

## SPONSORSHIP/DEPUTATION CERTIFICATE

Mr.  
/Ms \_\_\_\_\_

Working in this institute as \_\_\_\_\_  
is hereby sponsored/Deputed for the National level  
workshop on Wavelets and its Application and will be  
relieved, as per requirement.

Date: \_\_\_\_\_  
Place: \_\_\_\_\_

Seal

### Mailing Address

**Dr. M. B. Kokare/ Dr. S. V. Bonde,**  
Coordinators,

IEEE National Level Workshop on "Wavelets and its Applications"  
Department of Electronics and Telecommunication Engineering,  
**Shri Guru Gobind Singhji Institute of Engineering and  
Technology, Vishnupuri, Nanded: 431606 (MS)**

Phones: 02462-269220, 269222  
09850770829 (cell-MBK)  
09403000800 (Cell-SVB)

FAX: 02462-229236

Email: [mbkokare@sggs.ac.in](mailto:mbkokare@sggs.ac.in) [mbkokare@yahoo.com](mailto:mbkokare@yahoo.com),  
[svbonde@sggs.ac.in](mailto:svbonde@sggs.ac.in) [svbonde@yahoo.com](mailto:svbonde@yahoo.com)

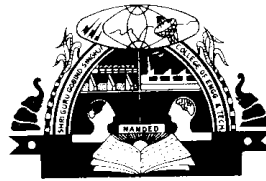


**National Level Workshop  
on**

# Wavelets and Applications

**June 8 -10, 2009**

**Coordinators  
Dr. M.B. Kokare  
Dr. S. V. Bonde**



**Organised by**

**Department of Electronics and Telecommunication  
Engineering,**

**SGGS Institute of Engineering and  
Technology, Nanded (MS)**

**and**



**IEEE Signal Processing Chapter  
Bombay Section**

### Scope:

The wavelet methods provide avenues for proper understanding of real world problems. The fundamental idea behind wavelets is to analyze a given function or signal/image locally and not by frequency alone (as in standard Fourier analysis). Since wavelets are local in space they tend to yield an economical representation of a large number of functions and operators hence are useful in such applications as compression routines, detecting features in images or signals and removing noise from time series. Mathematical studies are often aimed to analyze and visualize real world problems. This workshop will explore new directions in the fields of signal/ image processing and wavelet analysis. The workshops on wavelets will be **tutorial flavor and practically hands on experience will be addressed** to participants who are not necessarily wavelet experts. It will also provide a timely update on the most recent developments in this area. As a result, we expect the research work to be later molded in a more polished form. The field of Wavelet in Signal and Image Processing is expanding rapidly with ever-new developments and applications. The applications of Wavelets in Signal processing and image processing encompass the fields of Communication, Industrial automation, Multimedia, and medical imaging etc. Active research is being conducted in various R & D organizations and academic institutes. Hence it has become important for the educators, practicing engineers and the students, to continuously update their knowledge and skills in wavelets and its applications. We will bring together scientists and engineers for an interdisciplinary exchange of research and problems in new areas of time-scale analysis. This workshop is mainly focusing on the specialized topics of wavelets and its practical applications. It will help participants to update their knowledge and widen their horizon.

### **Workshop Contents:**

1. Fundamentals of Wavelets
2. Fundamentals of Linear algebra and vector spaces.
3. Filter bank and Wavelet Theory

4. Time Frequency Representation
5. Multiresolution Analysis.
6. Implementation issues of Wavelets
7. M-Channel Wavelets
8. Gabor Wavelet
9. Complex Wavelet and Rotated Complex Wavelet
10. Wavelet Frames and Packets
11. Thinking Beyond wavelets like Curvelet and Ridgelet Wavelet Transform
12. Application of Wavelets to Biomedical Signal processes, speech processing, image processing and pattern recognition.

### Faculty:

Many faculty members of the host institution have been specialized in Wavelet, Signal, Speech, Biomedical, Image Processing, and are active in the research and development in this area.

Apart from the faculty of SGGs, a few guest faculty members from Industries renowned in this area and IIT are going to deliver special lectures

### About SGGs:

Named after the tenth Sikh Guru, Shri Guru Gobind Singhji (SGGS) Institute of Engineering and Technology, Vishnupuri, Nanded was established by Govt. of Maharashtra in the year 1981 as a 100% grant-in-aid institution. The institute has been declared the status of Autonomous Institute since June 2004. This institution runs eight Undergraduate courses leading to B. Tech. degree and five postgraduate courses leading to M. Tech. degree. It is also recognized as a research centre of Swami Ramanand Teerth Marathwada University, Nanded leading to award of Ph. D. degree in various branches of Engineering. The six under graduate and two postgraduate programme of the institute has been accredited by the National Board of Accreditation (NBA). In addition to this, institute has Center of Excellence in Information Technology, Entrepreneurship Development Cell (EDC), and Biomedical Instrumentation Center (BMIC). The college campus is

spread over 46 acres of land at Vishnupuri, adjacent to the Swami Ramanand Teerth Marathwada University campus and is at a distance of about 7 Km from Nanded Railway station. Nanded is a district head quarter and is famous for Sachkhand Huzur Saheb Gurudwara. It is located on the banks of holy river Godavari and is an important railway station on Aurangabad-Secunderabad line. It is connected by direct trains to Mumbai, Nasik, and Aurangabad and to Amritsar via Manmad-Bhopal-Delhi.

### Target Participants

1. Faculty from Engineering colleges (preferably for the benefit of the new entrants in this field)
  2. Practicing Engineers from Industries
- Participants are required to register in advance **on or before 25<sup>th</sup> May 2009** using the enclosed format alongwith registration fees.

### Registration Fee

Category	Candidates from	Reg. Fees
A.	Faculty from Engg. Colleges	Rs. 3000/-
B.	Students	Rs. 2000/-
C.	Industry	Rs. 4000/-

Payable by Demand draft on SBI Nanded in favour of **“Director, SGGsIE&T, Nanded”**. **Mention the course name behind the Demand Draft.**

### Allowances, Lodging and Boarding:

The arrangements for lodging, working lunch, and tea/coffee during the course will be made by the Institute. No TA/DA will be admissible to any participant.

### Important Date:

1. **Last date for application: 25<sup>th</sup> May 2009**
2. **Participant Confirmation: 29<sup>th</sup> May 2009**

## **REGISTRATION FORM**

### **National Level Workshop on Wavelets and its Applications**

### **(June 8 -10, 2009)**

1. Name \_\_\_\_\_
  2. a. Designation \_\_\_\_\_  
b. Institute \_\_\_\_\_
  3. Mailing Address \_\_\_\_\_  
\_\_\_\_\_
  4. E-mail \_\_\_\_\_
  5. Fax \_\_\_\_\_ Phone \_\_\_\_\_
  6. Educational Qualifications \_\_\_\_\_  
\_\_\_\_\_
  7. Experience: \_\_\_\_\_
  8. Category: A/B/C
  9. Details of reg. Fees DD no. \_\_\_\_\_  
Drawn on \_\_\_\_\_
- Place \_\_\_\_\_ Signature of the Applicant \_\_\_\_\_