04 07/06/2023 sopie: Internimage: exploring models with dysemable comutions Abstract: compared to the quat progress of large scale vision transformers (vits) in eigent years, large scale models based on convolutional neutral networks (CNN) are still in an early state This week pisents a new large - scale cup based foundation model, termed Intern mage, which can obtain the gain from incuasing garameters and training data reke VITS Different from the elect chis that focus On laye dense kernals, Intern mage takes differnable convulation as the core operator, so that one model not only has the laye expectine exceptive fill required the devenstream fastes suchas dittetion and symentation, but also has the adaptine spatial aggregation conditwould by input and task information. its a sesult, the proposed luterninage leduces the etict Productive it possible to have surger and morie robust parterns with large scale parameters from massine data whe

Vite. The effectiveness of one model is pronen on challenging benchmarks including Image Net, coco. and ADEROK It is worth mentioning that internating Image - He actioned a new second 65.4 map on coco test-der and 629 mou on Abbok outperforming current leading cons and ViTs. Conclusion: We introduce Internimage, a new large scale CND based toundation model that can provide strong expresentations for resatile usion tasks, such as maye dassification, object detection and smantic symentation. We tune the flexible DCNV2 operator to satisfy the requirement of foundation models and direlap a series of belocks, stacking and scaling sules centered on the core operator. Extensine experiments on object dilection and semantic segmentation benchmarks verify that Our Internimage can obtain comparable de better performance than well defined large exall vision teams formers Adired with massine data showing that CNN is also a considerable ceroice follage scale visions foundation model research Nonetheless Laterry, remains an issue for DCN based openions adapting to down steran tacks weith high spied requiremen

Isleo, large scale requirements cons are still in their early sterges of development, and we prope them ing point.