
(Index: Google Scholar, CrossRef, ReadCube, National Science Library, Index Copernicus)

WEB OF SCIENCE INDEXED ARCHIVAL ABSTRACTS

80. Khan M, Sherwani KIK, Siddiqui UN, Usmani A, Khan, AA, Khan MM (2025). Assessment of human lungs capacity during simulated push pull maneuvers of an aircraft pilot. Aerospace Medicine and Human Performance, 96 (8): 649-650. ISSN No. 23756322, 23756314 (SCI).
(Quartile Q3, Impact factor= 1.053, Cite Score= 1.3, SNIP=0.789, SJR=0.315, and H=85).
81. Khan M and Sherwani KIK (2023). Assessment of cardiac output during physical exercise using noninvasive technique. Aerospace Medicine and Human Performance, 94 (4): 309-310. ISSN No. 23756322, 23756314.
(Quartile Q3, Impact factor= 1.053, Cite Score= 1.3, SNIP=0.789, SJR=0.463, and H=85).
82. Khan M, and Rehan A (2020). Simultaneous assessment of blood flow in the carotid and dorsalis pedis arteries under orthostatic stress. Aerospace Medicine and Human Performance, 91 (3): 156. ISSN No. 23756322, 23756314.
(Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62).

83. Sharma BB and Khan M (2020). Wireless assessment of acoustic source perception by human subjects in the median plane. *Aerospace Medicine and Human Performance*, 91 (3): 158. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
84. Khan M, Sharma SK, Salhan AK, Tevatia T, Rao S (2019). Finger tapping test for assessment of psychomotor functions on extended stay at high altitude. *Aerospace Medicine and Human Performance* 2019; 90 (3): 187. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
85. Khan M, Sharma SK, Salhan AK (2018). Assessment of finger tapping test for human fatigue and effectiveness of glutamic acid supplementation at high altitude. *Aerospace Medicine and Human Performance* 2018; 89 (3): 201. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
86. Khan M and Sharma BB (2017). Noise measurement of cargo aircraft at staff residence of airbase. *Aerospace Medicine and Human Performance* 2017; 88 (3): 216. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=62*).
87. Khan M, Sharma BB, Ohara R, Salhan A K (2016). Assessment of Sound Source Perception of Human under Noise Induced Stress. *Aerospace Medicine and Human Performance* 2016; 87(3): 207. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
88. Sharma B B, Khan M, Vasisth S (2016). Assessment of Simulated Blood Pooling In Forearm of an Aircraft Pilot. *Aerospace Medicine and Human Performance* 2016; 87(3): 183-184. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
89. Khan M, Sondhi S, Vijay R, Sharma SK , Reynolds DB , T. Goswami T, Salhan AK. Effect of normobaric and hypobaric hypoxia on fundamental frequency of human voice. *Aerospace Medicine and Human Performance* 2015; 86 (3): 258. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
90. Khan M, Vashisth S, Vijay R, Salhan AK. Assessment of heart rate variability during simulated push-pull maneuver using tilt-table. *Aerospace Medicine and Human Performance* 2015; 86 (3): 297. ISSN No. 23756322, 23756314.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
91. Khan M, Sharma SK, Reynolds DB, Pohlman RL. Quantitative assessment of blood pooling in human lower limb due to gravity. *Aviation, Space and Environmental Medicine* March 2014; 85 (3): 33-334. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).

92. Salhan AK, Khan M, Sharma S. High voltage electro-photographic changes in humans exposed to high altitude. *Aviation, Space and Environmental Medicine* March 2014; 85 (3): 250-51. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
93. Khan M, Salhan AK, Guha SK. Biophysical model simulation study of biofeedback controller for g stress management. *Aviation, Space and Environmental Medicine* March 2012; 83(3): 292-93. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
94. Salhan AK, Khan M, Sondhi S, Vijay R. Online offline voice stress analyzer. *Aviation, Space and Environmental Medicine* March 2012; 83 (3): 309. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=52*).
95. Dd Khan M, Bansal D, Pohlman RL, Reynolds DB. Online acquisition and wireless transmission of carotid pulse wave to study push-pull maneuver. *Aviation, Space and Environmental Medicine* March 2011; 82 (3): 288. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
96. Khan M, Salhan AK, Guha SK. Design and development of a low cost anti g valve. *Aviation, Space and Environmental Medicine* March 2009; 80 (3): 313. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
97. Khan M, O'Hara RB, Reynolds DB, Pohlman RL, Guha SK. Assessment of induced blood pooling in the animal model placed in different postures using tilt-table. *Aviation, Space and Environmental Medicine* March 2009; 80 (3): 221. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
98. Khan M, O'Hara RB, Reynolds DB, Salhan AK, Pohlman RL. Assessment of gravitational blood pooling in the leg of human volunteers using non-invasive technique. *Aviation, Space and Environmental Medicine* March 2008; 79 (3): 235. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
99. Pohlman RL, Hegde VA, Haas D, Khan M. Hemodynamic Responses of Cardiac Patients to Resistance Testing. *Medicine & Sciences in Sports & Exercise* 2008; 40 (5): S181. ISSN No. 0195-9131.
(*Impact factor= 4.478, Cite Score= 4.34, SNIP=1.669, SJR=2.071, and H=216*).
100. Khan M and Salhan AK. Biofeedback controlled anti-g suit: a computer simulation. *Aviation, Space and Environmental Medicine* March 2007; 78 (3): 146. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).
101. Khan M, Urooj S, Reggie OH, Pohlman RL, and Reynolds DB. A microprocessor based system for non-invasive measurement of high-altitude pulmonary edema. *Aviation, Space and Environmental Medicine* March 2007; 78 (3): 45. ISSN No. 00956562.
(*Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50*).

102. Khan M, Reggie OH, Pohlman RL, Guha SK. Modeling to predict leg segment blood Pooling of an Aircraft Pilot Under G-Stress. Aviation, Space and Environ Medicine March 2005; 76 (3): 263. ISSN No. 00956562.
(Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50).

103. Khan M and Guha SK. Electrical Impedance Analysis for Simulated Arm Blood Pooling of an Aircraft Pilot under G-Stress. Aviation, Space and Environmental Medicine April 2003; 74 (4): 406. ISSN No. 00956562.
(Impact factor= 0.904, Cite Score= 0.69, SNIP=0.609, SJR=0.463, and H=50).

WEB OF SCIENCE AND SCOPUS BOOK CHAPTERS

104. Sherwani, K.I., Khan, M. and Rather, A.A., 2025. Indoor and home-based poststroke rehabilitation techniques—A systemic review. Artificial Intelligence in Biomedical and Modern Healthcare Informatics, pp.175-184.

105. Saba Parveen, Munna Khan, Kashif Sherwani (2024). Design of fuzzy based PID controller for effective delivery of syringe pump. In: Vibhav Sachan, Shahid Malik, Ruchita Gautam, Parvin Kumar (eds); Advances in AI for Biomedical Instrumentation, Electronics and Computing. Publisher CRC Press, 13 Jun 2024 - Technology & Engineering, pp. 362-367. ISBN: 978-1-032-64298-7.

CRC Press DOI:10.1201/978-1-032-644752-68

106. Alam, N., Khan, M., Sherwani, K.I.K. (2023). Contribution Improving Dermatoscopy in Low-Level Laser Therapy Using Convolutional Neural Networks for Enhanced Diagnosis and Treatment Planning. In: Whig, P., Silva, N., Elngar, A.A., Aneja, N., Sharma, P. (eds) Sustainable Development through Machine Learning, AI and IoT. ICSD 2023. Communications in Computer and Information Science, vol 1939. pp 25–38, Springer, Cham. Print ISBN: 978-3-031-47054-7, Online ISBN: 978-3-031-47055-4.

Springer DOI: 10.1007/978-3-031-47055-4_3

107. Sherwani KJIK, Khan M (2022). Event identification by fusing EEG and EMG signals. In: Computational Intelligence in Healthcare Applications. Edited by Rajeev Agrawal, M.A. Ansari, R.S. Anand, Sweta Sneha, Rajat Mehrotra, pp. 175-185, Copyright © 2023 Elsevier Inc, Academic Press, ISBN: 9780323990318,

Elsevier DOI : 10.1016/C2021-0-01630-8

108. Khan, M., Mahmoud, A.S.A. (2018). TS fuzzy controller of Maglev system based on relaxed stabilization conditions. H.S. Saini et al. (eds.), Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems. 7, pp. 555-563. Online ISBN: 978-981-10-3812-9, Print ISBN: 978-981-10-3811-2

Springer Nature DOI: 10.1007/978-981-10-3812-9_57

109. Urooj, S and M. Khan, and A. Q. Ansari (2013). "Thorax: Physiological Monitoring and Modeling for Diagnosis of Pulmonary Edema." In Advanced Instrument Engineering: Measurement, Calibration, and Design. Edited by Aimé Lay-Ekuakille, pp. 127-133. Hershey, PA: IGI Global, 2013. Online ISBN: 9781466641662, Print ISBN: 9781466641655. (Web of Sciences Indexed).

<http://doi:10.4018/978-1-4666-4165-5.ch009>

BOOKS/ EDITORS BOOKS/ LABORATORY MANUALS

110. Jamil M, Khan M, Siddiqui AS (Editors). Emerging trends in Electrical and Electronics Engineering. Excel India Publisher 2015; Vol. I. New Delhi, India (ISBN No. 978-93-84869-20-5).
111. Jamil M, Khan M, Siddiqui AS (Editors). Emerging trends in Electrical and Electronics Engineering. Excel India Publisher 2015; Vol. II. New Delhi, India. (ISBN No. 978-93-84869-25-0).

Web of Science and Scopus Indexed Proceedings of International Conferences

112. M. Khan, G. Gupta, Manaullah and K. I. Sherwani, "Predicting Heartbeats in Real-Time: A Continuous Monitoring Approach with Face Recognition Algorithm," 2024 11th International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 2024, pp. 399-402.
IEEE doi: 10.1109/SPIN60856.2024.10511349.
113. Iqbal MT, Sherwani KI, Khan M (2024). Design and Development of FOPID Controller for Ankle Joint Exoskeleton. 2024 Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT-2024) held during 11-12 Jan 2024 at Bhilai, India. pp. 1-6.
IEEE doi: 10.1109/ICAECT60202.2024.10468730.
114. Ali MA, Khan M, Sherwani KI (2023). Early Skin Cancer Detection Using Deep Learning," 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), Bangalore, India, 29-31 Dec. 2023, pp. 1-6.
IEEE doi: 10.1109/SMARTGENCON60755.2023.10442168.
115. Kumari L, Khan M, Sani MM, Zahreeuddin Z, Khan MA (2023). A Novel Design of Slotted Patch Antenna for WBAN Applications. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India, pp. 236-239.
IEEE doi: 10.1109/REEDCON57544.2023.10150573.
116. Khan MA, Khan M, Kumari L, Sani MM. (2023). Design and Analysis of L-Shape Circular Patch MIMO Antenna For Biomedical Applications. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India. pp. 514-517.
IEEE doi: 10.1109/REEDCON57544.2023.10151090.
117. Gupta G, Khan M, Sherwani KI, Manaullah (2023). Overview of the effect of physiological stress on different biological signals. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India, 2023, pp. 251-255.
IEEE doi: 10.1109/REEDCON57544.2023.10150828.

118. Suri A, Jabin S, Khan M, Sherwani KI, Sardar M and Khan MM (2023). Mental Task Classification using Machine Learning. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India, pp. 222-225.
IEEE doi: 10.1109/REEDCON57544.2023.10150533.
119. Suri A, Jabin S, Khan M, Sherwani KI, Sardar M and Khan MM (2023). Recent trends and Indications in the field of Motor Imagery: a Brain-computer interface paradigm. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India, pp. 174-179.
IEEE doi: 10.1109/REEDCON57544.2023.10150687.
120. Brajesh K, Pal K, Khan M (2023). Study of Different Body Parameters for Health Monitoring. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India, pp. 524-529.
IEEE doi: 10.1109/REEDCON57544.2023.10150950.
121. Khan SA, Afzal AB, Khan MH, Khan YU, Sarfraz M, Khan M (2023). Automatic Detection of Cardiac Arrhythmia Using Deep Transfer Learning based Approach on ECG. 2023 International Conference on Recent Advances in Electrical, Electronics & Digital Healthcare Technologies (REEDCON-2023), New Delhi, India, pp. 666-671.
IEEE doi: 10.1109/REEDCON57544.2023.10150663.
122. Verma M and Khan M (2023). Ultra-Wide Band Radar System Assembly across the Obstacle for Human Vital Signs Detection. 2023 International Conference on Power, Instrumentation, Energy, and Control (PIECON-2023), Aligarh, India, pp: 1-4. 10-12 Feb 2023
IEEE DOI: 10.1109/PIECON56912.2023.10085820.
123. Khan M, Akbari S and Sherwani KIK (2023). Reduction of Bit Error Rate (BER) and Mean Square Error (MSE) in MIMO-OFDM System Using SUI and ETU Channels. 2023 International Conference on Power, Instrumentation, Energy and Control (PIECON-2023), Aligarh, India, pp.1-6. 10-12 Feb 2023.
IEEE DOI: 10.1109/PIECON56912.2023.10085723.
124. Khan M, Zaheeruddin, Kumari L, Salhan AK and Sani MM (2023). Design and Simulation of Stair Shape Planar Antenna Using Vias Technique for Biomedical Applications. International Conference on Power, Instrumentation, Energy and Control (PIECON), Aligarh, India, 2023, pp. 1 New Delhi, India. pp. 1-4. 10-12 Feb 2023
IEEE DOI: 10.1109/PIECON56912.2023.10085855.
125. Sharma BB and Khan M (2019). Wireless Assessment of Acoustic source perception in Noisy Environment. International Conference on Advancements in Computing & Management; 12-14 April 2019 at Jagannath University, Jaipur, Rajasthan, India. PP. 88-91
ELSEVIER doi.org/10.2139/ssrn.3446637
126. Sharma, B.B., Khan, M. (2019). Impact of Noise on Inclusive Performance of Learner in An Educational Institute. International Conference on Power Electronics, Control and Automation, ICPECA 2019 at JMI New Delhi, India. pp. 1-4. 16-17 Nov 2019.

127. Reza MQ, Khan M, Shaila PSMA Sirdeshmukh, Salhan AK (2019). Classification of different materials using their acoustic signals. International Conference on Power Electronics, Control and Automation, ICPECA 2019 at JMI New Delhi, India. pp. 1-4. 16-17 Nov 2019.
IEEE DOI:10.1109/ICPECA47973.2019.8975407
128. Khan MT, Khan M, Hasan M (2019). Carbon nanotube FET based power shaping circuit used in Biomedical Applications. International Conference on Power Electronics, Control and Automation, ICPECA 2019 at JMI New Delhi, India. pp. 1-5. 16-17 Nov 2019.
IEEE DOI: 10.1109/ICPECA4 7973.2019.8975441
129. Khan, M., Reza, M.Q., Sirdeshmukh, S.P.S.M.A. (2018). A prototype model development for classification of material using acoustic resonance spectroscopy. IMPACT 2017 - International Conference on Multimedia, Signal Processing and Communication Technologies. pp. 128-131, 24-26 Nov 2017.
IEEE DOI: 10.1109/MSPCT.2017.8363989
130. Khan, M., Sirdeshmukh, S.P.S.M.A. Reza, M.Q. (2018). Optimal selection of PEMF signal for wound healing system. IMPACT 2017 - International Conference on Multimedia, Signal Processing and Communication Technologies. pp. 185-188, 24-26 Nov 2017.
IEEE DOI: 10.1109/MSPCT.2017.8364001
131. Mahmoud, A.S.A., Khan, M. (2018). Development of new robust control algorithm for helicopter altitude. IMPACT 2017 - International Conference on Multimedia, Signal Processing and Communication Technologies. pp. 104-108, 24-26 Nov 2017.
IEEE DOI: 10.1109/MSPCT.2017.8363984
132. Mahmoud ASA and Khan M. (2017). Robust TS fuzzy controller for helicopter via parallel distributed compensation. 3rd International Conference on Computational Intelligence & Communication Technology (CICT). pp. 1-5, 9-10 Feb 2017.
IEEE DOI: 10.1109/CICT.2017.7977308
133. Sondhi, S., Vijay, R., Khan, M., Salhan, A.K. (2017). Voice analysis for detection of deception. Proceedings - 11th 2016 International Conference on Knowledge, Information and Creativity Support Systems, KICSS 2016.
IEEE DOI: 10.1109/KICSS.2016.7951455
134. Jahan, M., Khan, M. (2016). Sub-vocal phoneme-based EMG pattern recognition and its application in diagnosis. 12th IEEE International Conference Electronics, Energy, Environment, Communication, Computer, Control: (E3-C3), INDICON 2015, pp. 1-4.
IEEE DOI: 10.1109/INDICON.2015.7443564
135. Mahmoud, A.S.A., Khan, M., Siddique, A.S. (2016). Discrete-time control of Maglev system using switched fuzzy controller. 12th IEEE International Conference Electronics, Energy, Environment, Communication, Computer, Control: (E3-C3), INDICON 2015, pp. 1-6.

136. Sharma, B.B., Khan, M. (2016). Acoustic source implementation for analysis of sound perception in noisy condition. 12th IEEE International Conference Electronics, Energy, Environment, Communication, Computer, Control: (E3-C3), INDICON 2015, pp. 1-4.
IEEE DOI: 10.1109/INDICON.2015.7443430
137. Sherwani, K.I.K., Khan, M., Kumar, N.D. (2016). Assessment of postural stability using centre of Pressure and knee progression during dynamic gait. 12th IEEE International Conference Electronics, Energy, Environment, Communication, Computer, Control: (E3-C3), INDICON 2015, pp. 1-4.
IEEE DOI: 10.1109/INDICON.2015.7443634
138. Khan, M.T., Khan, M., Hasan, M. (2016). High frequency low voltage 32nm node CMOS rectifier for energy harvesting in implantable devices. 12th IEEE International Conference Electronics, Energy, Environment, Communication, Computer, Control: (E3-C3), INDICON 2015, pp. 1-4.
IEEE DOI: 10.1109/INDICON.2015.7443179
139. Khan, M., Singh, A.K., Iqbal, S.S., Sharma, B.B. (2015). A novel SPICE implementation of MPPT technique for implantable solar powered cardiac biosensors. 9th International Conference on Industrial and Information Systems, ICIIS 2014, pp. 179-183.
IEEE DOI: 10.1109/ICIINFS.2014.7036487
140. Khan, M., Singh, A.K., Sharma, B.B. (2014). Solar powered automated external defibrillators in remote areas: A computer simulation. 2014 International Conference on Medical Imaging, m-Health and Emerging Communication Systems, MedCom 2014, pp. 179-183
IEEE DOI: 10.1109/MedCom.2014.7005999
141. Khan, M., Singh, A.K. (2013). Modeling and simulation of solar boost converter to supply power for cardiac pacemakers. MeMeA 2013 - IEEE International Symposium on Medical Measurements and Applications, Proceedings pp. 187-190
IEEE DOI: 10.1109/MeMeA.2013.6549733
142. Vashisth, S., Khan, M., Vijay, R., Salhan, A.K., Sondhi, S. (2011). Real time acquisition, processing and analysis of human carotid pulse waveforms using MATLAB. 2011 Nirma University International Conference on Engineering: Current Trends in Technology, NUiCONE 2011 - Conference Proceedings.
IEEE DOI: 10.1109/NUiConE.2011.6153316
143. Urooj, S., Lay-Ekuakille, A., Ansari, A.Q., Khan, M., Vergallo, P., Trotta, A. (2011). Volumetric estimation of thorax with cylindrical model and anthropometric measurements. MeMeA 2011-2011 IEEE International Symposium on Medical Measurements and Applications, Proceedings pp. 213-216.
IEEE DOI: 10.1109/MeMeA.2011.5966701

144. Urooj, S., Khan, M. (2010). A computer based prediction for diagnosis of pulmonary edema. 2010 IEEE International Workshop on Medical Measurements and Applications, MeMeA 2010 – Proceedings pp. 28-31.
IEEE DOI: 10.1109/MEMEA.2010.5480229
145. Bansal, D., Khan, M., Salhan, A.K. (2010). Wireless transmission of EMG signal and analysis of its correlation with simultaneously acquired carotid pulse wave using dual channel system. 2nd International Conference on eHealth, Telemedicine, and Social Medicine, eTELEMED 2010, Includes MLMB 2010; BUSMMed 2010 pp. 125-129
IEEE DOI: 10.1109/eTELEMED.2010.24
146. Bansal, D., Khan, M., Salhan, A.K. (2009). A review of measurement and analysis of heart rate variability. Proceedings - 2009 International Conference on Computer and Automation Engineering, ICCAE 2009, pp. 243-246
IEEE DOI: 10.1109/ICCAE.2009.70
147. Bansal D, Khan M, Goel D, Salhan AK (2008). Statistical Analysis of Human Physiological Parameter using Six Sigma Techniques. Proceeding of International conference “World Congress on Engineering 2008 July 2-4:100-101. United Kingdom.
http://www.iaeng.org/publication/WCE2008/WCE2008_pp1100-1104.pdf
148. Goswami P.N., Munna K., Moinuddin (2007). Bioelectrical Impedance Analysis: Phase Angle - An Independent Predictive Health Marker and its Clinical Applications. In: Ibrahim F., Osman N.A.A., Usman J., Kadri N.A. (eds) 3rd Kuala Lumpur International Conference on Biomedical Engineering 2006. IFMBE Proceedings, vol 15. Springer, Berlin, Heidelberg. Online ISBN: 978-3-540-68017-8, Print ISBN: 978-3-540-68016-1.
https://doi.org/10.1007/978-3-540-68017-8_82
149. Khan, M., Ibraheem. (2003). Prediction and measurement of electrical impedance for human leg segment. IFAC Proceedings Volumes (IFAC-Papers Online) 36(15), pp. 191-194
Science Direct Elsevier DOI: 10.1016/S1474-6670(17)33498-5
150. Khan MR, Manchanda SC, Mustajab P, Khan, M. (1995). Design and development of microprocessor based quantitative impedance system for pulmonary edema. Proceedings of the First Regional Conference, IEEE Engineering in Medicine and Biology Society and 14th Conference of the Biomedical Engineering Society of India. An International Meet.
IEEE DOI: 10.1109/RCEMBS.1995.508666

Other Indexed Proceedings International/ National Conferences

151. Sharma BB and Khan M (2016). Electronic prototype model for generation of variable acoustic effects. Proceedings of International Conference on “Advances in Nanomaterials and Nanotechnology” 4-5 Nov. 2016 at JMI New Delhi, India.
152. Jahan M and Khan M (2016). Design of EMG circuit for sub-auditory speech signal acquisition and device control applications. Proceedings of International Conference on “Advances in Nanomaterials and Nanotechnology” 4-5 Nov. 2016 at JMI New Delhi, India.

153. Sharma BB and Khan M. Graphical user interface based simulation model for acoustic effect generation. Proceeding of National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2015); 2015 Feb 02-03; V1: 40-45.
154. Khan MT, Khan M, Hasan M. Low voltage CMOS Rectifier at 32 nm for harvesting energy in implantable devices. Proceeding of National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2015); 2015 Feb 02-03; V1: 164-68.
155. Jahan M, Khan M, Sharma SK, Salhan AK. Feature extraction of EMG based sub-auditory vocal signals for rehabilitative applications. Proceeding of National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2015); 2015 Feb 02-03; V2: 38-43.
156. Sherwani KIK, Khan M, Kumar N. Feature Vector Optimization of EMG signal during GAIT. Proceeding of National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2015); 2015 Feb 02-03; V2: 93-99.
157. Khan M, Zaheeruddin, Singh AK (2012). A Simulink model of DC-DC boost converter for implantable cardiac pacemakers. Proceeding-International Conference on Biomedical Engineering & Assistive Technologies (BEAT) 2012; held during Dec. 4-6, 2012 at (NIT) Jalandhar; Paper ID- 279.
158. Savita S, Khan M, Retu V, Salhan AK, Vashisth S (2012). Real time speech analysis for detection of stress using Autocorrelation function. Proceedings of International Conference on IT & T held during March 29-30 2012, at Ireland, pp. 38-44.
http://ittconference.ie/uploads/conference/2012/ITT2012_proceedings.pdf
159. Singh AK, Khan M, Zaheeruddin. A Simulation of solar cell based power supply to charge battery of cardiac pacemakers. Proceeding of National Conference on Solar Power: The most promising solution to future energy crises; held during March 29-30, 2012 at Government Engineering College, Bharatpur, Rajasthan.
160. Urooj S, Khan M, Ansari AQ. A Computational Study Using Electrical Impedance and Anthropometric Parameters. In proceeding of National Conference on Power, Instrumentation, Energy, and Control (π con-2011) held during Feb 12-13, 2011 at AMU Aligarh.
161. Bansal D, Khan M, Salhan AK (2011). Digital Signal Controller DM 330011 Based Real Time System for Detection of ECG Signal. Proceedings of 2nd International Conference on Computational and Mathematical Biomedical Engineering held during Mar 31- April 01, 2011 at Washington D.C, USA. pp. 451-454.
<https://www.compbimed.net/2011/cmbe-proceedings.htm>
162. Bansal D, Khan M, Salhan AK (2010). A Virtual Instrument for Bio-Signal Acquisition and Processing using LAB VIEW: Paper ID- 189. Proceeding-International Conference on BEAT-2010, held during Dec. 17-19, 2010 at NIT, Jalandhar Paper ID- 189.
163. Urooj S, Khan M, Ansari AQ, Salhan AK, Eukakille AL. (2010). A diagnosis Technique for Clinical Pulmonology: Paper ID- 383. Proceeding-International Conference on BEATS-2010 Paper ID- 383 held during Dec. 17-19, 2010 at NIT Jalandhar.

164. Urooj S and Khan M. Transthoracic electrical Impedance Measurement: A Physical and Physiological Approach to Pulmonary Edema Diagnosis. Proceeding of national conference on Advances in VLSI, Embedded & Communication; pp. 13-16, 10 Aug 2010; AFSET, Faridabad, India.
165. Bansal D, Khan M, Salhan AK (2008). Simulation of various fifty hertz notch filters for ECG devices. Proceeding of International Conference on Digital Factory 2008 Aug 11-13: CIT Combatore, India.
166. Bansal D, Khan M, Salhan AK (2008). Real time acquisition and subsequent analysis of posture related changes in carotid pulse wave form using piezoelectric sensor. Proceedings of 32nd Nation system conference Dec 17-19: 297-300, Indian Institute of Technology Roorkee, India.
167. Bansal D, Khan M, Salhan AK. Display of real time repetitive ECG wave on a cathode ray oscilloscope. Proceeding of National conference on control and instrumentation; 2007 Dec 29-30; III: 28-30, National Institute of Technology, Kurukshetra, India.
168. Bansal D, Kumar R, Himani, Khan M, Salhan AK. PC to PC Data Transfer via Rs-232 Interface over Satellite using MATLAB. Proceedings of International Conference on Trends in Intelligent Electronic Systems 2007 Nov 12-14; 29-31, Chennai, India.
169. Goswami PN, Khan M, Moinuddin. Bioelectrical impedance analysis for human body composition and its clinical applications. Proceeding of national conference on Biomedical Engineering; 2006 March 28-29; 190-94, SP Institute of Technology, Mumbai, India.
170. Khan M and Yasmin S. Finite element analysis to predict electrical impedance of human arm segment. Proceeding of National Conference on AME-2006 Jan. 20-21: 929-33.
171. Kaushik V, Khan M, Khan MR. Design and development of multi-purpose two-way valve using stepper motor. Supplementary proceeding of National Conference AME-2006 Jan. 20-21: 156-58.
172. Khan M and Grover R. Microprocessor based pollution monitoring system. Proceeding of International Conference on Energy and environment- Strategies for sustainable development, India 2004 Jan. 23-24: 462-65. Presented at JMI (Central University), New Delhi, India.
173. Khan M and Guha SK. Noninvasive assessment of blood accumulation in the human leg segment. Proceeding of International Conference on Biomedical Engineering; 2001 Jan 24-26; 100-103.
174. Khan M. Noninvasive measurements of volumetric changes for lower arm segment. Proceeding of national conference on Biomedical Engineering; 2000 Apr 21-22; 336-45, IIT Roorkee, India.
175. Khan M and Guha SK. Correlation between electrical impedance and blood accumulation for upper limb. Proceeding of National Symposium & Exposition on Modern Instrumentation-challenges & visions; 1999 Feb 27-28; 35-39, AMU Aligarh, India.

REFEREED SHORT PAPERS IN THE INTERNATIONAL/ NATIONAL CONFERENCES

INTERNATIONAL ANNUAL SCIENTIFIC MEETINGS/ CONFERENCES

176. Khan M and Sherwani KIK. Assessment of cardiac output during physical exercise using noninvasive technique. Souvenir of 93rd Annual Scientific Meeting of Aerospace Medical Association held during May 21-23, 2023 at Hotel Sheraton, New Orleans, LA, USA, pp. 309-310.
177. Khan M, Reza MQ, Shaila P.S.M.A. Sirdeshmukh. Pulsed Electromagnetic Fields for Wound Healing. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 267.
178. Tevatia T, Khan M, Kumar A. Assessment of human fatigue using finger tapping test. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 269.
179. Pawar C, Khan M, Saini JP. Bioelectrical Impedance Measuring Device Based on Principle of Multi frequency and Multi Segments. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020, at JMI New Delhi, India, pp. 268.
180. Faisal M, Khan M. Use of Bio Physical Methods Based on PEMF to improve Healing in Dentistry- a Pilot Study. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 270.
181. Rungta S, Ahmed SA, Khan M. Therapeutic use of Ultrasound in Oral and Maxillofacial region. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 271.
182. Yasmeen S, Ahmed SA, Khan M. Clinical Efficacy of Low Level Laser Therapy in Temporomandibular Disorders. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 272.
183. Singh G, Biswas S, Pal A, Ghosh N, Choudhury P, Chaudhury K, Khan M. Electrochemical sensing of IL-4: a potential biomarker for Asthma-COPD Overlap (ACO). Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 274.
184. Kaur G, Khan M, Siddiqui AS. The Role of Big Data Analytics in Improving Healthcare Systems. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 275.
185. Ridhima, Sherwani K, Khera P, Vibhuti, Kumar N, Khan M. Contactless Evaluation of Knee Joint during Treadmill Walking. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 277.
186. Brajesh KM, Pal K, Khan M. Assessment of Human Joints Using Bioelectrical Impedance Technique. Souvenir of JTA Multidisciplinary International Conference held during Feb16-18, 2020 at JMI New Delhi, India, pp. 278.

187. Khan M, Sharma SK , Salhan AK, Tevatia T, Rao S. Finger tapping test for assessment of psychomotor functions on extended stay at high altitude. 89th Annual Scientific Meeting of Aerospace Medical Association held during May 05-9, 2019 at Hotel All Rio suites, Las Vegas, NV, USA, pp. 187.
188. Khan M, Sharma SK, Salhan AK. Assessment of finger tapping test for human fatigue and effectiveness of glutamic acid supplementation at high altitude. 88th Annual Scientific Meeting of Aerospace Medical Association held during May 06-10, 2018 at Hilton Anatole Hotel, Dallas, TX, USA, pp. 201.
189. B.B. Sharma and Khan M. Noise measurement of cargo aircraft at staff residence of airbase. 87th Annual Scientific Meeting of Aerospace Medical Association held during April 30- May 04, 2017 at Sheraton Denver Hotel, CO, USA, pp. 216.
190. Khan M, Sondhi S, Salhan AK. Reflection of physical exhaustion in human voice. 64th International Congress of Aviation and Space Medicine held during Nov 06-10, 2016 at New Delhi, INDIA, pp. 39-40.
191. Khan M and Sharma BB. Effect of Noise on Human acoustic perception. 64th International Congress of Aviation and Space Medicine held during Nov 06-10, 2016 at New Delhi, INDIA, pp. 100.
192. Khan M, Sharma BB. Acoustic source perception of human under Noise: A comparative Assessment. 47th Mid Term Symposium IETE Conference MICTDI CSIO Chandigarh 2016, pp. 35.
193. Mahmoud ASA, Khan M, Siddique AS. Robust H_{∞} Control Synthesize For Discrete-Time TS Fuzzy Model. 47th Mid Term Symposium IETE Conference MICTDI CSIO Chandigarh 2016, pp. 34.
194. Khan M, Jahan M. Sub-vocal speech pattern recognition of HINDI alphabet with surface EMG. International conference on recent trend in Engg and material sciences (ICEMS-2016), March 17-19, 2016, pp. 290.
195. Khan M, Ali Shaila, Javed K. Evaluation of bone fracture in animal model using bio-electrical impedance. International conference on recent trend in Engg and material sciences (ICEMS-2016), March 17-19, 2016, pp. 301.
196. Khan M, Sharma B B, Javed K. Pervasive approach to acoustic source perception in horizontal plane. International conference on recent trend in Engg and material sciences (ICEMS-2016), March 17-19 2016, pp. 310.
197. Javed K, Khan M, Sharma BB. Assessment of cranial Blood Volume changes using Non-Invasive (BIA) Technique. International conference on recent trend in Engineering and material sciences (ICEMS-2016), March 17-19 2016, pp. 314.
198. Khan M, Sondhi S, Vijay R, Sharma SK , Reynolds DB , T. Goswami T, Salhan AK. Effect of normobaric and hypobaric hypoxia on fundamental frequency of human voice. 85th Annual

Scientific Meeting of Aerospace Medical Association held during May 10-14: at Lake Buena Vista, Orlando, FL, USA, pp. 82.

199. Khan M, Salhan AK, Guha SK. Design and development of biofeedback controller. Souvenir of 83rd Annual Scientific Meeting of Aerospace Medical Association; 2012, May 13-17 presented at Atlanta, USA, pp. 82.
200. Khan M, Bansal D, Pohlman RL, Reynolds DB. Online acquisition and wireless transmission of carotid pulse wave to study push-pull maneuver. Souvenir of 82nd Annual Scientific Meeting of Aerospace Medical Association; 2011 May 8-12: 313. Presented at Anchorage, AK, USA.
201. Bansal D, Khan M, Salhan AK. Digital Signal Controller DM 330011 Based Real Time System for Detection of ECG Signal. 2nd International Conference on Computational and Mathematical Biomedical Engineering (CMBE11), Mar 31st to Apr 1st, 2011, Washington D.C, USA.
202. Khan M, Salhan AK, Guha SK. Design and development of a low cost anti g valve. Souvenir of 80th Annual Scientific Meeting of Aerospace Medical Association; 2009 May 3-7: 313. Presented at Los Angeles, CA, USA.
203. Bansal D, Salhan AK, Khan M. An ECG monitoring system having simple interface with computer capable of real-time data transfer. Souvenir of Annual Fall Meeting of Biomedical Engineering Society 2007 Sept. 26-29: P1.7. Presented Los Angeles, California, USA.
204. Khan M and Salhan AK. Biofeedback controlled anti-g suit: a computer simulation. Souvenir of 78th Annual Scientific Meeting of Aerospace Medical Association; 2007 May 13-17: 146. Presented at New Orleans, LA, USA.
205. Khan M, Pohlman RL, Ohara RB. Bioelectrical impedance analysis to measure blood volume changes in lower body segments during high-G in human centrifuge. Souvenir of 54th ICASM; 2006 Sept. 10-14: 106. Presented at Bangalore, India.
206. Khan M, Yasmin S, Kumar A, Gupta MK, Singh U, Khan MR. Design and development of PLC (Programmable Logic Controller) based anti-G suit. Souvenir of 54th ICASM; 2006 Sept. 10-14: 57. Presented at JN TATA Auditorium, Bangalore, India.
207. Khan M, Ohara RB, Pohlman RL and Guha SK. Modeling to predict simulated leg-segment blood pooling of an aircraft pilot under G-Stress. Souvenir of 76th Annual Scientific Meeting of Aerospace Medical Association; 2005 May 8-12: 263. Presented at Kansas City, Missouri, USA.
208. Khan M and Guha SK. Electrical Impedance Analysis for Simulated Arm Blood Pooling of an Aircraft Pilot under G-Stress. Souvenir of 74th Annual Scientific Meeting of Aerospace Medical Association; 2003 May 4-8: 90. Presented at San Antonio, TX, USA.
209. Khan M, Salhan A, Guha SK. Computer simulation to optimize the performance of an anti-g suit. Souvenir of 51st ICASM; 2003 Oct. 5-9: 65, Madrid, Spain.

210. Khan M and Guha SK. Electrical impedance analysis for simulated leg segment of aircraft pilot under G stress. Souvenir of 48th International Congress on Aviation and Space Medicine; 2000 Sept. 17-21: 31. Presented at Rio de Janeiro, Brazil, Latin America.

NATIONAL CONFERENCES

211. Khan M and Sherwani KIK. Phase angle from bioelectrical impedance analysis correlates with gravitational blood pooling. 62nd Annual conference of Indian Society of Aerospace Medicine held during Nov. 23-25, 2023, at Institute of Aerospace Medicine, Bangalore, INDIA, pp. 48-49.
212. Khan M, Sherwani KIK, Sharma SK, Salhan AK. Application of piezoelectric sensor to record orthostatic changes in carotid and dorsalis pedis artery on tilt table. 60th Annual conference of Indian Society of Aerospace Medicine held during Nov. 25-27, 2021, at Institute of Aerospace Medicine, Bangalore, INDIA, pp. 80-81.
213. Brajesh KM, Pal K, Khan M (2020). Analysis of bioelectrical impedance measurements and Role of mathematical modeling in bone fracture healing. Souvenir of National Conference on the theme 'Robotics and Mechatronics'- held during March 3-4, 2020 at JMI University, New Delhi, pp. 31.
214. Kaur G, Khan M, Siddiqui AS (2020). Biomedical big data analytics for precision medicine: significance and associated challenges. Souvenir of National Conference on the theme 'Robotics and Mechatronics'- held during March 3-4, 2020 at JMI University, New Delhi, pp. 33.
215. Pawar C and Khan M (2020). A novel method for measuring segmental bioelectrical impedance of human joints at multi-frequency. Souvenir of National Conference on the theme 'Robotics and Mechatronics'- held during March 3-4, 2020 at JMI University, New Delhi, pp. 29.
216. Khan M, Sharma SK, Salhan AK (2019). Assessment of Carotid Artery Blood Flow using Piezoelectric Sensor during Gravity Induced Orthostatic Stress. 58th Annual conference of Indian Society of Aerospace Medicine held during Nov. 14-16, 2019, at Institute of Aerospace Medicine, Bangalore, INDIA.
217. Khan M, Sharma SK, Salhan AK (2018). Assessment of human psychomotor function at high altitude using finger tapping test. 57th Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-16, 2018, page 21, at Institute of Aerospace Medicine, Bangalore, INDIA, pp. 21.
218. Khan M and Sharma BB (2017). Noise measurement of fighter aircraft close to airbase of India. 56th Annual conference of Indian Society of Aerospace Medicine held during August 24-27, 2017 at Institute of Aerospace Medicine, Bangalore, INDIA, pp. 58.
219. Khan M. Real time detection of carotid pulse during simulated push-pull maneuver and wireless transmission. Souvenir of 55th Annual conference of Indian Society of Aerospace Medicine; 2015 Aug 28-30: 23, Institute of Aerospace Medicine, Bangalore, India.
220. Vashisth S, Khan M, Vijay R, Salhan AK. Carotid Artery blood flow response to G-stress: computer simulation. Souvenir of 55th Annual conference of Indian Society of Aerospace Medicine; 2015 Aug 28-30: 57, Institute of Aerospace Medicine, Bangalore, India.

221. Khan M and Sharma BB. Design and Development of Prototype Model for Generation of Variable Frequency Sound. National Symposium on Instrumentation; Oct 15-17, 2014: (CD), Gurukul Kangri University, Haridwar, UK.
222. Khan M, Sondhi S, Vijay R, Sharma SK, Salhan AK. Physiological correlates of stress in human voice at different altitudes during hypoxia. Souvenir of 54th Annual conference of Indian Society of Aerospace Medicine; 2014 Aug 22-24: 44, Institute of Aerospace Medicine, Bangalore, India.
223. Khan M and Salhan AK. Non-invasive Measurement of Blood Volume Changes due to Gravity in the Human Limb. Souvenir of 53rd Annual conference of Indian Society of Aerospace Medicine; 2013 Aug 9-11: 45, Institute of Aerospace Medicine, Bangalore, India.
224. Khan M, Vashisth S, Vijay R, Salhan AK. Real time wireless acquisition of human carotid pulse waveforms. Souvenir of 51st Annual conference of Indian Society of Aerospace Medicine; 2011 Nov 18-20: 39, Institute of Aerospace Medicine, Bangalore, India.
225. Khan M, Vashisth S, Salhan AK, Sondhi S. Bio-impedance assessment of gravimetric volume changes in the human lower limb. Souvenir of 49th ISAM Conf.; 2009 Nov. 13-15: 28, Subroto Park, IAF, New Delhi, India.
226. Khan M, Salhan AK, Guha SK, Singh AK, Zaheeruddin. Non-invasive measurements of blood pooling in the leg segment of monkey. Souvenir of 48th Annual conference of Indian Society of Aerospace Medicine; 2008 Dec 1-3: 47, Institute of Aerospace Medicine, Bangalore, India.
227. Jindal K, Khan M, Salhan AK. Computer based assessment of physiological hand tremor. Souvenir of national conference on Emerging trends in industrial automation; 2008 Sept 27: 20, Apeejay College of Engineering, Sohna, India.
228. Goswami PN, Khan M, Moinuddin. Overview of human body composition methods and future directions of research using BIA. Souvenir of International conference on Interdisciplinary Approach in Physical Sciences; 2005 Dec.28—31: 36, CCS University, Meerut, India.
229. Khan M, Pohlman RL, Ohara RB, Reynolds DB, Guha SK. Applications of bioelectrical impedance analysis (BIA) in aerospace medicine. Souvenir of 46th ISAM Conf.; 2005 Sept. 14-16: 41.
230. Khan M and Narang R. A microcomputer for early detection of high altitude pulmonary edema. Souvenir of 45th Annual conference of Indian Society of Aerospace Medicine; 2004 Nov. 17-19: 67.
231. Khan, M, Salhan, A, and Guha SK. Computer design of biofeedback controller for an Anti G-suit. Souvenir of 44th ISAM Conf.; 2003 Nov. 20-22: 73, IAM, India.
232. Khan M. Measurement of peripheral blood flow improves health care in the society. Souvenir of Male health and annual conference of the society of Andrology, India; 2003 Dec. 13-15: 14.
233. Khan M, and Salhan A. Effects of G-stress on induced blood pooling in the leg segment of monkey. Souvenir of symposium on MST for population welfare; 2003 Oct. 27-29: 37, IIT Kharagpur, India.

234. Khan M. Electrical impedance analysis for blood accumulation in the leg segment of human body. Souvenir of symposium on MST for population welfare; 2003 Oct. 27-29: 36, IIT Kharagpur, India.
235. Tiwari V.N., Khan M., Narang R, Chaudhury K. Predictive monitoring of cardiovascular risk factors using non-invasive and cost-effective techniques. Souvenir of symposium on MST for population welfare; 2003 Oct. 27-29: 35, Indian Institute of Technology, Kharagpur, India.
236. Khan M and Guha SK. Electrical impedance analysis to study the arm pain of an aircraft pilot during high G maneuvers. Souvenir of 43rd ISAM Conf.; 2002 Nov. 27-29: 18, Subroto Park, IAF, New Delhi, India.
237. Khan M and Guha SK. Prediction of Blood Pooling in the Leg Segment of Aircraft Pilot during High G-Maneuvers. Souvenir of Golden Jubilee Conference of Indian Society of Aerospace Medicine; 2002 Feb.5-8:66. Presented at Institute of Aerospace Medicine, Bangalore, India.
238. Khan M and Guha SK. Study of Female Fertility Using Electrical Impedance Plethysmography. Souvenir of Symposium on Technology in Family Welfare; 2001 Dec. 8-10: 52. Presented at IIT Delhi, India.
239. Khan M and Guha SK. Electrical impedance analysis for simulated arm segment of aircraft pilot under G stress. 42nd ISAM Conference; 2000 Nov. 23-25. Presented at Institute of Aerospace Medicine, Bangalore, India.

PARTICIPATIONS IN THE AEROSPACE CONFERENCES

INTERNATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

1. 95th Annual Scientific Meeting of Aerospace Medical Association held during June 1-6, 2025 at Sheraton New Orleans, New Orleans, LA, USA.
2. 93rd Annual Scientific Meeting of Aerospace Medical Association held during May 21-25, 2023 at Sheraton New Orleans, New Orleans, LA, USA.
3. 90th Annual Scientific Meeting of Aerospace Medical Association held during May 05-9, 2019 at All Rio suites hotel, Las Vegas, NV, USA.
4. 89th Annual Scientific Meeting of Aerospace Medical Association held during May 06-10, 2018 at Hilton Anatole Hotel, Dallas, TX, USA.
5. 88th Annual Scientific Meeting of Aerospace Medical Association held during April 30-May 04, 2017 at Sheraton Hotel, Denver. CO, FL, USA.
6. 64th International Congress of Aviation and Space Medicine held during Nov 06-10, 2016 at Pullman Hotel, New Delhi, India.
7. 86th Annual Scientific Meeting of Aerospace Medical Association held during May 10-14, 2015 at Lake Buena Vista, Orlando, FL, USA.
8. 83rd Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2012 at Atlanta, GA, USA.

9. 82nd Annual Scientific Meeting of Aerospace Medical Association held during May 8-12, 2011 at D. Convention Centre, Anchorage, AK, USA.
10. 80th Annual Scientific Meeting of Aerospace Medical Association held during May 3-7, 2009 at Westin Bonaventure Hotel, Los Angeles, CA, USA.
11. 78th Annual Scientific Meeting of Aerospace Medical Association held during May 13-17, 2007 at Sheraton Hotel, New Orleans, LA, USA.
12. 54th International Congress of Aviation and Space Medicine held during sept. 10-14, 2006 at JN TATA Auditorium, Bangalore, India.
13. 76th Annual Scientific Meeting of Aerospace Medical Association on “Charting the course for the future” held during May 8-12, 2005 at Kansas City, Missouri, USA.
14. 74th Annual Scientific Meeting of Aerospace Medical Association on “100 years of flight and aerospace medicine support” held during May 4-9, 2003 at San Antonio, Texas, USA.
15. 48th International Congress on Aviation and Space Medicine held during September 10-14, 2000 at Rio de Janeiro, Brazil.

NATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

16. 58th Annual conference of Indian Society of Aerospace Medicine held during Nov. 14-16, 2019 at Institute of Aerospace Medicine, Bangalore, India.
17. 57th Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-16, 2018 at Institute of Aerospace Medicine, Bangalore, India.
18. 56th Annual conference of Indian Society of Aerospace Medicine held during Aug. 24-27, 2017 at Institute of Aerospace Medicine, Bangalore, India.
19. 55th Annual conference of Indian Society of Aerospace Medicine held during Aug. 28-30, 2015 at Institute of Aerospace Medicine, Bangalore, India.
20. 54th Annual conference of Indian Society of Aerospace Medicine held during Aug. 22-24, 2014 at Institute of Aerospace Medicine, Bangalore, India.
21. 51st Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-17, 2011 at Institute of Aerospace Medicine, Bangalore, India.
22. 49th Annual conference of Indian Society of Aerospace Medicine held during Nov. 13-15, 2009 at Subroto Air Force Park, New Delhi, India.
23. 46th Annual conference of Indian Society of Aerospace Medicine held during Sept. 14-16, 2005 at Institute of Aerospace Medicine, Bangalore, India.
24. 44th Annual conference of Indian Society of Aerospace Medicine held during Nov. 20-22, 2003 at Institute of Aerospace Medicine, Bangalore, India.
25. 43rd Annual conference of Indian Society of Aerospace Medicine held during Nov. 27-29, 2002 at Subroto Air Force Park, New Delhi, India.
26. Golden Jubilee Conference of Indian Society of Aerospace Medicine held during Feb. 5-8, 2002 at Institute of Aerospace Medicine, Bangalore, India.
27. Millennium Conference of Indian Society of Aerospace Medicine held during Nov. 23-25, 2000 at Institute of Aerospace Medicine, Bangalore, India.

PARTICIPATIONS IN THE BIOMEDICAL ENGINEERING CONFERENCES

INTERNATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

28. One day seminar held during Ohio Orthopaedic Research and Innovation Day on June 2, 2011 at Wright State University, Dayton, OH, USA.
29. International conference entitled “51st Annual Meeting of the American College of Sports Medicine” held during June 2-5, 2004 at Indiana Convention Center & RCA Dome in Indianapolis, Indiana, USA.
30. International Conference on “Biomedical Engineering” held during Jan. 24-26, 2001 at Anna University, Chennai, India.
31. First regional conference of “IEEE Engineering in Medicine and Biology society” and 14th conference of Biomedical Engineering Society of India held during Feb. 15-18, 1995 at Vigyan Bhavan, New Delhi, India

NATIONAL CONGRESSES/ MEETINGS/ CONFERENCES

32. National Symposium on “Impedance Plethysmography in the measurement of Autonomic Functions and Hemodynamics” held during March 17-18, 2006 at Department of Physiology, All Indian Institute of Medical Sciences, New Delhi, India.
33. National seminar on “Standardization of NO SCALPEL VASECTOMY INSTRUMENTS” held on March 13, 2006 at National Institute of Health and Family Welfare, New Delhi, India.
34. National Conference on “Emerging Intrauterine Devices Forms: Frameless and Shape Memory IUDs” held during Sept. 15-16, 2005 at National Institute of Health and Family Welfare, New Delhi.
35. National Symposium on “CONTRACEPTIVE TECHNOLOGY AHEAD: Policies and Programs” held during April 21-23, 2005 at National Institute for Health and Family Welfare, New Delhi.
36. National Conference on “Male health” and annual conference of society of Andrology held during Dec. 13-15, 2003 at All India Institute of Medical Sciences, New Delhi, India.
37. National Symposium on “Medical science and technology for population welfare” held during Oct. 27-29, 2003 at Indian Institute of Technology, Kharagpur, India.
38. Baldev Singh National workshop on “Non-invasive Measurement of Peripheral Blood Flow and Cardiac Output” held during April 15-17, 2003 at Department of Physiology, All Indian Institute of Medical Sciences, New Delhi, India.
39. National Symposium on “Technology in Family Welfare” held during Dec. 8-10, 2001 at Indian Institute of Technology Delhi, Hauz-Khas, New Delhi, India.
40. National conference on “Biomedical Engineering” held during April 21-22, 2000 at University of Roorkee, India.
41. National Symposium & exposition on “Modern Instrumentation Challenges and Vision” held during Feb 27-28; 1999 at Aligarh Muslim University, Aligarh, India.

PARTICIPATION IN ORIENTATION/ REFRESHER/ SHORT-TERM COURSES

1. QIP/CEP Summer School on “Air Pollution” July 04-9, 2005, conducted by Department of Applied Mechanics, Indian Institute of Technology, Delhi.
2. 59th Four-Week Orientation Course, June 04-July 01, 2002, conducted by staff college, Jamia Millia Islamia (Central University), New Delhi
3. QIP/CEP Summer School on “Experimental Methods and Analysis” July 01-12, 2002, conducted by Department of Applied Mechanics, Indian Institute of Technology, Delhi.

4. QIP/CEP Winter School on “UNIX and Applications”, Dec. 09-13, 2002, conducted by Computer Service Centre, Indian Institute of Technology, Delhi.
5. QIP/CEP Summer School on “Instrumentation, Measurements and Analysis”, July 03-14, 2000, conducted by Department of Applied Mechanics, Indian Institute of Technology, Delhi.
6. Continuing education program (CEP) on “Improvement of Instruction through Education Technology”, July 25-31, 1995, conducted by Centre of Education Technology, Indian Institute of Technology, Delhi.
7. QIP/CEP on “Repair and Maintenance of Computers & Peripherals”, April 11-23, 1994, sponsored by the DOE, Govt. of India and conducted by DIT, New Delhi – 110 006.

MEMBER OF ORGANIZING/ PLANNING/ MANAGEMENT COMMITTEE

1. All India Technical Festivals ENCOMIUM: 2001 and 2002 conducted by IEEE Jamia Student Branch at Jamia Millia Islamia, New Delhi.
2. National workshop on “Technological Dimensions of Emerging Contraceptives” held during Sept. 25-26, 2002, at Indian Institute of Technology Delhi.
3. National symposium on “Medical science and technology for population welfare” held during Oct. 27-29, 2003, at Indian Institute of Technology Kharagpur.
4. Seminar on “Male health and Annual conference of the society of Andrology, India” held during Dec. 13-15, 2003, at All India Institute of Medical Sciences, New Delhi.
5. International conference on “Energy and environment- Strategies for sustainable development” held during Jan. 23-24, 2004, at Jamia Millia Islamia (Central University), New Delhi.
6. National symposium on “Contraception-technology ahead” held during April 21-23, 2005, at National Institute of Health and Family Welfare, New Delhi.
7. National workshop on “Emerging Intrauterine devices forms: Frameless and Shape memory IUDs” Organized by IIT Kharagpur during Sept. 15-16, 2005 at National Institute of Health and Family Welfare, New Delhi.
8. National conference on “Cardiac devices” Organized by IIT Kharagpur during Sept. 15-16, 2008 at National Institute of Health and Family Welfare, New Delhi.

FOREIGN VISITS

1. University of Maryland, MD, USA (May 27 to 18 June 2023).
2. All Rio suites hotel, Las Vegas, NV, USA (May 5 to 14 May 2019).
3. Hilton Anatole Hotel, Dallas, TX, USA (May 6 to 10 May 2018).
4. Sheraton Hotel, Denver, CO, USA (30 April to 07 May 2017).
5. Lake Buena Vista, Orlando, FL, USA (09 May to 17 May, 2015).

6. Atlanta, GA and Wright State University, Dayton, Ohio, USA (May to June, 2012).
7. Anchorage, AK and Wright State University, Dayton, Ohio, USA (May to June, 2011).
8. Los Angeles, CA, and Wright State University, Dayton, Ohio, USA (May to July, 2009).
9. New Orleans, LA, and Wright State University, Dayton, Ohio, USA (May to July, 2007).
10. Kansas City, Missouri and Wright State University, Dayton, USA (May to July, 2005).
11. Wright State University, Dayton, Ohio, USA (May to July, 2004)
12. San Antonio, Texas, USA (01 May to 14 May, 2003).
13. Rio de Janeiro, Brazil, Latin America (Sept. 15 to 25, 2000).

REPORTED NEWS IN LEADING NEWS PAPER AND WEBSITES

- News paper of India in Urdu on 17 July 2018: Rashtriya Shahara.
- Times of India: Education Times, published on 31 July 2017, pp-3
- News papers of India in English, Hindi, Urdu on 24 July 2017. News Papers: Okhal Times, Hindustan, Rashtriya Shahara, Inclave.
- Times of India: Education Times, published on 7 Sept. 2015, pp-3
- Okhla Times, published on 4 Sept. 2015, pp-1
- THE SOCIETY NEWS of ISAM (Indian Society of Aerospace Medicine) published in Indian Journal of Aerospace Medicine 2004; 48(1), pp-90.
- THE NEW INDIAN EXPRESS, published on 7th July 2003, pp-10.
- THE SOCIETY NEWS of ISAM (Indian Society of Aerospace Medicine) published in Indian Journal of Aerospace Medicine 2003; 47(1), pp-76 and 2004; 48(1), pp-90.
- THE TELEGRAPH, published in the KHOW-HOW/ INNOVATION MAGAZINE, on 8th July, 2002
- THE INDIA SCIENCE & TECHNOLOGY DIGEST of Asian technology information program, July 1-31, 2002, pp-3.