

**Alexei Sorin**  
LIST OF PUBLICATIONS

**Journal Papers**

1. Zhang C., Dai W., Isoni V. Sourin A. (2023) Automated Anomaly Detection on the Surfaces by Dual Generative Networks with Limited Training Data, *IEEE Transactions on Industrial Informatics*.
2. Dai W., Erdt M., Sourin A. (2022) Self-supervised Pairing Image Clustering for Automated Quality Control. *The Visual Computer*, Springer, 38,1181-1194, 2022.
3. Ihar Volkau, Abdul Mujeeb, Wenting Dai, Marius Erdt and Alexei Sourin, (2022) The Impact of a Number of Samples on Unsupervised Feature Extraction, Based on Deep Learning for Detection Defects in Printed Circuit Boards, *Future Internet*, MDPI, doi.org/10.3390/fi14010008, 14, 8, 1-17.
4. Dai W., Erdt M., Sourin A. (2021) Detection and Segmentation of Image Anomalies based on Unsupervised Defect Reparation. *The Visual Computer*, Springer, 37, 3093-3102, 2021.
5. Chegini M., Bernard J., Cui J., Chegini F., Sourin A., Andrews K., Schreck T. (2020). Interactive Visual Labelling versus Active Learning: An Experimental, Comparison. *Frontiers of Information Technology & Electronic Engineering*, Springer.
6. Dai W., Mujeeb A., Erdt M., Sourin A. (2020). Soldering Defect Detection in Automatic Optical Inspection, *Advanced Engineering Information*, Elsevier, 43: 101004, 2020.
7. Mujeeb A., Dai W., Erdt M., Sourin A. (2019). One Class Based Feature Learning Approach for Defect Detection Using Deep Autoencoders. *Advanced Engineering Information*, Elsevier, 42: 100933, 2019.
8. Cui J., Sourin A. (2018). Mid-air Interaction with Optical Tracking for 3D Modeling, *Computers & Graphics*, Elsevier, v. 74, August, 1-11, <https://doi.org/10.1016/j.cag.2018.04.004>
9. Koa M.D., Johan H., Sourin A. (2018). Interactive Rendering of Translucent Materials under Area Lights using Voxels and Poisson Disk Samples, *Computers & Graphics*, Elsevier, 71(1): 101-112,
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12. Edelsbrunner J., Havemann S., Sourin A. and Fellner D. (2017) Procedural Modeling of Architecture with Round Geometry, *Computers & Graphics*, Elsevier, v.64: 14-25, DOI: 10.1016/j.cag.2017.01.00
13. Koa M.D., Johan H., Sourin A. (2017) Interactive Screenspace Fragment Rendering for Direct Illumination from Area Lights Using Gradient Aware Subdivision and Radial Basis Function Interpolation, *Computers & Graphics*, Elsevier, v.64: 37-50, DOI: 10.1016/j.cag.2017.01.003
14. Rasool S., Hou X.; Liu Y.; Sourin A., Sourina O. Neurocognitive Tools for Assessing Haptic Interaction with Tangible Images, *International Journal of Psychophysiology*, Elsevier, v. 108, p.147, 2016. DOI: 10.1016/j.ijpsycho.2016.07.427
15. Sourin A., Earnshaw R., Gavlilova M., Sourina O. Problems of Human-Computer Interaction in Cyberworlds. *Transactions on Computational Science*, Springer 2016. *Transactions on Computational Science XXVIII*, pp.1-22, DOI: 10.1007/978-3-662-53090-0\_1
16. Rasool S., Sourin A. Real-time haptic interaction with RGBD video streams. *The Visual Computer*, Springer, 2016, DOI 10.1007/s00371-016-1224-1
17. Edelsbrunner J., Krispel U., Havemann S., Sourin A., and Fellner D.W. Constructive Roofs from Solid Building Primitives. *Transactions on Computational Science*, Journal Subline, XXVI, LNCS 9550, pp. 17-40, 2016, DOI: 10.1007/978-3-662-49247-5\_2

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19. Rasool S., Sourin A. Image-driven Haptic Rendering, *Transactions on Computational Science XXIII*, Journal Subline LNCS 8490, 58-77, 2014.
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23. Rasool S., Sourin A. Image-driven virtual simulation of arthroscopy, *The Visual Computer*, Springer, 29(5): 333-355, 2013.
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2. Sourin A. *Computer Graphics: From a Small Formula to Cyberworlds*. 3<sup>d</sup> revised and amended edition, Pearson, 393 pages, 2012
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1. Sourin A. Shared Virtual and Augmented Environments. In *Research and Development in the Academy, Creative Industries and Applications*, ed. R.A. Earnshaw, Springer, pp. 49-63, ISBN 978-3-319-54080-1, 2017,
2. Sourin A. Virtual Campus of Nanyang Tehcnological University. in *Encyclopedia of Virtual Communities and Technologies*, ed. Subhasish Dasgupta, Information Science Publishing (Idea Group Inc.), ISBN 1591405637, pp. 478-481, 2005
3. Kulish V, Dhanjoo N, Lua AC, Loh KM, Sourin A, Merryn T. Chapter on Visualisation in *Human Respiration: Anatomy and Physiology. Mathematical Modeling, Numerical Simulation and Applications*, WITpress, 2005

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5. Sourin AI. Computer Graphics in Physics of Solid Body Data Processing. *Changing of A15 Superconductive Substance Properties under Radiation*, Energoatomizdat, Russia, pp. 111-117 (in Russian), 1986

### **Edited Books**

1. Takeshima Y., Sourin A., X, Rosenberger C., Sourina O., Miyata K. *Proceedings 2022 International Conference on Cyberworlds*. IEEE CS, 2022
2. Sourin A., Rosenberger C., Sourina O. *Proceedings 2021 International Conference on Cyberworlds*. IEEE CS, 2021
3. Sourin A., Charier C., Rosenberger C., Sourina O. *Proceedings 2020 International Conference on Cyberworlds*. IEEE CS, 2020
4. Sourin A., Sourina O., Rosenberger C., Erdt M. *Proceedings 2018 International Conference on Cyberworlds*. IEEE CS, 2018
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### **Editorials**

1. Alexei Sourin, Special Section on Cyberworlds, *The Visual Computer*, Springer, 2018
2. Alexei Sourin, Special Issue on Cyberworlds and Cybersecurity, *Transactions on Computational Science*, Springer, 2018
3. Alexei Sourin, Special Section on Cyberworlds, *The Visual Computer*, Springer, 2017
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1. Wang H. and Sourin A. *Feasibility Study on Interactive Geometry Sonification*. The 2022 International Conference on Cyberworlds, Kanazawa, Japan, 27-29 Sept 2022, IEEE CPS, 159-162, 2022.
2. Sourin A. *Making Shapes with Mathematics*. The 2022 International Conference on Cyberworlds, Kanazawa, Japan, 27-29 Sept 2022, IEEE CPS, 175-176, 2022.
3. Dai W., Erdt M. and Sourin A. *Anomaly Detection and Segmentation based on Defect Repaired Image Resynthesis*. The 2021 International Conference on Cyberworlds, Caen France, 28-30 Sept 2021, IEEE CPS, 109-112, 2021.
4. Siyi M and Sourin A. *Virtual Assembling Using Hand Tracking with Leap Motion Controller*. The 2021 International Conference on Cyberworlds, Caen France, 28-30 Sept 2021, IEEE CPS, 121-124, 2021.
5. Wahab HYbinA and Sourin A. *Application of Generative Adversarial Networks and Latent Space Exploration in Music Visualisation*. The 2021 International Conference on Cyberworlds, Caen France, 28-30 Sept 2021, IEEE CPS, 125-128, 2021.
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11. Sourin A., Music in the Air with Leap Motion Controller, The 2019 International Conference on cyberworlds, Kyoto, 2-4 October 2019, 57-60, IEEE CPS.
12. Volkau I, Mujeeb A, Dai W, Erdt M, Alexei Sourin, Detection Defect in Printed Circuit Boards using Unsupervised Feature Extraction upon Transfer Learning, The 2019 International Conference on Cyberworlds, Kyoto, 2-4 October 2019, IEEE CPS.
13. Chegini M, Bernard J, Berger P, Sourin A, Andrews K, Schreck T. Interactive Labelling of a Multivariate Dataset for Supervised Machine Learning using Linked Visualisations, Clustering, and Active Learning. 2019 PacificVAST workshop of the 2019 IEEE Pacific Visualization conference. Bangkok, April 23-24 2019.
14. Sourin A and Zhong CC. Playing digital Music by Waving Hands in the Air. The 2019 Joint International Workshop on Advanced Image Technology (IWAIT) and International Forum on Medical Imaging in Asia (IFMIA), SPIE, 2019.
15. Chegini M, Schreck T, Sourin A. Multimodal interaction on vertically-mounted large Displays. 2019 The 2019 Joint International Workshop on Advanced Image Technology (IWAIT) and International Forum on Medical Imaging in Asia (IFMIA), SPIE, 2019.
16. Song G. and Sourin A. Towards Asynchronous Video-haptic Interaction in Cyberspace. 2018 Int. Conference on Cyberworlds, 3-5 October 2018, Singapore, IEEE CPS, 160-163.
17. Dai W, Mujeeb A, Erdt M and Sourin A. Towards Automatic Optical Inspection of Soldering Defects. 2018 Int. Conference on Cyberworlds, 3-5 October 2018, Singapore, IEEE CPS, 375-382.
18. Mujeeb A, Dai W, Marius Erdt and Sourin A. Unsupervised Surface Defect Detection Using Deep Autoencoders and Data Augmentation. 2018 Int. Conference on Cyberworlds, 3-5 October 2018, Singapore, IEEE CPS, 391-398.
19. Song G and Sourin A. Tangible Video Communication over the Internet. In Proc. Computer Graphics International 2018, CGI 2018, ACM, June 2018.
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23. Rasool S., Hou X, Liu Y, Sourin A, Sourina O. Assessing Haptic Video Interaction with Neurocognitive Tools, 2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC2016), Budapest, 3057-3062, 2016.
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28. Cui J., Kuijper A, Sourin A. Understanding people's mental models of mid-air interaction for virtual assembly and shape modelling, Proceedings of the 29th International Conference on Computer Animation and Social Agents, CASA 2016, ACM,139-146, doi: <http://dl.acm.org/citation.cfm?doid=2915926.2919330>.
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40. Rasool S., Sourin A., Xia P., Weng B., Kagda F., Towards Hand-Eye Coordination Training in Virtual Knee Arthroscopy, In Proc 19th ACM Symposium on Virtual Reality Software and Technology (VRST2013), ACM SIGGRAPH, Singapore, 6-9 October, 2013, pp.17-26.
41. Pestrikov V., Sourin A., Towards Making Panoramic Images in Virtual Arthroscopy, In Proc 2013 Int Conf on Cyberworlds, IEEE Computer Society, Japan, 21-23 October, 2013, pp. 48-51.

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