# Amy R Reibman

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 89 papers | 2,437 citations | 430442 18 h-index | 264894 42 g-index |
| 91 all docs | 91 docs citations | 91 times ranked | 973 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multiple description coding using pairwise correlating transforms. IEEE Transactions on Image Processing, 2001, 10, 351-366. | 6.0 | 293 |
| 2 | Optimal Detection and Performance of Distributed Sensor Systems. IEEE Transactions on Aerospace and Electronic Systems, 1987, AES-23, 24-30. | 2.6 | 230 |
| 3 | Packet loss resilience of MPEG-2 scalable video coding algorithms. IEEE Transactions on Circuits and Systems for Video Technology, 1996, 6, 426-435. | 5.6 | 152 |
| 4 | Design of quantizers for decentralized estimation systems. IEEE Transactions on Communications, 1993, 41, 1602-1605. | 4.9 | 146 |
| 5 | Joint selection of source and channel rate for VBR video transmission under ATM policing constraints. IEEE Journal on Selected Areas in Communications, 1997, 15, 1016-1028. | 9.7 | 124 |
| 6 | Multiple-description video coding using motion-compensated temporal prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 193-204. | 5.6 | 121 |
| 7 | Quality Monitoring of Video Over a Packet Network. IEEE Transactions on Multimedia, 2004, 6, 327-334. | 5.2 | 119 |
| 8 | No-reference image and video quality estimation: Applications and human-motivated design. Signal Processing: Image Communication, 2010, 25, 469-481. | 1.8 | 112 |
| 9 | Methods for performance evaluation of VBR video traffic models. IEEE/ACM Transactions on Networking, 1994, 2, 176-180. | 2.6 | 111 |
| 10 | An adaptive congestion control scheme for real-time packet video transport. , 1993, , . | | 89 |
| 11 | An error concealment algorithm for images subject to channel errors. IEEE Transactions on Image Processing, 1995, 4, 533-542. | 6.0 | 85 |
| 12 | A Versatile Model for Packet Loss Visibility and its Application to Packet Prioritization. IEEE Transactions on Image Processing, 2010, 19, 722-735. | 6.0 | 74 |
| 13 | Perceptual Visual Signal Compression and Transmission. Proceedings of the IEEE, 2013, 101, 2025-2043. | 16.4 | 67 |
| 14 | Error-resilient transcoding for video over wireless channels. IEEE Journal on Selected Areas in Communications, 2000, 18, 1063-1074. | 9.7 | 65 |
| 15 | Forward error control for MPEG-2 video transport in a wireless ATM LAN. Mobile Networks and Applications, 1996, 1, 245-257. | 2.2 | 42 |
| 16 | Predicting H.264 Packet Loss Visibility using a Generalized Linear Model. , 2006, , . | | 41 |
| 17 | An improvement to multiple description transform coding. IEEE Transactions on Signal Processing, 2002, 50, 2843-2854. | 3.2 | 38 |
| 18 | Predicting packet-loss visibility using scene characteristics. , 2007, , . | | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characterizing packet-loss impairments in compressed video. , 2007, , . | | 35 |
| 20 | Quality Evaluation of Motion-Compensated Edge Artifacts in Compressed Video. IEEE Transactions on Image Processing, 2007, 16, 943-956. | 6.0 | 32 |
| 21 | TES modeling for analysis of a video multiplexer. Performance Evaluation, 1992, 16, 21-34. | 0.9 | 31 |
| 22 | Quality assessment for super-resolution image enhancement. , 2006, , . | | 31 |
| 23 | Hough transform and signal detection theory performance for images with additive noise. Computer Vision, Graphics, and Image Processing, 1990, 52, 386-401. | 1.1 | 22 |
| 24 | Scalable video coding with managed drift. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 131-140. | 5.6 | 21 |
| 25 | DCT-based embedded coding for packet video. Signal Processing: Image Communication, 1991, 3, 231-237. | 1.8 | 20 |
| 26 | Intellectual Property Protection Systems and Digital Watermarking. Lecture Notes in Computer Science, 1998, , 158-168. | 1.0 | 18 |
| 27 | Full-Reference Quality Estimation for Images With Different Spatial Resolutions. IEEE Transactions on Image Processing, 2014, 23, 2069-2080. | 6.0 | 16 |
| 28 | An adaptive congestion control scheme for real-time packet video transport. Computer Communication Review, 1993, 23, 20-31. | 1.5 | 15 |
| 29 | The Challenge of Estimating Video Quality in Video Communication Applications [In the Spotlight]. IEEE Signal Processing Magazine, 2012, 29, 160-158. | 4.6 | 15 |
| 30 | Optimal fault-tolerant signal detection. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 179-180. | 2.0 | 13 |
| 31 | Perceptual quality based packet dropping for generalized video GOP structures. , 2009, , . | | 12 |
| 32 | Intellectual property protection systems and digital watermarking. Optics Express, 1998, 3, 478. | 1.7 | 11 |
| 33 | Systematic stress testing of image quality estimators. , 2011, , . | | 10 |
| 34 | Determining the Necessary Frame Rate of Video Data for Object Tracking under Accuracy Constraints. , 2018, , . | | 10 |
| 35 | Animal Localization in Camera-Trap Images with Complex Backgrounds. , 2020, , . | | 10 |
| 36 | Supplemental subjective testing to evaluate the performance of image and video quality estimators. Proceedings of SPIE, 2011, , . | 0.8 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A strategy to jointly test image quality estimators subjectively. , 2012, , . | | 9 |
| 38 | Issues of quality and multiplexing when smoothing rate adaptive video. IEEE Transactions on Multimedia, 1999, 1, 352-364. | 5.2 | 8 |
| 39 | Accuracy prediction for pedestrian detection. , 2017, , . | | 8 |
| 40 | Video-Based Prediction for Header-Height Control of a Combine Harvester. , 2019, , . | | 8 |
| 41 | Quality-adaptive deep learning for pedestrian detection. , 2017, , . | | 7 |
| 42 | A no-reference Spatial Aliasing Measure for digital image resizing. , 2008, , . | | 6 |
| 43 | Performance of H.264 with isolated bit error: Packet decode or discard?. , 2011, , . | | 6 |
| 44 | Design Issues for Layered Quality-Adaptive Internet Video Playback. Lecture Notes in Computer Science, 2001, , 433-451. | 1.0 | 6 |
| 45 | Video quality estimation for internet streaming. , 2005, , . | | 5 |
| 46 | Introduction to the Special Issue on New Subjective and Objective Methodologies for Audio and Visual Signal Processing. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 614-615. | 7.3 | 5 |
| 47 | Characterizing distortions in first-person videos. , 2016, , . | | 5 |
| 48 | DashCam video compression using historical data. , 2016, , . | | 5 |
| 49 | Multi-View Hand-Hygiene Recognition for Food Safety. Journal of Imaging, 2020, 6, 120. | 1.7 | 5 |
| 50 | Designing a Computer-Vision Application: A Case Study for Hand-Hygiene Assessment in an Open-Room Environment. Journal of Imaging, 2021, 7, 170. | 1.7 | 5 |
| 51 | Modeling Two-Layer MPEG-2 Video Traffic. , 1996, , 419-426. | | 5 |
| 52 | Robustness Analysis of Face Obscuration. , 2020, , . | | 5 |
| 53 | <title>Novel computationally scalable algorithm for motion estimation</title>. , 1998, , . | | 4 |
| 54 | Quality estimation for images and video with different spatial resolutions. , 2012, , . | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Controllable Image Illumination Enhancement with an Over-Enhancement Measure. , 2018, , . | | 4 |
| 56 | Image quality assessment in first-person videos. Journal of Visual Communication and Image Representation, 2018, 54, 123-132. | 1.7 | 4 |
| 57 | An automatic grid corner extraction technique for camera calibration. , 2012, , . | | 3 |
| 58 | A probabilistic pairwise-preference predictor for image quality. , 2013, , . | | 3 |
| 59 | Full reference video quality estimation for videos with different spatial resolutions. , 2014, , . | | 3 |
| 60 | Software to Stress Test Image Quality Estimators. , 2016, , . | | 3 |
| 61 | Real-Time Print Quality Diagnostics. IS&T International Symposium on Electronic Imaging, 2017, 2017, 174-179. | 0.3 | 3 |
| 62 | Subjective evaluation of distortions in first-person videos. IS&T International Symposium on Electronic Imaging, 2017, 29, 110-117. | 0.3 | 3 |
| 63 | Prediction system for activity recognition with compressed video. IS&T International Symposium on Electronic Imaging, 2018, 2018, 254-1-254-6. | 0.3 | 3 |
| 64 | Estimating Image Quality for Person Re-Identification. , 2021, , . | | 3 |
| 65 | Full-Reference Video Quality Estimation for Videos With Different Spatial Resolutions. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1988-2000. | 5.6 | 2 |
| 66 | Mutual reference frame-quality assessment for first-person videos. , 2017, , . | | 2 |
| 67 | Enhancing viewability for first-person videos based on a human perception model. , 2017, , . | | 2 |
| 68 | Measuring and Improving the Viewing Experience of First-person Videos. , 2017, , . | | 2 |
| 69 | Special issue on Open Media Compression: Overview, Design Criteria, and Outlook on Emerging Standards. Proceedings of the IEEE, 2021, 109, 1423-1434. | 16.4 | 2 |
| 70 | Estimating the Subjective Video Stability of First-Person Videos. IS&T International Symposium on Electronic Imaging, 2018, 2018, 1-7. | 0.3 | 2 |
| 71 | Signal processing for networked multimedia. IEEE Signal Processing Magazine, 1997, 14, 39-41. | 4.6 | 1 |
| 72 | Perceptual impact of burthy versus isolated packet losses in H.264 compressed video. , 2008, , . | | 1 |

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|---|---|---|---|
| 73 | Image quality estimation for different spatial resolutions. , 2013, , . | | 1 |
| 74 | Designing a biased specification-based subjective test of image quality. , 2015, , . | | 1 |
| 75 | Introduction to the Issue on Visual Signal Processing for Wireless Networks. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 3-5. | 7.3 | 1 |
| 76 | Analyzing Real-Time Multimedia Content from Network Cameras Using CPUs and GPUs in the Cloud. , 2018, , . | | 1 |
| 77 | Characterizing the Utility of Surveillance Video for Person Re-Identification. , 2019, , . | | 1 |
| 78 | ISOBlue HD: An Open-Source Platform for Collecting Context-Rich Agricultural Machinery Datasets. Sensors, 2020, 20, 5768. | 2.1 | 1 |
| 79 | Turkey Behavior Identification Using Video Analytics And Object Tracking. , 2021, , . | | 1 |
| 80 | ICC Profile Color Table Compression. Color and Imaging Conference, 2016, 2016, 260-265. | 0.1 | 1 |
| 81 | Detection performance of two-sensor distributed systems for normal local ROCs. , 1987, , . | | 0 |
| 82 | Hough transform and signal detectin theory performance for images with additive noise. Computer Vision, Graphics, and Image Processing, 1990, 52, 143. | 1.1 | 0 |
| 83 | <title>Traffic models and admission control for VBR video</title>. , 1996, , . | | 0 |
| 84 | Video Outage Detection: Algorithm and evaluation. , 2009, , . | | 0 |
| 85 | Viewing Experience Model of First-Person Videos. Journal of Imaging, 2018, 4, 106. | 1.7 | 0 |
| 86 | STRATEGIES FOR QUALITY-AWARE VIDEO CONTENT ANALYTICS. , 2018, , . | | 0 |
| 87 | A PERCEPTUALLY-INSPIRED 2D VIDEO STABILITY ESTIMATOR. , 2018, , . | | 0 |
| 88 | Video Quality Temporal Pooling using a Visibility Measure. , 2019, , . | | 0 |
| 89 | Traffic Modelling for Broadband Services. , 1994, , 1-8. | | 0 |