Zan Gojcic

Email: zan.gojcic@gmail.com/
Mobile: (+41) 779-968-498
Personal webpage: https://zgojcic.github.io/
Github: https://github.com/zgojcic

Education

PhD student at Institute of Geodesy and Photogrammetry – ETH Zurich — 2017 - present
MSc Geomatics science (with distinction) – Graz University of Technology [GPA: 3.96/4.00] — 2013 - 2016
BSc Geodesy and Geoinformation – University of Ljubljana — 2010 - 2013

Professional experiences

Research scientist – Intern at NVIDIA Toronto AI Lab — 3/2021 – 9/2021

Research intern at the simulation technology team supervised by prof. Sanja Fidler, working on 3D vision for autonomous driving.

Research visit at Geometric Computation group – Stanford University — 1/2020 – 3/2020

Worked with L. Guibas, O. Litany and T. Birdal on holistic scene understanding for 3D scene flow estimation in autonomous driving scenarios.

Helped develop a spatiotemporal point cloud representation "CASPR" together with D. Rempe, T. Birdal, S. Sridhar and L. Guibas

Selected activities and achievements

- Best paper award at the JSDM 2019.
- Recipient of the NVIDIA GPU grant.
- Graduated with highest honors from Graz University of Technology (Best in class 2016).
- Reviewer: CVPR, ICCV, ECCV, NeurIPS, IJCV, T-PAMI, BMVC, 3DV
- Organization of the Machine learning tutorial at IVK2020
- "Zois scholarship" for special study achievements granted by the Republic of Slovenia.

Core skills and competences

- **Research interests:** 3D deep learning for autonomous driving, scene understanding, and domain adaptation
- **Programing languages:** Python, C++, Matlab
- **Frameworks and libraries:** Pytorch, Tensorflow, Keras, PCL, Open3D, OpenCV
- **Languages**: Slovene (native), English (Fully professional proficiency) German (Fully professional proficiency)

Selected publications

Z. Gojcic, O. Litany, A. Wieser, L. J. Guibas, T. Birdal: *Weakly Supervised Learning of Rigid 3D Scene Flow*. IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2021). Oral

S. Huang*, Z. Gojcic*, M. Usvyatsov, A. Wieser, K. Schindler: *PREDATOR: Registration of 3D Point Clouds with Low Overlap*. IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2021). Oral

D. Rempe, T. Birdal, Y. Zhao, Z. Gojcic, S. Sridhar, L. J. Guibas: *CASPR: learning canonical spatiotemporal point cloud representations*. Conference on Neural Information Processing Systems (NeurIPS 2020). Spotlight

Z. Gojcic*, C. Zhou*, J. D. Wegner, L. J. Guibas, T. Birdal: *Learning multiview 3D point cloud registration*. IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2020).

Z. Gojcic, C. Zhou, A. Wieser: *Robust pointwise correspondences for point cloud based deformation monitoring of natural scenes*. Joint International Symposium on Deformation Monitoring (JISDM 2019). Best paper award

Z. Gojcic, C. Zhou, J. D. Wegner, A. Wieser: *The Perfect Match: 3D Point Cloud Matching with Smoothed Densities*. IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2019).

* denotes equal contribution

References available on request: Prof. Konrad Schindler, Prof. Jan D. Wegner, Prof. Andreas Wieser