

ISO/IEC TR 23002-8:2021-05 (E)

Information technology - MPEG video technologies - Part 8: Working practices using objective metrics for evaluation of video coding efficiency experiments

| Contents | | Page |
|---------------------------|---|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Abbreviated terms | 1 |
| 5 | Video coding experiments using Bjøntegaard delta bit rate (BD-rate) measurements | 2 |
| 6 | The PSNR-based BD-rate concept | 3 |
| 7 | PSNR-based BD-rate calculation | 4 |
| 7.1 | General | 4 |
| 7.2 | Calculation of PSNR for individual frames | 4 |
| 7.3 | Calculation of sequence PSNR and bit rate numbers for each QP value | 5 |
| 7.4 | Calculation of sequence BD-rate number | 5 |
| 7.5 | Consideration of chroma fidelity | 8 |
| 7.6 | Calculation of aggregate BD-rate value for all sequences | 9 |
| 8 | BD-rate calculation for HDR material | 9 |
| 9 | BD-rate calculation for 360° video | 9 |
| Bibliography | | 11 |