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## Publikationer

### **Towards robot cell matrices for agile production—SDU Robotics' assembly cell at the WRC 2018**

Schlette, C., Buch, A. G., Hagelskjær, F., Iturrate, I., Kraft, D., Kramberger, A., Lindvig, A. P., Mathiesen, S., Petersen, H. G., Rasmussen, M. H., Savarimuthu, T. R., Sloth, C., Sørensen, L. C. & Thulesen, T. N., 17. apr. 2020, I : *Advanced Robotics*. 34, 7-8, s. 422-438

### **Bayesian Optimization of 3D Feature Parameters for 6D Pose Estimation**

Hagelskjær, F., Krüger, N. & Buch, A. G., 2019, *Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Kerren, A., Hurter, C. & Braz, J. (red.). SCITEPRESS Digital Library, Bind 5: VISAPP. s. 135-142

### **Using spatial constraints for fast set-up of precise pose estimation in an industrial setting**

Hagelskjær, F., Savarimuthu, T. R., Krüger, N. & Buch, A. G., 2019, *2019 IEEE 15th International Conference on Automation Science and Engineering, CASE 2019*. IEEE, s. 1308-1314 (IEEE International Conference on Automation Science and Engineering).

### **Local point pair feature histogram for accurate 3D matching**

Buch, A. G. & Kraft, D., 6. sep. 2018.

### **BOP: Benchmark for 6D Object Pose Estimation**

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### **A performance evaluation of point pair features**

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### **Compensating Pose Uncertainties Through Appropriate Gripper Finger Cutouts**

Wolniakowski, A., Gams, A., Kiforenko, L., Kramberger, A., Chrysostomou, D-C., Madsen, O., Miatliuk, K., Petersen, H. G., Hagelskjær, F., Buch, A. G., Ude, A. & Krüger, N., 2018, I : *Acta Mechanica et Automatica*. 12, 1, s. 78-83

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Hagelskjær, F., Krüger, N. & Buch, A. G., 2018, *Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Tremeau, A., Braz, J. & Imai, F. (red.). SCITEPRESS Digital Library, Bind 4. s. 198-205

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### **Multi-View Object Instance Recognition in an Industrial Context**

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### **Prediction of ICP Pose Uncertainties Using Monte Carlo Simulation with Synthetic Depth Images**

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### **Rotational Subgroup Voting and Pose Clustering for Robust 3D Object Recognition**

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Meyer, K. K., Wolniakowski, A., Hagelskjær, F., Kiforenko, L., Buch, A. G., Krüger, N., Jørgensen, J. A. & Bodenhagen, L., 2017, *Mechatronics and Robotics Engineering for Advanced and Intelligent Manufacturing*. Zhang, D. & Wei, B. (red.). Springer, Bind 1. s. 123-133 (Lecture Notes in Mechanical Engineering).

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Wolniakowski, A., Gams, A., Kiforenko, L., Kramberger, A., Chrysostomou, D-C., Madsen, O., Miatliuk, K., Petersen, H. G., Hagelskjær, F., Buch, A. G., Ude, A. & Krüger, N., 3. jul. 2016.

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### **A comparison of feature detectors and descriptors for object class matching**

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### **A Large-Scale 3D Object Recognition dataset**

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### **Optimizing Grippers for Compensating Pose Uncertainties by Dynamic Simulation**

Wolniakowski, A., Kramberger, A., Gams, A., Chrysostomou, D-C., Hagelskjær, F., Thulesen, T. N., Kiforenko, L., Buch, A. G., Bodenhagen, L., Petersen, H. G., Madsen, O., Ude, A. & Krüger, N., 2016, *Optimizing Grippers for Compensating Pose Uncertainties by Dynamic Simulation*. IEEE Press, s. 177-184

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### **In Search of 3D Poses: Advancing Feature Description, Matching and Estimation for Robotic Applications**

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### **Shape Dependency of ICP Pose Uncertainties in the Context of Pose Estimation Systems**

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