

| Pipeline | MegaDepth | | | | | ScanNet | | | | |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Filtered | Precision | Recall | AUC F_1 | AUC F_2 | Filtered | Precision | Recall | AUC F_1 | AUC F_2 |
| DeDoDe2 | 0.00 | 68.37 | 99.98 | 1.69 | 66.51 | 0.00 | 45.31 | 99.37 | 0.39 | 23.17 |
| +ACNe | 36.09 | 88.48 | 83.75 | 26.83 | 62.64 | 50.19 | 55.16 | 56.79 | 6.97 | 23.10 |
| +ACNe+MAGSAC $_7$ | 49.04 | 94.28 | 71.07 | 53.35 | 61.51 | 64.57 | 57.71 | 39.70 | 14.80 | 22.00 |
| +ACNe+MAGSAC $_4$ | 53.36 | 94.87 | 65.41 | 54.08 | 61.35 | 68.44 | 57.59 | 34.31 | 14.64 | 21.82 |
| +AdaLAM | 0.00 | 68.37 | 99.98 | 1.69 | 66.51 | 0.00 | 45.31 | 99.37 | 0.39 | 23.17 |
| +AdaLAM+MAGSAC $_7$ | 41.74 | 92.09 | 79.44 | 55.51 | 66.10 | 55.59 | 56.52 | 49.24 | 17.80 | 24.74 |
| +AdaLAM+MAGSAC $_4$ | 47.14 | 92.59 | 72.34 | 56.03 | 65.69 | 60.93 | 56.16 | 42.12 | 17.72 | 23.61 |
| +CC | 28.17 | 87.91 | 91.55 | 28.45 | 65.01 | 32.01 | 51.25 | 73.56 | 1.87 | 21.86 |
| +CC+MAGSAC $_7$ | 44.52 | 94.28 | 76.42 | 61.03 | 65.38 | 59.06 | 55.73 | 44.92 | 15.06 | 22.35 |
| +CC+MAGSAC $_4$ | 49.26 | 94.80 | 70.25 | 61.87 | 64.83 | 63.63 | 55.25 | 38.72 | 15.82 | 22.38 |
| +CLNet | 37.82 | 86.87 | 79.15 | 9.13 | 59.52 | 60.31 | 59.54 | 49.81 | 2.34 | 18.66 |
| +CLNet+MAGSAC $_7$ | 50.62 | 92.49 | 66.85 | 45.33 | 58.92 | 71.51 | 61.53 | 35.54 | 9.60 | 17.70 |
| +CLNet+MAGSAC $_4$ | 54.78 | 93.04 | 61.63 | 46.42 | 58.71 | 74.79 | 61.49 | 30.97 | 10.16 | 17.43 |
| +ConvMatch | 66.65 | 85.66 | 49.33 | 24.74 | 47.08 | 67.05 | 64.16 | 47.32 | 8.63 | 20.46 |
| +ConvMatch+MAGSAC $_7$ | 72.73 | 87.62 | 42.30 | 37.22 | 47.38 | 76.69 | 65.78 | 32.68 | 12.98 | 21.56 |
| +ConvMatch+MAGSAC $_4$ | 75.01 | 88.06 | 38.92 | 37.28 | 46.90 | 79.45 | 65.83 | 28.30 | 12.80 | 20.67 |
| +DeMatch | 51.79 | 88.06 | 64.51 | 25.43 | 55.87 | 62.80 | 61.34 | 49.52 | 5.91 | 20.74 |
| +DeMatch+MAGSAC $_7$ | 60.95 | 92.69 | 54.90 | 42.77 | 54.78 | 73.38 | 63.08 | 34.21 | 11.24 | 19.75 |
| +DeMatch+MAGSAC $_4$ | 64.19 | 93.16 | 50.57 | 44.00 | 55.72 | 76.43 | 63.15 | 29.77 | 11.40 | 20.19 |
| +FC-GNN | 35.45 | 88.38 | 84.77 | 6.42 | 68.33 | 46.49 | 54.35 | 62.97 | 1.47 | 27.88 |
| +FC-GNN+MAGSAC $_7$ | 41.79 | 94.77 | 80.90 | 62.24 | 67.61 | 62.72 | 62.24 | 48.16 | 20.40 | 26.77 |
| +FC-GNN+MAGSAC $_4$ | 43.42 | 95.07 | 78.82 | 63.34 | 67.09 | 65.42 | 62.16 | 44.26 | 21.14 | 27.32 |
| +GMS | 34.72 | 84.36 | 79.85 | 21.37 | 63.62 | 34.53 | 51.60 | 71.56 | 1.73 | 22.09 |
| +GMS+MAGSAC $_7$ | 42.52 | 92.10 | 67.14 | 61.03 | 65.13 | 61.43 | 56.39 | 42.84 | 15.52 | 20.54 |
| +GMS+MAGSAC $_4$ | 53.82 | 92.60 | 61.76 | 61.20 | 63.55 | 65.88 | 55.83 | 36.71 | 15.59 | 21.17 |
| +MAGSAC $_7$ | 41.74 | 92.09 | 79.44 | 55.51 | 66.10 | 55.59 | 56.52 | 49.24 | 17.80 | 24.74 |
| +MAGSAC $_4$ | 47.14 | 92.59 | 72.34 | 56.03 | 65.69 | 60.93 | 56.16 | 42.12 | 17.72 | 23.61 |
| +MS ² DG-Net | 72.95 | 83.11 | 36.48 | 1.42 | 48.01 | 70.26 | 54.24 | 35.21 | 0.18 | 11.99 |
| +MS ² DG-Net+MAGSAC $_7$ | 79.80 | 91.12 | 30.58 | 44.64 | 45.73 | 80.70 | 57.09 | 21.92 | 7.09 | 11.70 |
| +MS ² DG-Net+MAGSAC $_4$ | 81.38 | 91.66 | 28.33 | 44.45 | 47.04 | 82.54 | 56.64 | 19.29 | 7.27 | 11.17 |
| +NCC | 0.00 | 60.62 | 84.79 | 1.71 | 56.72 | 0.00 | 43.88 | 97.76 | 0.39 | 22.48 |
| +NCC+MAGSAC $_7$ | 52.70 | 85.47 | 59.26 | 43.78 | 55.46 | 56.57 | 55.69 | 47.45 | 15.19 | 22.99 |
| +NCC+MAGSAC $_4$ | 57.34 | 86.11 | 53.90 | 44.52 | 54.75 | 61.01 | 55.36 | 41.71 | 15.52 | 22.04 |
| +NCMNet | 36.94 | 87.82 | 81.53 | 8.72 | 59.58 | 60.47 | 61.32 | 51.30 | 4.24 | 20.88 |
| +NCMNet+MAGSAC $_7$ | 49.77 | 93.58 | 69.06 | 47.61 | 60.22 | 71.72 | 63.54 | 36.99 | 11.87 | 20.27 |
| +NCMNet+MAGSAC $_4$ | 54.00 | 94.06 | 63.56 | 48.02 | 60.29 | 75.21 | 63.45 | 32.00 | 11.80 | 20.63 |
| +OANet | 71.52 | 87.75 | 38.12 | 10.93 | 50.28 | 79.61 | 49.18 | 19.61 | 2.37 | 9.72 |
| +OANet+MAGSAC $_7$ | 76.77 | 92.71 | 32.89 | 36.16 | 48.47 | 83.58 | 50.05 | 14.70 | 5.33 | 9.56 |
| +OANet+MAGSAC $_4$ | 78.65 | 93.11 | 30.33 | 36.99 | 49.08 | 84.87 | 49.98 | 12.95 | 4.88 | 9.69 |
| +MOP $_{0.5K}$ +MiHo | 10.96 | 74.40 | 98.76 | 2.38 | 67.55 | 8.15 | 47.28 | 95.52 | 0.78 | 23.60 |
| +MOP $_{0.5K}$ +MiHo+MAGSAC $_7$ | 41.98 | 92.67 | 79.48 | 56.93 | 65.87 | 55.93 | 56.89 | 49.62 | 18.45 | 24.24 |
| +MOP $_{0.5K}$ +MiHo+MAGSAC $_4$ | 47.30 | 93.42 | 72.69 | 57.93 | 65.87 | 61.18 | 56.45 | 42.37 | 17.74 | 24.59 |
| +MOP $_{0.5K}$ +MiHo+NCC | 10.96 | 71.37 | 94.82 | 2.41 | 66.06 | 8.15 | 46.37 | 95.16 | 0.78 | 23.43 |
| +MOP $_{0.5K}$ +MiHo+NCC+MAGSAC $_7$ | 44.17 | 93.38 | 77.44 | 54.10 | 65.95 | 54.92 | 56.95 | 50.94 | 17.19 | 25.52 |
| +MOP $_{0.5K}$ +MiHo+NCC+MAGSAC $_4$ | 47.60 | 93.94 | 73.02 | 56.23 | 65.66 | 59.08 | 56.75 | 45.33 | 17.84 | 25.85 |
| +MOP $_{1.0K}$ +MiHo | 10.32 | 74.00 | 99.03 | 2.31 | 66.27 | 7.66 | 47.16 | 95.86 | 0.62 | 23.66 |
| +MOP $_{1.0K}$ +MiHo+MAGSAC $_7$ | 41.92 | 92.62 | 79.64 | 57.29 | 66.12 | 55.99 | 56.87 | 49.45 | 17.31 | 24.72 |
| +MOP $_{1.0K}$ +MiHo+MAGSAC $_4$ | 47.26 | 93.23 | 72.71 | 58.72 | 66.17 | 61.14 | 56.56 | 42.54 | 17.92 | 24.46 |
| +MOP $_{1.0K}$ +MiHo+NCC | 10.32 | 71.03 | 95.14 | 2.33 | 67.12 | 7.66 | 46.26 | 95.18 | 0.63 | 24.51 |
| +MOP $_{1.0K}$ +MiHo+NCC+MAGSAC $_7$ | 44.11 | 93.32 | 77.45 | 53.13 | 65.66 | 54.80 | 57.07 | 51.21 | 18.03 | 25.53 |
| +MOP $_{1.0K}$ +MiHo+NCC+MAGSAC $_4$ | 47.58 | 93.95 | 73.06 | 54.70 | 65.93 | 58.94 | 56.86 | 45.54 | 17.79 | 24.88 |
| +MOP $_{1.5K}$ +MiHo | 9.89 | 73.70 | 99.07 | 2.27 | 66.46 | 7.41 | 47.12 | 96.08 | 0.64 | 23.20 |
| +MOP $_{1.5K}$ +MiHo+MAGSAC $_7$ | 41.93 | 92.56 | 79.59 | 56.48 | 65.08 | 55.94 | 57.02 | 49.47 | 17.55 | 24.92 |
| +MOP $_{1.5K}$ +MiHo+MAGSAC $_4$ | 47.22 | 93.38 | 72.88 | 58.10 | 65.27 | 61.12 | 56.53 | 42.33 | 17.59 | 23.87 |
| +MOP $_{1.5K}$ +MiHo+NCC | 9.89 | 70.76 | 95.13 | 2.23 | 67.02 | 7.41 | 46.24 | 95.74 | 0.65 | 23.80 |
| +MOP $_{1.5K}$ +MiHo+NCC+MAGSAC $_7$ | 44.10 | 93.46 | 77.61 | 52.99 | 64.92 | 54.81 | 57.37 | 51.45 | 17.44 | 25.03 |
| +MOP $_{1.5K}$ +MiHo+NCC+MAGSAC $_4$ | 47.63 | 94.08 | 73.11 | 54.89 | 64.85 | 58.87 | 57.13 | 45.88 | 17.65 | 25.16 |
| +MOP $_{2.0K}$ +MiHo | 9.68 | 73.60 | 99.21 | 2.34 | 68.40 | 7.25 | 47.07 | 96.08 | 0.65 | 23.14 |
| +MOP $_{2.0K}$ +MiHo+MAGSAC $_7$ | 41.91 | 92.49 | 79.55 | 57.09 | 66.52 | 55.94 | 56.75 | 49.43 | 17.56 | 24.64 |
| +MOP $_{2.0K}$ +MiHo+MAGSAC $_4$ | 47.24 | 93.28 | 72.74 | 58.20 | 65.62 | 61.16 | 56.64 | 42.50 | 17.92 | 24.17 |
| +MOP $_{2.0K}$ +MiHo+NCC | 9.68 | 70.67 | 95.50 | 2.32 | 66.99 | 7.25 | 46.18 | 95.53 | 0.64 | 24.52 |
| +MOP $_{2.0K}$ +MiHo+NCC+MAGSAC $_7$ | 44.04 | 93.38 | 77.82 | 53.84 | 65.62 | 54.83 | 56.80 | 51.08 | 17.46 | 24.91 |
| +MOP $_{2.0K}$ +MiHo+NCC+MAGSAC $_4$ | 47.58 | 93.95 | 73.30 | 54.90 | 65.92 | 58.85 | 56.62 | 45.48 | 17.98 | 25.07 |
| +MOP $_{0.5K}$ | 17.75 | 79.29 | 96.92 | 4.13 | 67.19 | 14.43 | 48.90 | 91.50 | 0.90 | 23.41 |
| +MOP $_{0.5K}$ +MAGSAC $_7$ | 42.34 | 93.47 | 79.44 | 58.63 | 67.44 | 56.39 | 57.22 | 49.31 | 18.02 | 24.03 |
| +MOP $_{0.5K}$ +MAGSAC $_4$ | 47.53 | 94.11 | 72.72 | 59.77 | 67.28 | 61.63 | 56.82 | 42.33 | 17.85 | 24.37 |
| +MOP $_{0.5K}$ +NCC | 17.75 | 75.81 | 92.68 | 4.11 | 66.08 | 14.43 | 47.99 | 90.99 | 0.91 | 25.52 |
| +MOP $_{0.5K}$ +NCC+MAGSAC $_7$ | 44.61 | 93.64 | 76.59 | 54.37 | 65.06 | 55.12 | 57.69 | 51.68 | 17.55 | 25.22 |
| +MOP $_{0.5K}$ +NCC+MAGSAC $_4$ | 48.02 | 94.20 | 72.24 | 56.76 | 65.74 | 59.05 | 57.59 | 46.34 | 18.32 | 25.97 |
| +MOP $_{1.0K}$ | 17.04 | 78.80 | 97.21 | 3.39 | 68.25 | 13.72 | 48.81 | 92.62 | 1.17 | 23.43 |
| +MOP $_{1.0K}$ +MAGSAC $_7$ | 42.22 | 93.41 | 79.61 | 58.61 | 67.04 | 56.30 | 57.17 | 49.31 | 17.85 | 23.80 |
| +MOP $_{1.0K}$ +MAGSAC $_4$ | 47.42 | 94.03 | 72.83 | 59.63 | 67.65 | 61.46 | 56.86 | 42.40 | 17.95 | 24.21 |
| +MOP $_{1.0K}$ +NCC | 17.04 | 75.42 | 93.01 | 3.50 | 66.47 | 13.72 | 47.89 | 92.28 | 1.18 | 25.21 |
| +MOP $_{1.0K}$ +NCC+MAGSAC $_7$ | 44.50 | 93.86 | 76.96 | 55.04 | 65.72 | 55.05 | 57.92 | 51.91 | 18.73 | 26.47 |
| +MOP $_{1.0K}$ +NCC+MAGSAC $_4$ | 47.91 | 94.37 | 72.57 | 55.74 | 65.75 | 59.06 | 57.75 | 46.50 | 18.85 | 25.70 |
| +MOP $_{1.5K}$ | 16.65 | 78.47 | 97.39 | 3.43 | 67.23 | 13.56 | 48.73 | 92.73 | 0.95 | 23.33 |
| +MOP $_{1.5K}$ +MAGSAC $_7$ | 42.24 | 93.22 | 79.43 | 57.95 | 66.79 | 56.35 | 57.07 | 49.28 | 17.67 | 24.01 |
| +MOP $_{1.5K}$ +MAGSAC $_4$ | 47.41 | 93.98 | 72.83 | 59.64 | 65.79 | 61.47 | 56.83 | 42.49 | 17.73 | 25.00 |
| +MOP $_{1.5K}$ +NCC | 16.65 | 75.13 | 93.22 | 3.41 | 68.00 | 13.56 | 47.81 | 91.91 | 0.95 | 25.31 |
| +MOP $_{1.5K}$ +NCC+MAGSAC $_7$ | 44.45 | 93.73 | 77.03 | 55.04 | 64.74 | 54.95 | 57.68 | 51.76 | 18.74 | 26.51 |
| +MOP $_{1.5K}$ +NCC+MAGSAC $_4$ | 47.91 | 94.22 | 72.53 | 56.76 | 64.55 | 58.96 | 57.34 | 46.22 | 18.59 | 25.63 |
| +MOP $_{2.0K}$ | 16.44 | 78.32 | 97.48 | 3.59 | 67.67 | 13.45 | 48.69 | 92.64 | 1.10 | 23.01 |
| +MOP $_{2.0K}$ +MAGSAC $_7$ | 42.17 | 93.18 | 79.54 | 58.17 | 66.59 | 56.42 | 57.21 | 49.28 | 17.58 | 24.91 |
| +MOP $_{2.0K}$ +MAGSAC $_4$ | 47.42 | 93.77 | 72.67 | 60.14 | 66.28 | 61.54 | 56.67 | 42.07 | 17.69 | 24.60 |
| +MOP $_{2.0K}$ +NCC | 16.44 | 75.04 | 93.38 | 3.44 | 66.89 | 13.45 | 47.74 | 91.83 | 1.11 | 24.21 |
| +MOP $_{2.0K}$ +NCC+MAGSAC $_7$ | 44.38 | 93.86 | 77.26 | 54.30 | 66.97 | 55.05 | 57.26 | 51.35 | 18.04 | 26.23 |
| +MOP $_{2.0K}$ +NCC+MAGSAC $_4$ | 47.80 | 94.49 | 72.97 | 56.01 | 64.90 | 58.99 | 57.25 | 46.05 | 18.82 | 26.04 |