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Innovative Teaching - Learning Activities NPTEL Video on Audio and Video compression

Learning Objective: Students will understand the overview of audio and video compression

Outcomes: On completion students were able to-

- State the need for compression techniques and its benefits
- Explain how audio compression in MPEG
- Explain the basic principle of video compression
- Explain popular video compression standards

NPTEL video on
Compression

<http://nptel.ac.in/courses/106105082/38>



Compression

* Required

1. Roll No. *

2. Name *

3. 1,024 KB is equivalent to

Mark only one oval.

- ☐ 1 KB
- ☐ 1 MB
- ☐ 1 GB
- ☐ 1 TB
- ☐ Other: _____

4. Which of the following is also known as H.264?

Mark only one oval.

- ☐ MPEG, Part 6
- ☐ JPEG
- ☐ Wavelet
- ☐ MPEG-4 Part 10

5. A device or program for encoding or decoding a digital data stream or signal is called a Codec.

Mark only one oval.

- ☐ True
- ☐ False

6. _____ is a technique for reducing the data size for storage, handling and transmission.

Mark only one oval.

- ☐ Low loss compression
- ☐ Lossy compression
- ☐ Metadata compression
- ☐ Redundant bandwidth compression

7. The newest of the following compression formats is _____.

Mark only one oval.

- ☐ H.264
- ☐ JPEG
- ☐ MPEG
- ☐ Wavelet

8. Omitting part of the video signal that cannot be noticed by the human eye is called _____.

Mark only one oval.

- ☐ interlacing
- ☐ duplicity reduction
- ☐ irrelevancy reduction
- ☐ interspatial relevancy

9. CIF is known as _____.

Mark only one oval.

- ☐ common intermediate format
- ☐ common interchange format
- ☐ Both A and B
- ☐ Neither A nor B

10. Which of the following is not a compression technology?

Mark only one oval.

- ☐ JPEG
- ☐ MPEG
- ☐ REMPG
- ☐ WAVELET

11. The larger the pixel size of an image the better the quality.

Mark only one oval.

- ☐ TRUE
- ☐ FALSE

12. _____ is a bitmap graphics format that has been designed to replace GIF.

Mark only one oval.

- ☐ PNG
- ☐ MPEG
- ☐ RTF
- ☐ WTC

13. The first digital video coding standard was created in _____.

Mark only one oval.

- ☐ 1964
- ☐ 1984
- ☐ 1992
- ☐ 2006

14. According to the Nyquist theorem, we need to sample an analog signal _____ times the highest frequency.

Mark only one oval.

- ☐ 3
- ☐ 2
- ☐ 4
- ☐ NONE OF THESE

15. The second phase of JPEG is _____.

Mark only one oval.

- ☐ DCT transformation
- ☐ data compression
- ☐ none of the above
- ☐ quantization

16. The third phase of JPEG is _____.

Mark only one oval.

- ☐ DCT transformation
- ☐ data compression
- ☐ none of the above
- ☐ quantization

17. In _____ encoding, the differences between the samples are encoded instead of encoding all the sampled values.

Mark only one oval.

- ☐ predictive
- ☐ perceptual
- ☐ both a and b
- ☐ none of the above



Innovative Teaching - Learning Activities
Result of quiz on NPTEL video

Timestamp	Total score	Roll No.	Name
2018/04/06 1:54:04 PM GMT+5:30	15.00 / 15	57	Mansi Thorat
2018/04/06 2:04:13 PM GMT+5:30	15.00 / 15	17	Yash Gujar
2018/04/06 2:06:46 PM GMT+5:30	15.00 / 15	9	Snehal Dalvelkar
2018/04/06 2:33:51 PM GMT+5:30	15.00 / 15	48	sujata sirsat
2018/04/06 2:37:54 PM GMT+5:30	15.00 / 15	15	aboli ghodke
2018/04/06 2:45:07 PM GMT+5:30	10.00 / 15	21	rachana jadhav
2018/04/06 2:46:57 PM GMT+5:30	13.00 / 15	4	PRAJAKTA BHAGAT
2018/04/06 3:15:01 PM GMT+5:30	4.00 / 15	36	gayatri vijay narkhede
2018/04/06 5:12:13 PM GMT+5:30	11.00 / 15	53	Taday Rutwik S
2018/04/06 7:38:08 PM GMT+5:30	13.00 / 15	5	Harshali b bhamare
2018/04/06 8:20:20 PM GMT+5:30	7.00 / 15	34	Pranav naki
2018/04/06 8:41:01 PM GMT+5:30	15.00 / 15	2	Rohit Bagad
2018/04/06 8:47:25 PM GMT+5:30	15.00 / 15	37	Snehal Nerpagare
2018/04/07 10:25:26 AM GMT+5:30	9.00 / 15	54	Viraj Tambe
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2018/04/07 2:01:46 PM GMT+5:30	14.00 / 15	56	AKKSHAY PRAKASH TAYADE
2018/04/07 2:24:53 PM GMT+5:30	14.00 / 15	3	Pramod M Bejo
2018/04/07 2:25:52 PM GMT+5:30	15.00 / 15	28	Jyoti Anna Khairnar
2018/04/07 2:29:52 PM GMT+5:30	15.00 / 15	1	Ruchita Bachhav
2018/04/07 2:30:53 PM GMT+5:30	15.00 / 15	10	Kalyani B Deoghare
2018/04/07 2:33:47 PM GMT+5:30	13.00 / 15	12	Pooja Dhage
2018/04/07 2:36:49 PM GMT+5:30	13.00 / 15	29	Tushar khairnar
2018/04/07 5:08:19 PM GMT+5:30	11.00 / 15	55	Jyoti uttam Tathe
2018/04/07 6:48:36 PM GMT+5:30	6.00 / 15	47	ABHAY SINGH
2018/04/08 11:17:59 AM GMT+5:30	8.00 / 15	26	Kapadnis Saurabh Prakash
2018/04/08 9:07:23 PM GMT+5:30	14.00 / 15	33	MOHARIR SAURABH BHANUDAS
2018/04/08 10:07:32 PM GMT+5:30	14.00 / 15	46	Fatema shaikh
2018/04/09 8:19:49 AM GMT+5:30	13.00 / 15	21	Rachana jadhav
2018/04/09 11:02:09 AM GMT+5:30	13.00 / 15	10	Ganesh Datir
2018/04/09 12:56:15 PM GMT+5:30	15.00 / 15	31	Pranav Kulkarni
2018/04/09 1:34:43 PM GMT+5:30	12.00 / 15	49	Sonawane bhagyashree
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2018/04/09 2:37:57 PM GMT+5:30	13.00 / 15	59	sonali wagh
2018/04/09 2:39:08 PM GMT+5:30	14.00 / 15	35	Shubham Dilip Nalage
2018/04/09 2:57:19 PM GMT+5:30	15.00 / 15	42	Shivani Patil
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2018/04/09 4:25:57 PM GMT+5:30	8.00 / 15	40	gauravi
2018/04/09 4:36:11 PM GMT+5:30	13.00 / 15	61	Shamal Avinash Walunje
2018/04/10 12:40:42 PM GMT+5:30	9.00 / 15	38	Nimse vaishnavi