Figure 3.5 PSNR of predicted frames using different algorithms for the sequence "Football"

Figure 3.6 The difference of PSNR of the predicted frames between PME-LS1 and AMVR for the sequence "Football"
The original reduced frame #125 of “Football” is shown in Figure 3.7. From the Figure 3.8, we can compare different algorithms by the predicted frames and error frames. From the error frames, we can clearly see that the distortion of PME and PME-LS1 (Figure 3.8(b)&(c)) are very close to that in full search (Figure 3.8(a)), whereas, the distortion in AMVR (Figure 3.8(d)), and MEAN are much higher in the center portion of the frame.
Figure 3.8 Comparison for the frame #125 of "Football": the predicted frame #125 (left) and error image (right) by (a) full search, (b) PME, (c) PME-LS1 (d) AMVR and (e) MEAN.
Figure 3.9 PSNR of predicted frames using different algorithms for the sequence "Salesman".

Figure 3.10 The difference of PSNR of the predicted frames between PME-LS2 and AMVR for the sequence "Salesman".
Figure 3.12 Comparison for the frame #88 of "Salesman"; the predicted frame #88 (left) and error image (right) by (a) full search, (b) PME, (c) PME-LS2 (d) AMVR and (e) MEAN.
Figure 3.13 PSNR of predicted frames using different algorithms for the sequence "Table Tennis"

Figure 3.14 The difference of PSNR of the predicted frames between PME-LS2 and AMVR for the sequence "Table Tennis"
Figure 3.15 Original reduced frame #140 of "Table Tennis"
Figure 3.16 Comparison for the frame #140 of “Table Tennis”; the predicted frame #140 (left) and error image (right) by (a) full search, (b) PME, (c) PME-LS2, (d) AMVR and (e) MEAN.
Figure 3.17 PSNR of predicted frames using different algorithms for the sequence "Miss America"
Figure 3.20 Comparison for the frame #53 of “Miss America”; the predicted frame #53 (left) and error image (right) by (a) full search, (b) PME, (c) PME-LS1 (d) AMVR and (e) MEAN.
Figure 3.21 (a) PSNR of predicted frames using different algorithms, (b) PSNR difference AMVR, MPME and MPME-LS VS Full Search, (c) PSNR difference of MPME and MPME-LS VS PME-LS2 for the sequence “Football”
Figure 3.22 (a) PSNR of predicted frames using different algorithms, (b) PSNR difference AMVR, MPME and MPME-LS VS Full Search, (c) PSNR difference of MPME and MPME-LS VS PME-LS2 for the sequence “Salesman”
Figure 3.23 (a) PSNR of predicted frames using different algorithms, (b) PSNR difference AMVR, MPME and MPME-LS VS Full Search, (c) PSNR difference of MPME and MPME-LS VS PME-LS2 for the sequence "Table Tennis"
Figure 3.24 (a) PSNR of predicted frames using different algorithms, (b) PSNR difference AMVR, MPME and MPME-LS VS Full Search, (c) PSNR difference of MPME and MPME-LS VS PME-LS2 for the sequence “Miss America”
Figure 3.25 Original reduced frame #96 of "Football"
Figure 3.26 Comparison for the frame #96 of “Football”; the predicted frame #96 (left) and error image (right) by (a) full search, (b) MPME, (c) MPME-LS (d) PME, (e) PME-LS2, (f) AMVR and (g) MEAN.
Figure 3.27 Original reduced frame #92 of “Salesman”
Figure 3.28 Comparison for the frame #92 of “Salesman”; the predicted frame #92 (left) and error image (right) by (a) full search, (b) MPME, (c) MPME-LS (d) PME, (e) PME-LS2, (f) AMVR and (g) MEAN.
Figure 3.31 Original reduced frame #96 of “Miss America”
Figure 3.32 Comparison for the frame #96 of “Miss America”; the predicted frame #96 (left) and error image (right) by (a) full search, (b) MPME, (c) MPME-LS (d) PME, (e) PME-LS2, (f) AMVR and (g) MEAN.
Figure 4.6 (a) PSNR of predicted B-frames using different algorithms, (b) PSNR of full search minus that of P2BS-LS and 3SS for "Football"
Figure 4.7 (a) PSNR of predicted B-frames using different algorithms; (b) PSNR of full search minus that of P2BS-LS and 3SS for "Table Tennis"
Figure 4.8 (a) PSNR of predicted B-frames using different algorithms, (b) PSNR of full search minus that of P2BS-LS and 3SS for "Salesman"
Figure 4.9 (a) PSNR of predicted B-frames using different algorithms; (b) PSNR of full search minus that of P2BS-LS and 3SS for "Miss America"
Figure 4.10 (a) PSNR of predicted P-frames using different algorithms; (b) PSNR of FS-14 minus that of P2PS-LS and 3SS for "Football"
Figure 4.11 (a) PSNR of predicted P-frames using different algorithms; (b) PSNR of FS-14 minus that of P2PS-LS and 3SS for "Table Tennis"
Figure 4.12 (a) PSNR of predicted P-frames using different algorithms; (b) PSNR of FS-14 minus that of P2PS-LS and 3SS for "Salesman"
Figure 4.13 PSNR of predicted P-frames (a) using different algorithms, (b) PSNR difference of FS-14 minus P2PS-LS and 3SS for the sequence “Miss America”
Figure 5.4 PSNR of BMA, DMVE, SSPS-IO for the sequence of "Football"
Figure 5.5 Part of frame 29 of “Football” error concealed by (a) DMVE, (b) SSPS-IO
Figure 5.6 Comparison for frame #29 of “Football” (a) The original frame; the predicted frame #29 (left) and error image (right) by (b) original MV, (c) BMA, (d) DMVE, (e) SSPS, (f) SSPS-IQ.
Figure 5.7 PSNR of BMA, DMVE, SSPS-IO for the sequence of "Table Tennis"
Figure 5.8 Comparison for frame #130 of "Table Tennis" (a) The original frame; the predicted frame #130 (left) and error image (right) by (b) original MV, (c) BMA, (d) DMVE, (e) SSPS, (f) SSPS-IO.
Figure 5.9 PSNR of BMA, DMVE, SSPS-IO for the sequence of "Flower Garden"
Figure 5.10 Comparison for frame #76 of “Flower Garden” (a) The original frame; the predicted frame #76 (left) and error image (right) by (b) original MV, (c) BMA, (d) DMVE, (e) SSPS, (f) SSPS-IO.