

Antonio Torralba

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

36,095
citations

76196

40
h-index

189595

50
g-index

85
all docs

85
docs citations

85
times ranked

20882
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Next-generation deep learning based on simulators and synthetic data. Trends in Cognitive Sciences, 2022, 26, 174-187. | 4.0 | 40 |
| 2 | Self-powered sensing systems with learning capability. Joule, 2022, 6, 1475-1500. | 11.7 | 38 |
| 3 | Learning human–environment interactions using conformal tactile textiles. Nature Electronics, 2021, 4, 193-201. | 13.1 | 172 |
| 4 | DatasetGAN: Efficient Labeled Data Factory with Minimal Human Effort. , 2021, , . | | 101 |
| 5 | Intelligent Carpet: Inferring 3D Human Pose from Tactile Signals. , 2021, , . | | 29 |
| 6 | Dynamic Modeling of Hand-Object Interactions via Tactile Sensing. , 2021, , . | | 9 |
| 7 | What You Can Learn by Staring at a Blank Wall. , 2021, , . | | 10 |
| 8 | Scaling up instance annotation via label propagation. , 2021, , . | | 3 |
| 9 | Understanding the role of individual units in a deep neural network. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30071-30078. | 3.3 | 176 |
| 10 | Interpreting Deep Visual Representations via Network Dissection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2131-2145. | 9.7 | 140 |
| 11 | Learning the signatures of the human grasp using a scalable tactile glove. Nature, 2019, 569, 698-702. | 13.7 | 697 |
| 12 | Semantic Understanding of Scenes Through the ADE20K Dataset. International Journal of Computer Vision, 2019, 127, 302-321. | 10.9 | 649 |
| 13 | What Do Different Evaluation Metrics Tell Us About Saliency Models?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 740-757. | 9.7 | 418 |
| 14 | 3D Interpreter Networks for Viewer-Centered Wireframe Modeling. International Journal of Computer Vision, 2018, 126, 1009-1026. | 10.9 | 17 |
| 15 | Places: A 10 Million Image Database for Scene Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1452-1464. | 9.7 | 1,833 |
| 16 | Learning Sight from Sound: Ambient Sound Provides Supervision for Visual Learning. International Journal of Computer Vision, 2018, 126, 1120-1137. | 10.9 | 40 |
| 17 | Revealing hidden scenes by photon-efficient occlusion-based opportunistic active imaging. Optics Express, 2018, 26, 9945. | 1.7 | 56 |
| 18 | Exploiting Occlusion in Non-Line-of-Sight Active Imaging. IEEE Transactions on Computational Imaging, 2018, 4, 419-431. | 2.6 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Interpretable Basis Decomposition for Visual Explanation. Lecture Notes in Computer Science, 2018, , 122-138. | 1.0 | 114 |
| 20 | Interpreting Visual Representations of Neural Networks via Network Dissection. Journal of Vision, 2018, 18, 1244. | 0.1 | 10 |
| 21 | Network Dissection: Quantifying Interpretability of Deep Visual Representations. , 2017, , . | | 593 |
| 22 | Scene Parsing through ADE20K Dataset. , 2017, , . | | 1,396 |
| 23 | Open Vocabulary Scene Parsing. , 2017, , . | | 49 |
| 24 | Turning Corners into Cameras: Principles and Methods. , 2017, , . | | 82 |
| 25 | SeglCP: Integrated deep semantic segmentation and pose estimation. , 2017, , . | | 79 |
| 26 | Learning Deep Features for Discriminative Localization. , 2016, , . | | 5,267 |
| 27 | Visually Indicated Sounds. , 2016, , . | | 197 |
| 28 | Visualizing Object Detection Features. International Journal of Computer Vision, 2016, 119, 145-158. | 10.9 | 26 |
| 29 | SUN Database: Exploring a Large Collection of Scene Categories. International Journal of Computer Vision, 2016, 119, 3-22. | 10.9 | 208 |
| 30 | Nonparametric Scene Parsing via Label Transfer. , 2016, , 207-236. | | 3 |
| 31 | SIFT Flow: Dense Correspondence Across Scenes and Its Applications. , 2016, , 15-49. | | 28 |
| 32 | Ambient Sound Provides Supervision for Visual Learning. Lecture Notes in Computer Science, 2016, , 801-816. | 1.0 | 159 |
| 33 | Intrinsic and extrinsic effects on image memorability. Vision Research, 2015, 116, 165-178. | 0.7 | 164 |
| 34 | Looking Beyond the Visible Scene. , 2014, , . | | 52 |
| 35 | What Makes a Photograph Memorable?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1469-1482. | 9.7 | 191 |
| 36 | Accidental Pinhole and Pinspeck Cameras. International Journal of Computer Vision, 2014, 110, 92-112. | 10.9 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | FPM: Fine Pose Parts-Based Model with 3D CAD Models. Lecture Notes in Computer Science, 2014, , 478-493. | 1.0 | 43 |
| 38 | A boosting approach for the simultaneous detection and segmentation of generic objects. Pattern Recognition Letters, 2013, 34, 1490-1498. | 2.6 | 3 |
| 39 | HOGgles: Visualizing Object Detection Features. , 2013, , . | | 182 |
| 40 | Modifying the Memorability of Face Photographs. , 2013, , . | | 76 |
| 41 | SUN3D: A Database of Big Spaces Reconstructed Using SfM and Object Labels. , 2013, , . | | 482 |
| 42 | Parsing IKEA Objects: Fine Pose Estimation. , 2013, , . | | 163 |
| 43 | Recognizing scene viewpoint using panoramic place representation. , 2012, , . | | 75 |
| 44 | Accidental pinhole and pinspeck cameras: Revealing the scene outside the picture. , 2012, , . | | 22 |
| 45 | Image memorability and visual inception. , 2012, , . | | 32 |
| 46 | Context models and out-of-context objects. Pattern Recognition Letters, 2012, 33, 853-862. | 2.6 | 85 |
| 47 | A Tree-Based Context Model for Object Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 240-252. | 9.7 | 109 |
| 48 | Undoing the Damage of Dataset Bias. Lecture Notes in Computer Science, 2012, , 158-171. | 1.0 | 227 |
| 49 | Unbiased look at dataset bias. , 2011, , . | | 1,227 |
| 50 | What makes an image memorable?. , 2011, , . | | 264 |
| 51 | Nonparametric Scene Parsing via Label Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2368-2382. | 9.7 | 278 |
| 52 | Fixations on low-resolution images. Journal of Vision, 2011, 11, 14-14. | 0.1 | 64 |
| 53 | How Little Do We Need for 3-D Shape Perception?. Perception, 2011, 40, 257-271. | 0.5 | 4 |
| 54 | Simultaneous detection and segmentation for generic objects. , 2011, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Evaluation of image features using a photorealistic virtual world. , 2011, , . | | 51 |
| 56 | Infinite Images: Creating and Exploring a Large Photorealistic Virtual Space. Proceedings of the IEEE, 2010, 98, 1391-1407. | 16.4 | 19 |
| 57 | LabelMe: Online Image Annotation and Applications. Proceedings of the IEEE, 2010, 98, 1467-1484. | 16.4 | 213 |
| 58 | SUN database: Large-scale scene recognition from abbey to zoo. , 2010, , . | | 1,661 |
| 59 | Semantic Label Sharing for Learning with Many Categories. Lecture Notes in Computer Science, 2010, , 762-775. | 1.0 | 58 |
| 60 | A Data-Driven Approach for Event Prediction. Lecture Notes in Computer Science, 2010, , 707-720. | 1.0 | 44 |
| 61 | Building a database of 3D scenes from user annotations. , 2009, , . | | 59 |
| 62 | Modelling search for people in 900 scenes: A combined source model of eye guidance. Visual Cognition, 2009, 17, 945-978. | 0.9 | 271 |
| 63 | How many pixels make an image?. Visual Neuroscience, 2009, 26, 123-131. | 0.5 | 99 |
| 64 | Recognizing indoor scenes. , 2009, , . | | 898 |
| 65 | Nonparametric scene parsing: Label transfer via dense scene alignment. , 2009, , . | | 166 |
| 66 | Describing Visual Scenes Using Transformed Objects and Parts. International Journal of Computer Vision, 2008, 77, 291-330. | 10.9 | 122 |
| 67 | LabelMe: A Database and Web-Based Tool for Image Annotation. International Journal of Computer Vision, 2008, 77, 157-173. | 10.9 | 2,723 |
| 68 | SIFT Flow: Dense Correspondence across Different Scenes. Lecture Notes in Computer Science, 2008, , 28-42. | 1.0 | 311 |
| 69 | Small codes and large image databases for recognition. , 2008, , . | | 483 |
| 70 | 80 Million Tiny Images: A Large Data Set for Nonparametric Object and Scene Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1958-1970. | 9.7 | 1,376 |
| 71 | Creating and exploring a large photorealistic virtual space. , 2008, , . | | 39 |
| 72 | The role of context in object recognition. Trends in Cognitive Sciences, 2007, 11, 520-527. | 4.0 | 770 |

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|----|---|------|-----------|
| 73 | Sharing Visual Features for Multiclass and Multiview Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 854-869. | 9.7 | 567 |
| 74 | Object Detection and Localization Using Local and Global Features. Lecture Notes in Computer Science, 2006, , 382-400. | 1.0 | 96 |
| 75 | Chapter 2 Building the gist of a scene: the role of global image features in recognition. Progress in Brain Research, 2006, 155, 23-36. | 0.9 | 1,059 |
| 76 | Contextual guidance of eye movements and attention in real-world scenes: The role of global features in object search.. Psychological Review, 2006, 113, 766-786. | 2.7 | 1,352 |
| 77 | Contextual Influences on Saliency. , 2005, , 586-592. | | 18 |
| 78 | Specular reflections and the perception of shape. Journal of Vision, 2004, 4, 10. | 0.1 | 249 |
| 79 | Contextual Priming for Object Detection. International Journal of Computer Vision, 2003, 53, 169-191. | 10.9 | 610 |
| 80 | Statistics of natural image categories. Network: Computation in Neural Systems, 2003, 14, 391-412. | 2.2 | 538 |
| 81 | Modeling global scene factors in attention. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1407. | 0.8 | 202 |
| 82 | Scene-Centered Description from Spatial Envelope Properties. Lecture Notes in Computer Science, 2002, , 263-272. | 1.0 | 46 |
| 83 | Modeling the Shape of the Scene: A Holistic Representation of the Spatial Envelope. International Journal of Computer Vision, 2001, 42, 145-175. | 10.9 | 5,192 |
| 84 | Statistics of natural image categories. , 0, . | | 261 |