

Dr. Vinod Kumar Mall



Position: Visiting Professor, School of Engineering & Applied Sciences, Ahmedabad University

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NGO Founded: Buddha Se Kabir Tak

(<http://www.buddhasekabirtak.org/>)

Address: House of Amla, Sant Kabeer Marg, Sargasan, Gandhinagar - 382421.

Education

- Ph.D. (2015), DA-IICT Gandhinagar, Gujarat
Title of the thesis: *“Detection of Tampering in Digital Images Using Feature Based Hash Generation”*
- B.Tech. (E&C) 1984, IIT Varanasi (BHU)

Courses Taught

- Ahmedabad University
 1. Sensors, Instruments & Experimentation
 2. Electronic, Magnetic Devices & Circuits
 3. Constitution & Justice
- Marwadi University (Rajkot),

Biography

- President, Police & Fire Games Board of India
- Indian Police Services (Gujarat Cadre) 1986 batch
- Academic interest areas: Image Processing, Surveillance, Cyber Security, Science, Technology and Society, Philosophy of Religion.
- Publication: 8 research papers in peer-reviewed journals and proceedings of the international conferences
- Membership of Professional Societies: IEEE
- Passion: Popularizing philosophy of Buddha and Kabir.
- Represented India at Round Table talks with Government of Singapore in January 2008
- Represented Government of India at International conference at Muscat on Security in April, 2007 organized by International Institute for Strategic Studies, London
- Headed the Task Force for “Safe and secure Gujarat” project of Government of Gujarat for installing CCTV cameras in all 34 districts of Gujarat
- Was associated with eGujCop project of Gujarat Police for computerization of data and processes of Gujarat Police

Peer-Reviewed Publications

1. Anjali Diwan, Vinod Mall, Anil K Roy, and Suman K Mitra (2019), “Detection and Localization of Copy-move Tampering Using Features of Locality Preserving

Electromagnetic Theory to B.Tech. 5th Semester, July-Aug 2014.

- IIT Vadodara (Gandhinagar), Introduction to Digital Forensics, BE 3rd year (6th semester), Winter Semester (2015-16)

Workshops attended

- National Cyber Security Workshop 2015, Bengaluru, 22-23 August, 2015
- Panelist on “Role of Police in maintaining Social Harmony” during 2 days program on “Inter-faith Dialogue, Communal Harmony & National Integration”, 5 Nov 2019, along with Lt Gen Ata Hasnain.
- National Security Symposium, New Delhi, 21 Nov 2019
- Represented India at Round Table Conference on Security at Singapore (2008)

Outreach Activities

- Member, Board of Studies, MSc Physics Program, Marwadi University, Rajkot (2018-ongoing)
- Headed the task force of “Safe & Secure Gujarat” project for deploying CCTV cameras in 34 districts and 4 Police Commissionerates of Gujarat (2015-17)

Projection”, DOI: 10.1109/ICIIP47207.2019.8985823. URL: <https://ieeexplore.ieee.org/document/8985823>

2. Rutvik Shah, Akshit Soni, Vinod Mall, Tushar Gadhiya, and Anil K. Roy (2019), “Automatic Target Recognition from SAR Images Using Capsule Networks”, In PREMI 2019, DOI: 10.1007/978-3-030-34872-4_42. URL: https://link.springer.com/chapter/10.1007/978-3-030-34872-4_42
3. Tushar D. Gadhiya, Anil K. Roy, Suman K. Mitra and Vinod Mall (2017), “Use of Discrete Wavelet Transform Method for Detection and Localization of Tampering in a Digital Medical Image”, In IEEE TENSYPMP 2017, DOI: 10.1109/TENCON-Spring.2017.8070082. URL: <https://ieeexplore.ieee.org/document/8070082>
4. Vinod Mall, Anil K. Roy, and Suman K. Mitra (2013), “Digital Image Tampering Detection and Localization Using Singular Value Decomposition Technique”, In NCVPRIPG 2013, DOI: 10.1109/NCVPRIPG.2013.6776160. URL: <https://ieeexplore.ieee.org/document/6776160>
5. Vinod Mall, Anil K. Roy, Suman Mitra, and Shivanshu Shukla (2013), “Detection of Structural Tampering in a Digital Image Using Canny Edge Detector”, In ICIEV 2013, DOI: 10.1109/ICIEV.2013.6572599. URL: <http://ieeexplore.ieee.org/document/6572599>
6. Vinod Mall, Anil K. Roy, Suman Mitra, and Shivanshu Shukla (2013), “Comprehensive Image Index and Detection of Tampering in a Digital Image”, In ICIEV 2013, DOI: 10.1109/ICIEV.2013.6572704. URL: <http://ieeexplore.ieee.org/abstract/document/6572704>
7. Vinod Mall, Anil K. Roy, Suman K. Mitra, and Kedar Bhatt (2012), “Non-blind method of detection and localization of structural tampering using robust Hash-like function and similarity metric for digital images”, In IEEE TENCON 2012, DOI: 10.1109/TENCON.2012.6412184. URL: <https://ieeexplore.ieee.org/document/6412184/>
8. Vinod Mall, Kedar Bhatt, Suman K. Mitra, and Anil K. Roy (2012), “Exposing structural tampering in digital images”, In IEEE ISPCC 2012, DOI: 10.1109/ISPCC.2012.6224369. URL: <https://ieeexplore.ieee.org/document/6224369>

Talks Delivered

- Panel Discussion on “Gorakh Se Gandhi Tak” at History Department, Gorakhpur University, November 2023
- Lecture series delivered on “National Security and its Dimensions” for MPhil & PhD students at Central University of Gujarat on 18 March, 3 April, 30 April, 6 May 2013.
- Lecture on “Dynamics of India’s Internal Security” to MPhil

- Chaired the Committee of India's first M.Tech. Program on Cyber Security Curriculum Proposal of Raksha Shakti University, Gujarat (2014-15)

Honors & Awards

- Executive Member of eGujCop Committee for computerization of Police functioning in Gujarat (2010-14)
- Indian Police Medal for Meritorious Service 2002
- President Police Medal for Distinguished Services 2014
- Representative from Gujarat in Wrestling Federation of India 2010
- Core Organizing Committee member of wrestling event for the Commonwealth Games 2010

Volunteer Positions Held

Founding President of the NGO, "**Buddha se Kabir Tak**" for spreading the message of social harmony, equality and secularism.

& PhD students at Central University of Gujarat (March 2015)

- Invited talk on "Cyber-threat and Home Land Security", in National Cyber Security Workshop 2015, Bengaluru, India on 22 August, 2015
- Lecture on "Dynamics of India's Internal Security" to MPhil and PhD students at Central University of Gujarat 28 & 30 March 2017.
- Invited talk on "Strategic Issues for Young Scholars" (6 November 2017).
- PhD thesis Examiner for Avakash Kumar of Central University of Gujarat, thesis title "Human Trafficking as a security Issue: A study of India Bangla Desh Border Area".
- Invited talk on "Intellectual Roots of Composite Culture and Peace in India" at Central University of Gujarat on 18 September 2018.
- Lecture on "Composite Culture in India – Issues and Challenges" at Central University of Gujarat on 11 October 2017.
- Invited talk on "Composite Culture – Issues and Challenges" in Ahmedabad University on 22 June 2018.
- Invited talk on "भारतीय समाज, संस्कृति और साहित्य मे गांधी" on 21 February 2019 Central University of Gujarat (CUG)
- Invited talk on "Indian Composite Culture" on 10 April 2019 in an open session at Sakalchand Patel University, Visnagar.