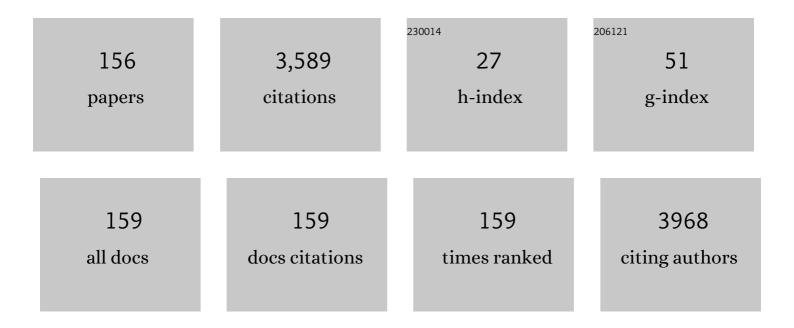
Changming Sun

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
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| 1 | Efficient corner detection based on corner enhancement filters. , 2022, 122, 103364. | | 15 |
| 2 | Complex shearlets and rotary phase congruence tensor for corner detection. Pattern Recognition, 2022, 128, 108606. | 5.1 | 2 |
| 3 | ASRSNet: Automatic Salient Region Selection Network forÂFew-Shot Fine-Grained Image Classification. Lecture Notes in Computer Science, 2022, , 627-638. | 1.0 | 1 |
| 4 | EOCSA: Predicting prognosis of Epithelial ovarian cancer with whole slide histopathological images. Expert Systems With Applications, 2022, 206, 117643. | 4.4 | 8 |
| 5 | Improving Monocular Visual Odometry Using Learned Depth. IEEE Transactions on Robotics, 2022, 38, 3173-3186. | 7.3 | 5 |
| 6 | Recent advances on image edge detection: A comprehensive review. Neurocomputing, 2022, 503, 259-271. | 3.5 | 55 |
| 7 | Cascade knowledge diffusion network for skin lesion diagnosis and segmentation. Applied Soft Computing Journal, 2021, 99, 106881. | 4.1 | 57 |
| 8 | Robust Tensor Decomposition for Image Representation Based on Generalized Correntropy. IEEE Transactions on Image Processing, 2021, 30, 150-162. | 6.0 | 6 |
| 9 | Corner Detection Using Second-Order Generalized Gaussian Directional Derivative Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1213-1224. | 9.7 | 27 |
| 10 | Context-Enhanced Representation Learning for Single Image Deraining. International Journal of Computer Vision, 2021, 129, 1650-1674. | 10.9 | 19 |
| 11 | Free-form tumor synthesis in computed tomography images via richer generative adversarial network. Knowledge-Based Systems, 2021, 218, 106753. | 4.0 | 27 |
| 12 | Robust Blood Cell Image Segmentation Method Based on Neural Ordinary Differential Equations. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-11. | 0.7 | 6 |
| 13 | Domain adaptation based self-correction model for COVID-19 infection segmentation in CT images. Expert Systems With Applications, 2021, 176, 114848. | 4.4 | 34 |
| 14 | Attentive Feature Refinement Network for Single Rainy Image Restoration. IEEE Transactions on Image Processing, 2021, 30, 3734-3747. | 6.0 | 14 |
| 15 | A Novel Decision Mechanism for Image Edge Detection. Lecture Notes in Computer Science, 2021, , 274-287. | 1.0 | 2 |
| 16 | Disentangled Representation Learning and Enhancement Network for Single Image De-Raining. , 2021, , . | | 1 |
| 17 | Deep learning based stereo cost aggregation on a small dataset. , 2021, , . | | 0 |
| 18 | Multi-Weighted Co-Occurrence Descriptor Encoding for Vein Recognition. IEEE Transactions on Information Forensics and Security, 2020, 15, 375-390. | 4.5 | 22 |

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| 19 | Learning a Compact Vein Discrimination Model With GANerated Samples. IEEE Transactions on Information Forensics and Security, 2020, 15, 635-650. | 4.5 | 9 |
| 20 | Corner Detection Using Multi-directional Structure Tensor with Multiple Scales. International Journal of Computer Vision, 2020, 128, 438-459. | 10.9 | 37 |
| 21 | Fusing convolutional neural network features with hand-crafted features for osteoporosis diagnoses. Neurocomputing, 2020, 385, 300-309. | 3.5 | 26 |
| 22 | A robust matching pursuit algorithm using information theoretic learning. Pattern Recognition, 2020, 107, 107415. | 5.1 | 4 |
| 23 | Deep learning based HEp-2 image classification: A comprehensive review. Medical Image Analysis, 2020, 65, 101764. | 7.0 | 26 |
| 24 | Cascaded Attention Guidance Network for Single Rainy Image Restoration. IEEE Transactions on Image Processing, 2020, 29, 9190-9203. | 6.0 | 10 |
| 25 | Fast Corner Detection Using Approximate Form of Second-Order Gaussian Directional Derivative. IEEE Access, 2020, 8, 194092-194104. | 2.6 | 4 |
| 26 | RA-UNet: A Hybrid Deep Attention-Aware Network to Extract Liver and Tumor in CT Scans. Frontiers in Bioengineering and Biotechnology, 2020, 8, 605132. | 2.0 | 187 |
| 27 | Multi-Scale Anisotropic Gaussian Kernels for Image Edge Detection. IEEE Access, 2020, 8, 1803-1812. | 2.6 | 11 |
| 28 | Corner detection based on shearlet transform and multi-directional structure tensor. Pattern Recognition, 2020, 103, 107299. | 5.1 | 20 |
| 29 | Robust Cell Image Segmentation via Improved Markov Random Field Based on a Chinese Restaurant Process Model. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2020, 24, 963-971. | 0.5 | 2 |
| 30 | Instance-Aware Embedding for Point Cloud Instance Segmentation. Lecture Notes in Computer Science, 2020, , 255-270. | 1.0 | 12 |
| 31 | ReDro: Efficiently Learning Large-Sized SPD Visual Representation. Lecture Notes in Computer Science, 2020, , 1-17. | 1.0 | 7 |
| 32 | Mutual Guidance-Based Saliency Propagation for Infrared Pedestrian Images. IEEE Access, 2019, 7, 113355-113371. | 2.6 | 4 |
| 33 | Chord Bunch Walks for Recognizing Naturally Self-Overlapped and Compound Leaves. IEEE Transactions on Image Processing, 2019, 28, 5963-5976. | 6.0 | 18 |
| 34 | Supervised Brain Tumor Segmentation Based on Gradient and Context-Sensitive Features. Frontiers in Neuroscience, 2019, 13, 144. | 1.4 | 29 |
| 35 | Discrete Curvature Representations for Noise Robust Image Corner Detection. IEEE Transactions on Image Processing, 2019, 28, 4444-4459. | 6.0 | 33 |
| 36 | Robust Retinal Image Enhancement via Dual-Tree Complex Wavelet Transform and Morphology-Based Method. IEEE Access, 2019, 7, 47303-47316. | 2.6 | 32 |

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| 37 | Knowledge Adaptation for Efficient Semantic Segmentation. , 2019, , . | | 127 |
| 38 | A Novel Color-Texture Descriptor Based on Local Histograms for Image Segmentation. IEEE Access, 2019, 7, 160683-160695. | 2.6 | 10 |
| 39 | Kernel Mean P Power Error Loss for Robust Two-Dimensional Singular Value Decomposition. , 2019, , . | | 1 |
| 40 | Robust Sparse Learning Based on Kernel Non-Second Order Minimization. , 2019, , . | | 1 |
| 41 | Design of a Clinical Decision Support System for Predicting Erectile Dysfunction in Men Using NHIRD Dataset. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2127-2137. | 3.9 | 18 |
| 42 | Cell Segmentation Based on FOPSO Combined With Shape Information Improved Intuitionistic FCM. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 449-459. | 3.9 | 15 |
| 43 | ERL-Net: Entangled Representation Learning for Single Image De-Raining. , 2019, , . | | 45 |
| 44 | Foreground Object Image Masking via EPI and Edge Detection for Photogrammetry with Static Background. Lecture Notes in Computer Science, 2019, , 345-357. | 1.0 | 0 |
| 45 | Multi-Modal Ship Target Image Smoothing Based on Adaptive Mean Shift. IEEE Access, 2018, 6, 12573-12586. | 2.6 | 9 |
| 46 | Refinement of LiDAR point clouds using a super voxel based approach. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 143, 213-221. | 4.9 | 25 |
| 47 | Matching Pursuit Based on Kernel Non-Second Order Minimization. , 2018, , . | | 0 |
| 48 | An End-to-End TextSpotter with Explicit Alignment and Attention. , 2018, , . | | 146 |
| 49 | Fish Counting and Measurement. , 2018, , 1500-1516. | | Ο |
| 50 | Fog Density Estimation and Image Defogging Based on Surrogate Modeling for Optical Depth. IEEE Transactions on Image Processing, 2017, 26, 3397-3409. | 6.0 | 29 |
| 51 | Image dehazing using adaptive bi-channel priors on superpixels. Computer Vision and Image Understanding, 2017, 165, 17-32. | 3.0 | 50 |
| 52 | Efficient Message Passing Methods With Fully Connected Models for Early Vision. IEEE Transactions on Image Processing, 2017, 26, 5994-6005. | 6.0 | 0 |
| 53 | Can Walking and Measuring Along Chord Bunches Better Describe Leaf Shapes?. , 2017, , . | | 17 |
| 54 | Robust Multi-Frame Adaptive Optics Image Restoration Algorithm Using Maximum Likelihood Estimation with Poisson Statistics. Sensors, 2017, 17, 785. | 2.1 | 8 |

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| 55 | Detection of tubule boundaries based on circular shortest path and polarâ€ŧransformation of arbitrary shapes. Journal of Microscopy, 2016, 264, 127-142. | 0.8 | 24 |
| 56 | A Local Scale Selection Scheme for Multiscale Area Integral Invariants. , 2016, , . | | 0 |
| 57 | Automated Image Analysis on Insect Soups. , 2016, , . | | 6 |
| 58 | A robust method for high-precision quantification of the complex three-dimensional vasculatures acquired by X-ray microtomography. Journal of Synchrotron Radiation, 2016, 23, 1216-1226. | 1.0 | 9 |
| 59 | Automated vein detection for drill core analysis by fusion of hyperspectral and visible image data. , 2016, , . | | 3 |
| 60 | Semi-automated infrared simulation on real urban scenes based on multi-view images. Optics Express, 2016, 24, 11345. | 1.7 | 10 |
| 61 | Robust tensor factorization using maximum correntropy criterion. , 2016, , . | | 2 |
| 62 | Stereo matching based on multi-direction polynomial model. Signal Processing: Image Communication, 2016, 44, 44-56. | 1.8 | 4 |
| 63 | Orientation-guided geodesic weighting for PatchMatch-based stereo matching. Information Sciences, 2016, 334-335, 293-306. | 4.0 | 1 |
| 64 | Infrared ship target segmentation through integration of multiple feature maps. Image and Vision Computing, 2016, 48-49, 14-25. | 2.7 | 17 |
| 65 | Edge-Aware Filtering with Local Polynomial Approximation and Rectangle-Based Weighting. IEEE Transactions on Cybernetics, 2016, 46, 2693-2705. | 6.2 | 5 |
| 66 | Guided image completion by confidence propagation. Pattern Recognition, 2016, 50, 210-222. | 5.1 | 5 |
| 67 | STEREO VISION TECHNOLOGIES FOR CHINA'S LUNAR ROVER EXPLORATION MISSION. International Journal of Robotics and Automation, 2016, 31, . | 0.1 | 3 |
| 68 | Automatic Fish Recognition and Counting in Video Footage of Fishery Operations. , 2015, , . | | 6 |
| 69 | Intelligent tuna recognition for fisheries monitoring. , 2015, , . | | 1 |
| 70 | Clustered nuclei splitting via curvature information and grayâ€scale distance transform. Journal of Microscopy, 2015, 259, 36-52. | 0.8 | 6 |
| 71 | A Modified Distance Regularized Level Set Model for Liver Segmentation from CT Images. Signal and Image Processing: an International Journal, 2015, 6, 01-11. | 0.2 | 3 |
| 72 | Crowdsourcing the creation of image segmentation algorithms for connectomics. Frontiers in Neuroanatomy, 2015, 9, 142. | 0.9 | 248 |

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| 73 | Descent image based landing area terrain reconstruction technology for lunar landing mission. Imaging Science Journal, 2015, 63, 440-446. | 0.2 | 3 |
| 74 | Finding splitting lines for touching cell nuclei with a shortest path algorithm. Computers in Biology and Medicine, 2015, 63, 277-286. | 3.9 | 8 |
| 75 | Feature matching in stereo images encouraging uniform spatial distribution. Pattern Recognition, 2015, 48, 2530-2542. | 5.1 | 24 |
| 76 | Towards Automated Quantitative Vasculature Understanding via Ultra High-Resolution Imagery. Advances in Experimental Medicine and Biology, 2015, 823, 177-189. | 0.8 | 2 |
| 77 | Cloud Based Toolbox for Image Analysis, Processing and Reconstruction Tasks. Advances in Experimental Medicine and Biology, 2015, 823, 191-205. | 0.8 | 13 |
| 78 | Global Threshold and Region-Based Active Contour Model for Accurate Image Segmentation. Signal and Image Processing: an International Journal, 2014, 5, 01-11. | 0.2 | 8 |
| 79 | A Modular Learning Approach for Fish Counting and Measurement Using Stereo Baited Remote Underwater Video. , 2014, , . | | 7 |
| 80 | Multipoint Filtering with Local Polynomial Approximation and Range Guidance. , 2014, , . | | 23 |
| 81 | Iterative infrared ship target segmentation based on multiple features. Pattern Recognition, 2014, 47, 2839-2852. | 5.1 | 55 |
| 82 | Stereo matching using cost volume watershed and region merging. Signal Processing: Image Communication, 2014, 29, 1232-1244. | 1.8 | 7 |
| 83 | Evaluation and Comparison of Current Fetal Ultrasound Image Segmentation Methods for Biometric Measurements: A Grand Challenge. IEEE Transactions on Medical Imaging, 2014, 33, 797-813. | 5.4 | 137 |
| 84 | A novel method for dendritic spines detection based on directional morphological filter and shortest path. Computerized Medical Imaging and Graphics, 2014, 38, 793-802. | 3.5 | 9 |
| 85 | A new method for linear feature and junction enhancement in 2D images based on morphological operation, oriented anisotropic Gaussian function and Hessian information. Pattern Recognition, 2014, 47, 3193-3208. | 5.1 | 35 |
| 86 | Soft Cost Aggregation with Multi-resolution Fusion. Lecture Notes in Computer Science, 2014, , 17-32. | 1.0 | 15 |
| 87 | A Novel Global Threshold-Based Active Contour Model. , 2014, , . | | 1 |
| 88 | Segmentation of clustered nuclei based on concave curve expansion. Journal of Microscopy, 2013, 251, 57-67. | 0.8 | 23 |
| 89 | Automatic nuclear bud detection using ellipse fitting, moving sticks or topâ€hat transformation. Journal of Microscopy, 2013, 252, 122-134. | 0.8 | 6 |
| 90 | Cross Image Inference Scheme for Stereo Matching. Lecture Notes in Computer Science, 2013, , 217-230. | 1.0 | 1 |

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| 91 | Tubule detection in testis images using boundary weighting and circular shortest path. , 2013, 2013, 3319-22. | | 1 |
| 92 | Trinocular stereo image rectification in closed-form only using fundamental matrices. , 2013, , . | | 1 |
| 93 | Applications of heterogeneous computing in computational and simulation science. International Journal of Computational Science and Engineering, 2013, 8, 240. | 0.4 | 4 |
| 94 | Shortest path based splitting line finding for touching cells. AIP Conference Proceedings, 2013, , . | 0.3 | 2 |
| 95 | Preface: 2013 International Symposium on Computational Models for Life Sciences. , 2013, , . | | 0 |
| 96 | Dendritic spines detection based on directional morphological filter and shortest path. , 2012, 2012, 5343-6. | | 0 |
| 97 | Tree structural watershed for stereo matching. , 2012, , . | | 1 |
| 98 | Automating the quantification of membrane proteins under confocal microscopy. , 2012, , . | | 2 |
| 99 | Segmentation of clustered nuclei based on curvature weighting. , 2012, , . | | 12 |
| 100 | Linear feature enhancement based on morphological operation and Gabor function. , 2012, , . | | 2 |
| 101 | Feature Correspondence with Even Distribution. , 2012, , . | | 2 |
| 102 | Closed-form stereo image rectification. , 2012, , . | | 5 |
| 103 | Embedded Voxel Colouring with Adaptive Threshold Selection Using Globally Minimal Surfaces. International Journal of Computer Vision, 2012, 99, 215-231. | 10.9 | 7 |
| 104 | Junction detection for linear structures based on Hessian, correlation and shape information. Pattern Recognition, 2012, 45, 3695-3706. | 5.1 | 43 |
| 105 | Applications of Heterogeneous Computing in Computational and Simulation Science. , 2011, , . | | 3 |
| 106 | High-Throughput Detection of Linear Features: Selected Applications in Biological Imaging. Biological and Medical Physics Series, 2011, , 167-191. | 0.3 | 1 |
| 107 | Clustered Nuclei Splitting Using Curvature Information. , 2011, , . | | 1 |
| 108 | Identifying Weak Linear Features with the "Coalescing Shortest Path Image Transform― Microscopy and Microanalysis, 2011, 17, 911-914. | 0.2 | 1 |

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| 109 | Junction Detection for Linear Structures. , 2011, , . | | 1 |
| 110 | DroplIT, an improved image analysis method for droplet identification in high-throughput crystallization trials. Journal of Applied Crystallography, 2010, 43, 1548-1552. | 1.9 | 10 |
| 111 | Automated Detection of Nucleoplasmic Bridges for DNA Damage Scoring in Binucleated Cells. , 2010, , . | | 0 |
| 112 | Mosaicing of microscope images in the presence of large areas with insufficient information content. , 2010, , . | | 0 |
| 113 | Detection of Nuclear Buds Based on Ellipse Fitting. , 2010, , . | | 3 |
| 114 | HCA-Vision: Automated Neurite Outgrowth Analysis. Journal of Biomolecular Screening, 2010, 15, 1165-1170. | 2.6 | 46 |
| 115 | Linear Feature Detection on GPUs. , 2010, , . | | 6 |
| 116 | Automated Feature Weighting in Fuzzy Declustering-based Vector Quantization. , 2010, , . | | 2 |
| 117 | Stereoscopic flatbed scanner. Journal of Electronic Imaging, 2009, 18, 013002. | 0.5 | 0 |
| 118 | Fast linear feature detection using multiple directional nonâ€maximum suppression. Journal of Microscopy, 2009, 234, 147-157. | 0.8 | 63 |
| 119 | Membrane boundary extraction using circular multiple paths. Pattern Recognition, 2009, 42, 523-530. | 5.1 | 14 |
| 120 | Splitting touching cells based on concave points and ellipse fitting. Pattern Recognition, 2009, 42, 2434-2446. | 5.1 | 229 |
| 121 | Segmentation and tracking individual Pseudomonas aeruginosa bacteria in dense populations of motile cells. , 2009, , . | | 12 |
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| 124 | Touching Cells Splitting by Using Concave Points and Ellipse Fitting. , 2008, , . | | 11 |
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| 127 | Automated analysis of neurite branching in cultured cortical neurons using HCAâ€Vision. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 889-895. | 1.1 | 62 |
| 128 | Thickness measurement and crease detection of wheat grains using stereo vision. Pattern Recognition Letters, 2007, 28, 1501-1508. | 2.6 | 17 |
| 129 | Mosaicing of microscope images with global geometric and radiometric corrections. Journal of Microscopy, 2006, 224, 158-165. | 0.8 | 41 |
| 130 | Measuring the distance of vegetation from powerlines using stereo vision. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 60, 269-283. | 4.9 | 58 |
| 131 | Moving average algorithms for diamond, hexagon, and general polygonal shaped window operations. Pattern Recognition Letters, 2006, 27, 556-566. | 2.6 | 8 |
| 132 | Fast Linear Feature Detection Using Multiple Directional Non-Maximum Suppression. , 2006, , . | | 7 |
| 133 | Multiple paths extraction in images using a constrained expanded trellis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1923-1933. | 9.7 | 25 |
| 134 | An energy minimisation approach to stereo-temporal dense reconstruction. , 2004, , . | | 28 |
| 135 | Fast Panoramic Stereo Matching Using Cylindrical Maximum Surfaces. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 760-765. | 5.5 | 19 |
| 136 | Circular shortest path in images. Pattern Recognition, 2003, 36, 709-719. | 5.1 | 72 |
| 137 | Circular shortest paths by branch and bound. Pattern Recognition, 2003, 36, 2513-2520. | 5.1 | 39 |
| 138 | Uncalibrated three-view image rectification. Image and Vision Computing, 2003, 21, 259-269. | 2.7 | 22 |
| 139 | Fast optical flow using 3D shortest path techniques. Image and Vision Computing, 2002, 20, 981-991. | 2.7 | 45 |
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| 141 | De-interlacing of video images using a shortest path technique. IEEE Transactions on Consumer Electronics, 2001, 47, 225-230. | 3.0 | 17 |
| 142 | Fast Algorithm for Local Statistics Calculation for N -Dimensional Images. Real Time Imaging, 2001, 7, 519-527. | 1.6 | 12 |
| 143 | Automatic segmentation of fiducial marks using attribute-based mathematical morphology. Journal of Electronic Imaging, 2001, 10, 560. | 0.5 | 1 |
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| 145 | Fast Reflectional Symmetry Detection Using Orientation Histograms. Real Time Imaging, 1999, 5, 63-74. | 1.6 | 51 |
| 146 | Knowledge-based method for segmentation and analysis of lung boundaries in chest X-ray images. Computerized Medical Imaging and Graphics, 1998, 22, 463-477. | 3.5 | 85 |
| 147 | Fast recovery of rotational symmetry parameters using gradient orientation. Optical Engineering, 1997, 36, 1073. | 0.5 | 7 |
| 148 | 3D symmetry detection using the extended Gaussian image. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1997, 19, 164-168. | 9.7 | 178 |
| 149 | Symmetry detection using gradient information. Pattern Recognition Letters, 1995, 16, 987-996. | 2.6 | 50 |
| 150 | Robust Estimation for Motion Parameters. , 1994, , . | | 0 |
| 151 | Relationship between hovering depth and viewing position. , 1992, 1666, 483. | | 0 |
| 152 | Use of vision in dispensing control and inspection of adhesives. Robotica, 1991, 9, 371-377. | 1.3 | 2 |
| 153 | Skew and slant correction for document images using gradient direction. , 0, , . | | 33 |
| 154 | Algorithm performance contest. , 0, , . | | 15 |
| 155 | Rectangular subregioning and 3-D maximum-surface techniques for fast stereo matching. , 0, , . | | 2 |
| 156 | Fish Counting and Measurement. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 41-57. | 0.3 | 1 |