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This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2020, and items from previous years that were commented upon or corrected in 2020. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

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- Zero-Shot Image Dehazing. *Li, B.*, +, *TIP 2020 8457-8466*
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- Multiresolution Localization With Temporal Scanning for Super-Resolution Diffuse Optical Imaging of Fluorescence. *Bentz, B.Z.*, +, *TIP 2020 830-842*
- OFF-eNET: An Optimally Fused Fully End-to-End Network for Automatic Dense Volumetric 3D Intracranial Blood Vessels Segmentation. *Nazir, A.*, +, *TIP 2020 7192-7202*
- Newton method**
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- Collaborative Unsupervised Domain Adaptation for Medical Image Diagnosis. *Zhang, Y.*, +, *TIP 2020 7834-7844*
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- Normal distribution**
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- A Multi-Scale Spatial-Temporal Attention Model for Person Re-Identification in Videos. *Zhang, W.*, +, *TIP 2020 3365-3373*
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- Background Noise Filtering and Distribution Dividing for Crowd Counting. *Mo, H.*, +, *TIP 2020 8199-8212*
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- Category-Aware Spatial Constraint for Weakly Supervised Detection. *Shen, Y.*, +, *TIP 2020 843-858*
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- Combining Faster R-CNN and Model-Driven Clustering for Elongated Object Detection. *Fang, F.*, +, *TIP 2020 2052-2065*
- Compositional Attention Networks With Two-Stream Fusion for Video Question Answering. *Yu, T.*, +, *TIP 2020 1204-1218*
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- Corrections to “Pothole Detection Based on Disparity Transformation and Road Surface Modeling” [Aug 19 897-908]. *Fan, R.*, +, *TIP 2020 3091*
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- Degraded Image Semantic Segmentation With Dense-Gram Networks. *Guo, D.*, +, *TIP 2020 782-795*
- DID: Disentangling-Imprinting-Distilling for Continuous Low-Shot Detection. *Chen, X.*, +, *TIP 2020 7765-7778*
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- Image Feature Correspondence Selection: A Comparative Study and a New Contribution. *Zhao, C.*, +, *TIP 2020 3506-3519*
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- Improved Robust Video Saliency Detection Based on Long-Term Spatial-Temporal Information. *Chen, C.*, +, *TIP 2020 1090-1100*
- Improved Saliency Detection in RGB-D Images Using Two-Phase Depth Estimation and Selective Deep Fusion. *Chen, C.*, +, *TIP 2020 4296-4307*
- Improving the Harmony of the Composite Image by Spatial-Separated Attention Module. *Cun, X.*, +, *TIP 2020 4759-4771*
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- Multimodal Target Detection by Sparse Coding: Application to Paint Loss Detection in Paintings. *Huang, S.*, +, *TIP 2020 7681-7696*
- MVSNet++: Learning Depth-Based Attention Pyramid Features for Multi-View Stereo. *Chen, P.*, +, *TIP 2020 7261-7273*
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- Robust Facial Landmark Detection via Heatmap-Offset Regression. *Zhang, J.*, +, *TIP 2020 5050-5064*
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- SAFNet: A Semi-Anchor-Free Network With Enhanced Feature Pyramid for Object Detection. *Jin, Z.*, +, *TIP 2020 9445-9457*
- Saliency Detection via Depth-Induced Cellular Automata on Light Field. *Piao, Y.*, +, *TIP 2020 1879-1889*
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- Semantics-Preserving Graph Propagation for Zero-Shot Object Detection. *Yan, C.*, +, *TIP 2020 8163-8176*
- Semi-Supervised Human Detection via Region Proposal Networks Aided by Verification. *Wu, S.*, +, *TIP 2020 1562-1574*
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- Spatio-Temporal Memory Attention for Image Captioning. *Ji, J.*, +, *TIP 2020 7615-7628*
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- TNLRs: Target-Aware Non-Local Low-Rank Modeling With Saliency Filtering Regularization for Infrared Small Target Detection. *Zhu, H.*, +, *TIP 2020 9546-9558*
- Towards Weakly-Supervised Focus Region Detection via Recurrent Constraint Network. *Zhao, W.*, +, *TIP 2020 1356-1367*
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- Visual Saliency Detection via Kernelized Subspace Ranking With Active Learning. *Zhang, L.*, +, *TIP 2020 2258-2270*
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- A Comparative Review of Recent Kinect-Based Action Recognition Algorithms. *Wang, L.*, +, *TIP 2020 15-28*
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- Optical beam splitters**
- Compressive Spectral Light Field Image Reconstruction via Online Tensor Representation. *Marquez, M.*, +, *TIP 2020 3558-3568*
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- Simultaneous Surface Reflectance and Fluorescence Spectra Estimation. *Blasinski, H.*, +, *TIP 2020 8791-8804*
- Wavelet-Based Spectral-Spatial Transforms for CFA-Sampled Raw Camera Image Compression. *Suzuki, T.*, *TIP 2020 433-444*
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- Imaging With SPADs and DMDs: Seeing Through Diffraction-Photons. *Alsolami, I.*, +, *TIP 2020 1440-1449*
- Phase Recovery Guarantees From Designed Coded Diffraction Patterns in Optical Imaging. *Guerrero, A.*, +, *TIP 2020 5687-5697*
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- Super-Resolution Phase Retrieval From Designed Coded Diffraction Patterns. *Bacca, J.*, +, *TIP 2020 2598-2609*
- Optical information processing**
- Learning Non-Local Spatial Correlations To Restore Sparse 3D Single-Photon Data. *Chen, S.*, +, *TIP 2020 3119-3131*
- Optical-and-Radar Image Fusion for Dynamic Estimation of Spin Satellites. *Zhou, Y.*, +, *TIP 2020 2963-2976*
- Optical microscopy**
- A Recurrent Neural Network for Particle Tracking in Microscopy Images Using Future Information, Track Hypotheses, and Multiple Detections. *Spilger, R.*, +, *TIP 2020 3681-3694*
- Parameter-Free Gaussian PSF Model for Extended Depth of Field in Bright-field Microscopy. *Zhou, X.*, +, *TIP 2020 3227-3238*
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- Optical radar**
- Fast Online 3D Reconstruction of Dynamic Scenes From Individual Single-Photon Detection Events. *Altmann, Y.*, +, *TIP 2020 2666-2675*
- Illumination Invariant Hyperspectral Image Unmixing Based on a Digital Surface Model. *Uezato, T.*, +, *TIP 2020 3652-3664*
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X

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