# Report of the

# Workshop on Image Watermarking and Publishing Ethics

at

## GTU PG SCHOOL, BISAG, Gandhinagar

by **Prof. Gaurav Sharma**

**University Of Rochester, USA**

**19th March-2015 (08:00 AM to 12:00 PM)**

With the visionary leadership of our honorable Vice Chancellor Dr. Akshai Aggrawal GTU PG SCHOOL organized Workshop on two of the very important topics for the Post-graduate students of GTU PG School which were *"Digital Image Watermarking"* and *"Research and Publishing Ethics"* at the BISAG campus. The 4 hours' Workshop was conducted by Prof. Gaurav Sharma, University of Rochester, USA who has 15 years of rich experience of working at the "University of Rochester", which is one of the top 10 proprietary earning universities in USA. Dr Sharma has specialized in Digital Watermarking and has published over 115 conference and 50 IEEE journal papers. Many of his papers hold a large number of citations.

In the first session of workshop Prof. Gaurav Sharma discussed the basics of Image, Image Processing, representation of Image in various domains and Digital Watermarking. The flow then got focused on Image watermarking where he explained various methods, schemes and types of image watermarking to make it as fragile as possible. While narrating the tale of timeline of watermarks he also gave the students a best example of how a simple idea can turn into a great work and field of global research with pure dedication and expertise. The session turned out to be quite an interactive one, since students shared their views and cleared their doubts and many of them got inspired for their dissertation as well.

He also explained technical concept of the following:



- Conventional Watermarks
- Digital Watermarking
- Data hiding application
- Multiple watermarks
- Spread spectrum watermark
- Quantization Index Modulation (QIM) Watermark Embedding
- Optimal Watermark Embedding

**Workshop Attend by GTU PG SCHOOL Students**

The second half of the session was all about "Research and Publishing Ethics". In the current situation where research work is turning out to be a mandatory phase for accomplishment of certifications, the quality and dedication towards research and focus on a particular problem is getting degraded. The session acknowledged the necessity, benefits and moral values of qualitative and original research to the students and also inspired them to work in as optimized, organized and error-free way as possible. Since all or at least most of the students were new to research field, Prof. Sharma also spoke about universal traditions of Research committees, dos and don'ts of publishing papers and working flows on a

dedicated field. Being an Editor-in-Chief of IEEE journals he also shared experience of the best and the worst works and a few very helpful case studies.

The workshop ended with a vote of thanks to experts, participants and students of the GTU PG School for their valuable support. There was sharing of smiles, gratitude and satisfaction from both the sides and students are looking forward to further such experiences in future.



**Vote of Thanks to Experts**



**Group Photo of Participants with Expert Prof. Gaurav Sharma**

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1. Reason to select Topic must be clear in authors mind.
2. Topic should be related to your area of interest.
3. You should start writing before you have all the work done and everything figured out.
4. Typical 150-250 word abstract must be written.
5. Proof reading and checking of equations should be carefully done.
6. Author name: The author's first name should be spelled out, not abbreviated with an initial, so that readers know who you are.
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17. Conclusions: The final section of a paper should be titled "Conclusions" not "Conclusion".
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