

R-Unet: A deep learning model for rice extraction in Rio Grande do Sul, Brazil

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Table S1. Test results of the baseline models on Dataset 01- 06.

Dataset	Model	Precision	IOU	Recall	F1-score	MCC	OA	Time(ms)
Dataset03	R-Unet	<u>0.939</u>	<u>0.852</u>	<u>0.903</u>	<u>0.920</u>	<u>0.886</u>	<u>0.951</u>	<u>29.39</u>
	MFF-Unet	0.937	0.821	0.868	0.902	0.861	0.941	30.13
	Attention-ResUnet	0.910	0.804	0.873	0.891	0.845	0.934	32.00
	Unet	0.923	0.836	0.899	0.911	0.872	0.946	29.86
	L-Unet	.931	0.794	0.844	0.885	0.840	0.932	29.88
Dataset05	R-Unet	<u>0.910</u>	<u>0.725</u>	0.781	<u>0.841</u>	<u>0.781</u>	<u>0.908</u>	<u>29.13</u>
	MFF-Unet	0.851	0.702	<u>0.801</u>	0.825	0.755	0.899	30.55
	Attention-ResUnet	0.904	0.657	0.705	0.793	0.728	0.888	33.64
	Unet	0.907	0.694	0.747	0.819	0.757	0.900	29.25
	L-Unet	0.901	0.697	0.754	0.821	0.757	0.899	30.94
Dataset06	R-Unet	<u>0.880</u>	<u>0.474</u>	0.507	<u>0.643</u>	<u>0.575</u>	<u>0.826</u>	<u>28.04</u>
	MFF-Unet	0.852	0.457	0.497	0.628	0.551	0.818	29.40
	Attention-ResUnet	0.834	0.469	<u>0.517</u>	0.638	0.553	0.819	34.85
	Unet	0.855	0.422	0.454	0.593	0.524	0.808	29.86
	L-Unet	0.851	0.402	0.432	0.573	0.508	0.805	29.23
Dataset04	R-Unet	<u>0.867</u>	<u>0.632</u>	0.700	<u>0.775</u>	<u>0.697</u>	<u>0.875</u>	28.78
	MFF-Unet	0.855	0.632	<u>0.708</u>	<u>0.775</u>	0.693	0.873	29.53
	Attention-ResUnet	0.854	0.587	0.653	0.740	0.656	0.858	35.08
	Unet	0.857	0.591	0.656	0.743	0.661	0.861	<u>26.72</u>
	L-Unet	0.859	0.611	0.679	0.758	0.677	0.866	29.91
Dataset01	R-Unet	<u>0.829</u>	<u>0.733</u>	0.863	<u>0.846</u>	<u>0.775</u>	<u>0.903</u>	28.12
	MFF-Unet	0.808	0.715	0.861	0.834	0.757	0.894	30.22
	Attention-ResUnet	0.824	0.721	0.853	0.838	0.759	0.894	33.90
	Unet	0.799	0.724	<u>0.885</u>	0.840	0.758	0.889	<u>26.81</u>
	L-Unet	0.806	0.714	0.863	0.833	0.760	0.897	29.74
Dataset02	R-Unet	<u>0.772</u>	<u>0.506</u>	0.595	<u>0.672</u>	<u>0.560</u>	<u>0.821</u>	27.97
	MFF-Unet	0.676	0.505	<u>0.667</u>	0.671	0.526	0.798	28.45
	Attention-ResUnet	0.751	0.499	0.598	0.666	0.551	0.820	32.61
	Unet	0.756	0.503	0.601	0.670	0.552	0.817	<u>26.87</u>
	L-Unet	0.718	0.478	0.588	0.647	0.520	0.806	28.57