



Youthful and rejuvenative, what a better way than teaching!!

(1) Full Name **Shri Sunil H. Karamchandani**

(2) Address: **11/Dreamland, Plot-103, Sion (West), Mumbai 400022**
Tel. No. **9870436023**

(3) Date of Birth: **29/04/1970** Age: **49**
Place of Birth: **Mumbai**

(4) Home Town with Address: Same as above
E-Mail I/D: **Sunil.Karamchandani@djsce.ac.in, skaramchandani@rediffmail.com,**

(5) Marital Status: **Married**

(6) Category **OPEN**

(7) Academic Qualification (Give full details beginning from S.S.C. or equivalent Examination along with attested true copies of certificates and statements of marks):

Examination Passed	University	Name of College or School	Class obtained % of marks	Month & Year of Passing
SSC	Pune Board	St. Josephs High School	77.42% (Distinction)	June, 1985
HSC	Bombay Board	K.C.College	85% (Distinction)	June, 1987
BE	Mumbai University	Thadomal Shahani Engg. College	55.21% (Pass)	Dec. 1992
ME	Mumbai University	Thadomal Shahani Engg. College	70.38% (Distinction)	June, 2002
PhD	-	IIT Bombay		Sept.2012

(8) Period of Practical / Professional / Industrial Experience: **1 Year**

Consultant Blue Star InfoTech, Mumbai. Image Processing Projects under the direct supervision of BARCO U.K.

Providing real time solutions for Interactive segmentation of abdominal aortic aneurysms in CTA images.



(9) (i) Period of Teaching Experience: **12 Years**

(ii) Subject and Classes taught: **Image & Video Processing, Speech Processing, Audio Processing, Statistical Signal Analysis, Random Signal Analysis, Digital Signal Processing & Applications, Data Compression and Encryption, Neural Networks, Modern Digital Communication, Numerical Analysis, System Analysis and Design, Management Information Systems, Web Page Designing, Digital Techniques and Applications, Visual Basic, C, Electronic Measurements and Instruments, Applied and Engineering Mathematics.**

Teaching Associate- IIT Bombay: VLSI, Digital Design, Basic Electronics, Communication Lab

(10) Details of Experience (Give attested true copies of certificate):

- **Assistant Professor**
Dwarkadas. J. Sanghvi College of Engineering *August 2012- till date*
- **Teaching Associate**
Indian Institute of Technology, Bombay
India UK Advance Technology Centre (IUATC) *April 2012 - June 2012*
Excellence in Next Generation Network Systems and Services
- **IIT Bombay and IIT Hyderabad** *July 2012*
High Performance Cognitive Radio Networks
- **Teaching Associate** *January 2008 - March 2012*
Indian Institute of Technology, Bombay
- **Institute of Technology,** *August 2005 - December 2007*
MSBTE, Mumbai
- **Bombay Institute of Technology,** *January 1993 - August 2005*
- **MSBTE, Mumbai**
- **Visiting Faculty:**
- **H&G.H.M Institute of Management,** *2007*
MMS, Mumbai University.
- **K. M. Kundnani College of Pharmacy** *2005*
Mumbai University.



- Watumull Institute of Electronics Engineering & Computer Technology,
- B. Tech, BSc Tech, Mumbai University. 2002-2004

(11) Give details of publications, Research Papers etc.

RECENT MAGAZINE / MEDIA / PRESS COVERAGE

- [1] Nature Magazine, “Wearable Sensor”, doi: 10.1038/nature.2011.122, Published: 23rd August 2011.
- [2] Hindustan Times, “How healthy are you? A patch of cloth can find out”, Published: 19th September 2011.
- [3] Financial Express, “Power Packed Study: Turning Cloth into a Body Sensor”, Published: 10th October 2011.
- [4] Lokmat Express, “A cloth sensor to identify eight diseases”, Published: 11th October 2011.

RECENT & REPRESENTATIVE PUBLICATIONS

- [1] **Invited Monograph**
Advanced Structured Materials, Springer, 2016.
tuPOY: Thermally Unstable Partially Oriented Yarns Silicon of the Future
- [2] **Journal Paper**
S. H. Karamchandani, H. D. Mustafa, S. N. Merchant, U. B. Desai, “tuPOY: Epitomizing a New Epoch in Communications with Polymer Textiles,” Proceedings of the IEEE, 100 (11): 3079-3098 (2012).
- [3] **Journal Paper**
S. H. Karamchandani, H. D. Mustafa, S. N. Merchant, U. B. Desai, “Thermally unstable Intelligent polymer textile biosensors”, Sensors and Actuators B: Chemical, 156 (2), Aug. 2011, pp. 765-772.
- [4] **Book Chapter**
S. H. Karamchandani, V. K. Madan, S.N. Merchant, U. B. Desai, P. Kelkar, “Multiclass SVM Interpretation of Haemodynamic Parameters for manifestation of Aortic and Arterial Occlusive Diseases”, Advances in Intelligent Systems and Computing, Volume 195 2013, Soft Computing Applications, Proceedings of the 5th International Workshop Soft Computing Applications (SOFA), Editors: Valentina Emilia Balas, János Fodor, Annamária R. Várkonyi-Kóczy, Jozsef Dombi, Lakhmi C. Jain, ISBN: 978-3-642-33940-0 (Print) 978-3-642-33941-7 (Online)
- [5] **Book Chapter**
S. H. Karamchandani, M. Panju, S. N. Merchant, U. B. Desai, G. D. Jindal, D.G. Khairnar,



Parallel Support Vector Configuration for Identification of Fast Independent Components in Morphological Patterns Derived by Cardiovasographic Analysis on the Radial Pulse, in Lecture Notes in Computer Science, titled Neural Information Processing: 19th Intl. Conf. ICONIP 2012, Doha, Qatar, November 12-15, 2012, Proceedings, Part II, 2012, pp. 567-574, Springer Berlin Heidelberg. Editors: Tingwen Huang, Zhigang Zeng, Chuandong Li, Chi Sing Leung, 978-3-642-34481-7.

[6] *Invited Paper*

S. H. Karamchandani, K. Gandhi, S. Gosalia, "PCA Encrypted Short Acoustic Data Inculcated in Digital Color Images" International Journal of Computers, Communications & Control (IJCCC), Romania, Scopus ISSN 1841-9836, 10(5):678-685, October, 2015.

Over 50 publications (**including monographs, journal papers, international and national conferences**) on wireless body area network architectures, Signal Image and Video Processing, Embedded systems and 2 books on Applied Mathematics

Awards

- **SAP Award for Excellence on use of ICT in Education for Online and Blended Learning at Faculty Development Programme, MHRD, Govt. of India at IIT Bombay, 2016**
- **Travel Grant from Science and Engineering Research Board (SERB) to participate in the 5th Int. Conf. on Computers Communication and Control, Oradea, Romania, 7th to 9th May 2014.**
- **Microsoft Research Travel Award 2010, 2012**
- **Best Paper Award at International Symposium on Control, Automation and Robotics, (ISCAR), Dharmsinh Desai University.**
- **DJ SPARK 2016 1st Prize: Project Name: Smart Utility for Blind (27 teams: 12 external and 15 internal)**
- **DJ SPARK 2017 3rd Prize: Project Name: Audience Measurement System (28 teams)**
- **DJ SPARK 2013 3rd Prize Project Name: Gesture Replicating Robotic Arm**

(12) Professional attachments, if any:

- **Senior Member, IEEE- 85020348**
- **Associate Editor IEEE Access**
- **Associate faculty for FDP on Online and Blended Learning organized by IIT Bombay under T10KT project from 3 August, 2017 to 12 October, 2017.**
- **Member of SKEP (Skill and Knowledge Enhancement Program), IEEE Bombay Section, SKEP organizes talks, tutorials and distinguished lectures with an intention to reach out to students, faculties and industry professionals.**



- Life Member, ISTE-27176
- Syllabus Design: Speech Processing, B.E, UOM
Statistical Signal Processing, M.E., UOM
- NAAC Core Committee DJSCE: Governance Leadership and Management
- NBA Dept. in charge Criteria 6, Faculties and Technical Support
- Co-ordinator, ecell, DJSCE, Mumbai
- Representative of DJSCE with National Entrepreneurship Network (NEN)

TPC, Member at International Conferences:

- General Chair 2018 International Conference on Power Energy and Materials Engg. (PEME 2018), Shanghai December 22-23, 2018.
- International Conference on Advanced Computational and Communication Paradigms, (ICACCP-2019), SMIT, Sikkim, India.
- International Conference on Artificial Intelligence and Computer Science, China, 2016.
- International Conference on Material Science and Engineering Application, Nanjing China, 2017.
- Int'l Conference on Discrete Mathematics and Computer Mathematics, Chongqing, China during Sept 15-17, 2018

Convener & Chairperson: IEEE Special Session INDIACom

Video Processing and Visual Communications, at IEEE INDIACom 2016 having over 15 presenters at this session in the areas of image and video processing.

- Co-ordinator, Faculty Development Programme on Wavelets (ISTE) at DJ SANGHVI COLLEGE OF ENGINEERING, 2nd and 3rd August 2019.

Invited Talks

- “Thermally Unstable Polymer Textiles for Sensing and Radiating Applications”, “Aurel Vlaicu”, University of Arad, Arad, Romania 2014.
- Current Research Trends in Signal and Image Processing, 17th July 2019 RJIT Mumbai.
- Seminar on Image Processing under SKEP, IEEE Bombay Section, for Dept. of EXTC, RGIT, Mumbai on 31st January, 2019.
- Introduction to Artificial Intelligence, Winter Internship Program, 19th -30th Dec. 2017, Department of Instrumentation and ISA-RAIT, RAIT, Mumbai, 21st Dec. 2017.
- Invited Talk, Discrete Time Signal Processing, Department of Instrumentation, ISA-RAIT, 1st March 2017.
- ISTE Short Term Training Program on Image Processing, D. J. Sanghvi College of Engineering, Mumbai, 2013.
- ISTE STTP on Emerging Fields in Telecommunications (9th -20th Jan 2012) Dept. of EXTC, LT College of Engg. 2012.



Workshops Conducted

- **MATLAB Workshop- IETE FORTNIGHT 2019 Activity, DJSCE, Mumbai 20th & 23rd January 2019.**
- **Industrial Visit to Minda SAI Ltd. Activity, SE and TE students, DJSCE, 9th February, 2019**
- **Industrial Visit to Recording Studio - Sonic Octaves Pvt. Ltd., Dept. of EXTC, Speech Processing and Audio Processing on 1st April, 2019.**
- **Workshop on Simulation Software at Thakur Polytechnic organized by MSBTE**

Revenue Generation

- **Organized a four Day Workshop on Stock Market Prediction under SVKM umbrella in association with NEN.**

Workshop/Talks Organized

- **TECH-TALK on Speech and audio processing under IETE-SF, Dept. of EXTC, DJSCE on 20th February, 2018. Dr. Milind Shah (HOD, EXTC, Fr. Agnel College of Engineering, Vashi) was the speaker for the talk.**
- **TECH-TALK, Seminar on Speech Processing, Dr. Preeti Rao, S.E./T.E./B.E, 8th of March, 2019.**
- **TECH-TALK on “Advanced Filtering and Estimation”, A talk by Dipan Mehta, Head of Technology, Vubites India Private Ltd., Dept. of Telecommunications, DJSCE.**
- **TECH-TALK on Video Processing using MATLAB A talk by Prof. Gargi Phadke was held in the Seminar Hall of DJSCE on the 30th August 2018**
- **Workshop on ‘Introduction of Signal and Image Processing using MATLAB’ was conducted by Dr. Gargi S. Phadke, Department of Instrumentation Engineering, RAIT, Navi Mumbai on 5th October 2018.**
- **“Why entrepreneurship”, a talk by Neeraj Shetty, founder of Recycle Impact, October 2016**
- **“Success in jobs and start-ups”, a Seminar by Ajay Bohra, CEO Credila Financial Services, October 2016.**
- **“Financial Markets”, a 4-day workshop conducted at DJSCE for over 30 participants with expert faculty from Goodlife Education, March 2016.**
- **Enrolment of students for “LEARNWISE”, a flagship learning platform (MOOC) created by the Wadhvani Foundation which offers a cutting edge format for overall management training and discovery of entrepreneurship education, December-Jan 2017.**



FPD/Workshops Attended

- **Four Week AICTE approved FDP by IIT Bombay on “Use of ICT in Education for Online and Blended Learning” under MHRD, Govt. of India May 2nd TO 12th July 2016.**
- **FDP on “R and Python Programming” conducted by department of Computer Engineering of D. J. Sanghvi College of Engineering during 12- 13th January 2018**
- **AICTE-ISTE approved Recent Trends in Wireless Networks, 2nd -7th January 2019 department of Electronics & Telecommunication Engg. D. J. Sanghvi College of Engineering.**
- **NEN Entrepreneurship Educator Program WF101, Wadhvani Foundation and National Entrepreneurship 15th -17th December 2016 at Aditya Institute of Management studies, Mumbai**
- **NEN Entrepreneurship Educator Program, Wadhvani Foundation and National Entrepreneurship, 23rd -25th June 2016, L. N. Welingkar Institute of Management Development and Research, Mumbai**

Professional Affiliations

- **Editorial Board: ‘Technofocus’, 2013, Yearly Journal, SVKM’s D.J. Sanghvi College of Engg., Mumbai, India**
- **Member for Syllabus Revision, Image Processing, University of Mumbai**
- **Member, Post Graduate Research Assessment Committee (RAC) for Master’s Programme, DJ Sanghvi College of Engineering.**
- **Joint Chief Conductor, Examinations, University of Mumbai, 28th May 2015 to 12th June 016.**
- **Member, Syllabus Design for Digital Electronics branch, MSBTE.**
- **Technical Committee Member, ATERH 2009, Bhabha Atomic Research Centre (BARC), Mumbai.**
- **Technical Committee Member, AAPV 2010, Board of Research in Nuclear Science (BRNS), Govt. of India.**

Professional Development

- **Session Chair, Image and Video Processing, International Conference on Advanced Computing Technologies and Applications (ICACTA), 26 – 27, Mumbai, March 2015.**
- **Member, Program Assessment Committee, Signal Processing & Wireless Communication, Dept. of EXTC, DJSCE, 2016-2019.**
- **Session Chair, Speech, Image and Video Signal Processing, IEEE, The International Conference on Computing Communication Control and Automation, (ICCCBEA), Pune, 26 – 27, February 2015.**
- **Session Chair, IEEE International Conference on Communication, Information and Computing Technology (ICCICT-2012), SPIT, Mumbai, 2012.**



- Session Chair, IEEE National Conference on Recent Trends in Computer Engineering (RTCE-2012), WIEECT, Mumbai, 2012.
- Adjudicator- State Level Research Convention, AVISHKAR 2012, University of Mumbai, 2013.
- Adjudicator- State Level Project Competition, INTEGREAT 2013, L&T, Institute of Technology, Mumbai 2013.
- Adjudicator- State Level Project Competition, ANVESHAN 2013 VCET, Mumbai 2013.
- Faculty Training & Development Programme - Harvard University

(13) Special qualifications or experience in respect of the post applied for

- Appraiser at the Annual Progress Seminar for PhD candidates at RGIT, Mumbai 27th September 2019.
- Invited Appraiser for ME Projects, SFIT, Mumbai.
- Statistical Signal Analysis: Course Topper at IIT Bombay
- Reviewer for reputed IEEE Journals and International Journal of Medicine and Medical Sciences by Academic Publishers.
- Project Assessment, Usha Mittal Institute of Technology, (B-Tech Semester –SEM VIII), 31st May 2017.
- Reviewer for IEEE Military Communications Conference (MILCOM) and many such reputed conferences
- Member, Admission Committee, ME Courses, 2013-2014
- Conference management of (ICVES'09) the IEEE International Conference on Vehicular Electronics and Safety (ICVES'09).
- Member of disciplinarian Committee, DJSCE for academic years (2016-2019).

Non Scholastic

- DJ Nature Trail Club
- First Prize: Ensemble cast at Film-Shilm 2010, IIT Bombay
- Certificate Course in Tango Dance at Buenos Aires, Argentina

(14) Is the minimum pay in the pay-scale acceptable to you? Yes / No
If not what is the minimum starting pay (basic) acceptable?

As per Experience & qualifications

(15) What notice period will be required by you for joining duties? **Not Applicable**

(16) Names and address of two Persons (who should not be relatives of the applicant) to whom reference may be made regarding applicant's work, character, etc.

I. Dr. U. B. Desai
Prof. Emeritus, IIT Hyderabad
ubdesai@iith.ac.in

II. Dr. S. N. Merchant
Professor Emeritus, IIT Bombay
merchant@ee.iitb.ac.in



(17) Name and address of the present employer:

D.J. Sanghvi College of Engineering, Vile Parle, Mumbai 400056

(18) Give details of attested true copies of certificates and testimonials enclosed.

- (1) **PhD Degree Certificate.**
- (2) **M.E. Degree Certificate & Mark sheets.**
- (3) **B.E. Degree Certificate & Mark sheets.**
- (4) **HSC, SSC Mark sheets**

DECLARATION

I hereby declare that the personal information given in this application is true, complete and correct and that no material information is willfully suppressed by me. I stand to be disqualified from securing employment in the college in the event of my being found to have rendered false incomplete and / or incorrect information.

(Dr. Sunil Karamchandani)