

## APPENDIX

TABLE I. BRIEF DESCRIPTION OF 30 PARTICIPATING TEAMS.

TEAM	AFFILIATION	METHOD
<i>QL111111</i>	Northeastern University of China	3D, U-Net
<i>FightAutism</i>	Nanjing University of Science and Technology	3D, U-Net
<i>xflz</i>	University of Virginia	3D, U-Net
<i>trung</i>	Media System Laboratory, Sungkyunkwan University	3D, U-Net, DenseNet, cross-link
<i>Tao_SMU</i>	School of Biomedical Engineering, Southern Medical University	3D, Fully resolution residual network+attention module
<i>CU_SIAT</i>	The Chinese University of Hong Kong	3D, Extended DenseNet
<i>RB</i>	Concordia University	3D, DenseNet
<i>SmartDSP</i>	Xiamen University	3D, U-Net
<i>WorldSeg</i>	South China University of Technology	3D, U-Net with DenseBlocks
<i>BIG</i>	Cleveland Clinic Lou Ruvo Center for Brain Health	3D, U-Net
<i>brain_gen</i>	Imperial College London	3D, U-Net
<i>VIPSL</i>	Xidian University	3D, U-Net
<i>Brain_Tech</i>	Beihang University	3D, CNN+U-Net
<i>PerceptionComputingLab_HIT</i>	Harbin Institute of Technology	3D, Augmented U-Net + Dense block
<i>SJTU-IMT</i>	Institute of Medical Robotics, Shanghai Jiao Tong University	3D, Two stages, FCN+U-Net
<i>SISE</i>	Fujian University of Technology	3D, Densely U-Net
<i>WYF2019DUT</i>	Dalian University of Technology	3D, U-Net
<i>MA_SmartDSP</i>	Xiamen University	(No description for method)
<i>Road</i>	Sichuan University	3D, U-Net
<i>Guardian620</i>	Xiangtan University	3D, Densely Connected CNN
<i>OxfordBME</i>	University of Oxford	3D, FCN
<i>Climb_Mountains</i>	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	3D, U-Net
<i>SLHC_MICCAI</i>	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	2D+3D, U-net, two stages
<i>MASI(baseline)</i>	Vanderbilt University	Spatially tiled U-Nets, two stages
<i>nic_vicorob</i>	Research Institute of Computer Vision and Robotics, Universitat de Girona	Multi-atlas segmentation
<i>long</i>	Northeastern University	2.5D, encoder-decoder network +GDPCnv and attention module
<i>emc_Brain</i>	Erasmus MC	3D, U-Net+Attention Mechanism
<i>lyh</i>	Shanghai Jiao Tong University	2D, U-Net with a Dice loss
<i>UBC001</i>	University of British Columbia	2D, LinkNet (U-Net+DenseNet)
<i>tiantian</i>	Shanghai Jiao Tong University	2D, U-Net with a Dice loss

TABLE II. THE MEDIANS OF DICE, HD95 AND ASD VALUES FOR 30 TEAMS IN TERMS OF THE WHOLE BRAIN. THE HIGHEST DICE, AS WELL AS THE LOWEST HD95 AND THE LOWEST ASD ARE HIGHLIGHTED IN BOLD FOR EACH TEAM.

TEAM	WM			GM			CSF		
	DICE	HD95 (mm)	ASD (mm)	DICE	HD95 (mm)	ASD (mm)	DICE	HD95 (mm)	ASD (mm)
<i>QL111111</i>	<b>0.878</b>	7.615	<b>0.478</b>	0.847	7.174	<b>0.499</b>	0.837	12.000	0.536
<i>FightAutism</i>	0.864	7.616	0.511	0.846	<b>6.594</b>	0.555	0.829	13.019	0582
<i>xflz</i>	0.860	7.415	0.514	0.837	7.671	0.549	0.828	12.207	0.556

<i>trung</i>	0.870	8.544	0.497	0.839	7.515	0.525	0.824	13.038	0.566
<i>Tao_SMU</i>	0.867	8.562	0.496	0.847	7.416	0.531	0.839	11.811	0.542
<i>CU_SIAT</i>	0.852	8.971	0.568	0.842	7.036	0.559	<b>0.840</b>	13.635	<b>0.534</b>
<i>RB</i>	0.858	8.366	0.566	0.830	7.545	0.534	0.827	13.415	0.554
<i>SmartDSP</i>	0.868	8.590	0.498	<b>0.851</b>	7.545	0.541	0.831	12.825	0.561
<i>WorldSeg</i>	0.859	<b>7.314</b>	0.515	0.835	7.874	0.555	0.814	13.000	0.570
<i>BIG</i>	0.855	8.773	0.526	0.842	8.307	0.551	0.832	12.227	0.546
<i>brain_gen</i>	0.845	8.332	0.598	0.822	7.140	0.574	0.829	12.704	0.577
<i>VIPSL</i>	0.833	7.810	0.587	0.816	8.307	0.594	0.822	10.999	0.557
<i>Brain_Tech</i>	0.844	8.454	0.589	0.807	7.968	0.593	0.817	13.115	0.617
<i>PerceptionComputingLab_HIT</i>	0.845	8.689	0.593	0.827	7.713	0.585	0.818	12.529	0.569
<i>SJTU-IMT</i>	0.848	8.602	0.584	0.832	7.874	0.559	0.829	11.576	0.550
<i>SISE</i>	0.845	8.775	0.549	0.826	7.937	0.563	0.824	11.269	0.549
<i>WYF2019DUT</i>	0.855	8.773	0.526	0.842	8.307	0.551	0.832	12.227	0.546
<i>MA_SmartDSP</i>	0.831	7.806	0.635	0.808	7.648	0.591	0.827	11.358	0.565
<i>Road</i>	0.839	9.354	0.579	0.817	7.936	0.595	0.805	12.308	0.599
<i>Guardian620</i>	0.805	9.055	0.671	0.795	8.396	0.669	0.822	11.467	0.584
<i>OxfordIBME</i>	0.838	9.487	0.612	0.803	8.276	0.607	0.812	12.369	0.634
<i>Climb_Mountains</i>	0.775	9.644	0.831	0.765	7.936	0.675	0.817	12.981	0.607
<i>SLHC_MICCAI</i>	0.821	9.028	0.710	0.779	8.307	0.609	0.824	12.864	0.575
<i>MASl(baseline)</i>	0.722	9.220	1.000	0.709	7.482	0.736	0.730	13.058	0.825
<i>nic_vicorob</i>	0.758	10.535	1.024	0.762	8.366	0.799	0.783	13.689	0.740
<i>long</i>	0.762	9.653	0.828	0.735	9.140	0.663	0.788	<b>9.503</b>	0.565
<i>emc_Brain</i>	0.661	14.142	1.456	0.735	8.060	0.896	0.773	13.114	0.761
<i>lyh</i>	0.746	14.575	0.923	0.752	17.351	0.734	0.812	43.734	0.612
<i>UBC001</i>	0.704	11.887	1.129	0.706	8.184	0.810	0.723	9.565	0.801
<i>tiantian</i>	0.711	16.000	1.040	0.746	16.728	0.784	0.806	116.122	0.717

TABLE III. THE MEDIANS OF DICE, HD95 AND ASD VALUES FOR EIGHT TOP-RANKED TEAMS IN TERMS OF THE WHOLE BRAIN ON THREE SITES. THE HIGHEST DICE, AS WELL AS THE LOWEST HD95 AND THE LOWEST ASD ARE HIGHLIGHTED IN BOLD FOR EACH SITE.

TEAM	SITE	WM			GM			CSF		
		DICE	HD95 (mm)	ASD (mm)	DICE	HD95 (mm)	ASD (mm)	DICE	HD95 (mm)	ASD (mm)
<i>QL111111</i>	UNCUMN (BCP)	<b>0.896</b>	<b>7.280</b>	<b>0.413</b>	<b>0.854</b>	<b>6.594</b>	<b>0.484</b>	0.834	12.077	0.536
	Stanford University	0.861	8.307	0.504	0.801	8.246	0.557	0.825	13.191	0.697
	Emory University	0.874	7.874	0.484	0.847	7.874	0.491	<b>0.858</b>	<b>11.576</b>	<b>0.390</b>
<i>FightAutism</i>	UNCUMN (BCP)	<b>0.880</b>	<b>7.382</b>	<b>0.458</b>	<b>0.849</b>	<b>5.957</b>	<b>0.538</b>	0.830	13.246	0.582
	Stanford University	0.848	9.539	0.578	0.791	8.246	0.583	0.823	<b>11.180</b>	0.645
	Emory University	0.864	7.616	0.516	0.847	6.000	0.566	<b>0.841</b>	14.177	<b>0.481</b>
<i>xfz</i>	UNCUMN (BCP)	<b>0.874</b>	<b>6.802</b>	<b>0.483</b>	0.840	<b>6.403</b>	<b>0.539</b>	0.826	12.467	0.556
	Stanford University	0.853	7.550	0.529	0.791	8.944	0.582	0.816	12.207	0.699
	Emory University	0.859	8.062	0.532	<b>0.842</b>	8.307	0.546	<b>0.853</b>	<b>11.874</b>	<b>0.403</b>
<i>trung</i>	UNCUMN (BCP)	<b>0.887</b>	<b>6.745</b>	<b>0.444</b>	<b>0.847</b>	6.846	<b>0.513</b>	0.827	12.923	0.566
	Stanford University	0.832	10.630	0.603	0.774	8.307	0.662	0.759	15.297	1.000
	Emory University	0.870	9.165	0.497	0.846	<b>6.708</b>	0.520	<b>0.844</b>	<b>12.570</b>	<b>0.455</b>
<i>Tao_SMU</i>	UNCUMN (BCP)	0.834	12.159	0.542	<b>0.852</b>	<b>6.518</b>	<b>0.521</b>	0.834	12.159	0.542
	Stanford University	0.823	12.570	0.671	0.795	8.775	0.579	0.823	12.570	0.671
	Emory University	<b>0.854</b>	<b>11.576</b>	<b>0.412</b>	0.850	8.307	0.528	<b>0.854</b>	<b>11.576</b>	<b>0.412</b>
<i>CU_SIAT</i>	UNCUMN (BCP)	<b>0.875</b>	7.743	<b>0.486</b>	<b>0.852</b>	<b>6.442</b>	<b>0.517</b>	<b>0.848</b>	<b>13.190</b>	0.533
	Stanford University	0.832	9.899	0.614	0.779	7.810	0.625	0.805	14.457	0.825
	Emory University	0.850	<b>7.483</b>	0.573	0.838	7.000	0.560	0.847	13.928	<b>0.452</b>
<i>RB</i>	UNCUMN (BCP)	<b>0.891</b>	<b>7.804</b>	<b>0.446</b>	<b>0.853</b>	<b>6.842</b>	<b>0.485</b>	<b>0.840</b>	<b>13.096</b>	0.543
	Stanford University	0.831	9.434	0.618	0.758	8.062	0.671	0.751	15.166	1.058
	Emory University	0.858	9.274	0.567	0.827	8.307	0.534	0.835	13.638	<b>0.504</b>
<i>SmartDSP</i>	UNCUMN (BCP)	<b>0.886</b>	<b>7.611</b>	<b>0.451</b>	<b>0.854</b>	6.880	<b>0.522</b>	0.835	13.019	0.561
	Stanford University	0.844	10.770	0.591	0.789	8.602	0.599	0.812	12.083	0.700
	Emory University	0.867	8.124	0.503	0.853	<b>6.708</b>	0.546	<b>0.851</b>	<b>11.874</b>	<b>0.429</b>



GM-ASD (mm)								
TEAM	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	-	5.312e-4 <sup>++</sup>	4.378e-4 <sup>++</sup>	4.378e-4 <sup>++</sup>	4.378e-4 <sup>++</sup>	4.378e-4 <sup>++</sup>	0.001 <sup>++</sup>	4.378e-4 <sup>++</sup>
<i>FightAutism</i>		-	0.469	0.756	0.006 <sup>++</sup>	0.535	0.756	0.121
<i>xflz</i>			-	0.918	0.005 <sup>++</sup>	0.196	1.000	0.301
<i>trung</i>				-	0.717	0.717	0.836	0.756
<i>Tao_SMU</i>					-	0.011 <sup>+</sup>	0.469	0.063
<i>CU_SIAT</i>						-	0.605	0.039 <sup>+</sup>
<i>RB</i>							-	0.756
<i>SmartDSP</i>								-

CSF-DICE								
TEAM	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	-	0.001 <sup>++</sup>	4.378e-4 <sup>++</sup>	4.378e-4 <sup>++</sup>	0.535	0.234	0.006 <sup>++</sup>	0.011
<i>FightAutism</i>		-	0.642	0.056	0.001 <sup>++</sup>	0.352	0.163	0.088
<i>xflz</i>			-	0.008 <sup>+</sup>	4.378e-4 <sup>++</sup>	0.469	0.088	0.056
<i>trung</i>				-	5.312e-4 <sup>++</sup>	0.002 <sup>++</sup>	0.918	4.378e-4 <sup>++</sup>
<i>Tao_SMU</i>					-	0.234	0.007 <sup>++</sup>	0.017 <sup>+</sup>
<i>CU_SIAT</i>						-	4.378e-4 <sup>++</sup>	0.918
<i>RB</i>							-	0.011 <sup>+</sup>
<i>SmartDSP</i>								-

CSF-HD95 (mm)								
TEAM	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	-	0.427	0.955	0.004 <sup>++</sup>	0.594	0.002 <sup>++</sup>	0.002 <sup>++</sup>	0.756
<i>FightAutism</i>		-	0.163	0.701	0.191	0.134	0.177	0.347
<i>xflz</i>			-	0.001 <sup>++</sup>	0.683	5.312e-4 <sup>++</sup>	0.001 <sup>++</sup>	0.177
<i>trung</i>				-	0.002 <sup>++</sup>	0.334	0.148	0.140
<i>Tao_SMU</i>					-	6.550e-4 <sup>++</sup>	6.550e-4 <sup>++</sup>	0.463
<i>CU_SIAT</i>						-	0.814	0.004 <sup>++</sup>
<i>RB</i>							-	0.019 <sup>+</sup>
<i>SmartDSP</i>								-

CSF-ASD (mm)								
TEAM	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	-	0.163	0.163	4.378e-4 <sup>++</sup>	0.679	0.004 <sup>++</sup>	7.764e-4 <sup>++</sup>	0.301
<i>FightAutism</i>		-	0.234	0.501	0.013 <sup>+</sup>	0.679	0.179	0.134
<i>xflz</i>			-	4.378e-4 <sup>++</sup>	0.006 <sup>++</sup>	0.011 <sup>+</sup>	0.005 <sup>++</sup>	0.756
<i>trung</i>				-	4.378e-4 <sup>++</sup>	0.023 <sup>+</sup>	0.109	0.006 <sup>++</sup>
<i>Tao_SMU</i>					-	0.005 <sup>++</sup>	6.430e-4 <sup>++</sup>	0.011 <sup>+</sup>
<i>CU_SIAT</i>						-	0.002 <sup>++</sup>	0.088
<i>RB</i>							-	0.007 <sup>++</sup>
<i>SmartDSP</i>								-

TABLE V. THE P-VALUES OF THE WILCOXON SIGNED-RANK TESTS BETWEEN THE RESULTS OF ANY TWO AMONG THE EIGHT TOP-RANKED TEAMS ON THREE SITES.

<sup>+</sup>DENOTES WEAK STATISTICAL SIGNIFICANCE (P-VALUE < 0.05)  
<sup>++</sup>DENOTES STRONG STATISTICAL SIGNIFICANCE (P-VALUE < 0.01)

WM-DICE									
TEAM	SITE	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	UNC/UMN (BCP)	-		0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.173	0.028 <sup>+</sup>
	Stanford University			0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University			0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.080	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>FightAutism</i>	UNC/UMN (BCP)	-		0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.600	0.046 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University			0.138	0.043 <sup>+</sup>	0.893	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University			0.043 <sup>+</sup>	0.080	0.080	0.043 <sup>+</sup>	0.500	0.043 <sup>+</sup>
<i>xflz</i>	UNC/UMN (BCP)			-	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.345	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University				0.043 <sup>+</sup>	0.225	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.080
	Emory University				0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.686	0.043 <sup>+</sup>

<i>trung</i>	UNC/UMN (BCP)				-	0.046 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.600
	Stanford University					0.043 <sup>+</sup>	0.225	0.345	0.043 <sup>+</sup>
	Emory University					0.080	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.345
<i>Tao_SMU</i>	UNC/UMN (BCP)						0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.075
	Stanford University					-	0.225	0.043 <sup>+</sup>	0.080
	Emory University						0.043 <sup>+</sup>	0.080	0.138
<i>CU_SIAT</i>	UNC/UMN (BCP)							0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University						-	0.225	0.500
	Emory University							0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>RB</i>	UNC/UMN (BCP)							-	0.028 <sup>+</sup>
	Stanford University								0.043 <sup>+</sup>
	Emory University								0.043 <sup>+</sup>
<i>SmartDSP</i>	-								-

WM-HD95 (mm)

TEAM	SITE	<i>QL111111</i>	<i>FightAutism</i>	<i>xfz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	UNC/UMN (BCP)	-	0.600	0.463	0.500	0.028 <sup>+</sup>	0.225	0.345	0.345
	Stanford University		0.345	0.043 <sup>+</sup>	0.225	0.686	0.225	0.686	0.080
	Emory University		0.500	0.686	0.893	0.500	0.893	0.043 <sup>+</sup>	0.500
<i>FightAutism</i>	UNC/UMN (BCP)	-		0.917	0.916	0.028 <sup>+</sup>	0.046 <sup>+</sup>	0.249	0.046 <sup>+</sup>
	Stanford University		0.043 <sup>+</sup>	0.500	0.500	0.345	0.225	0.043 <sup>+</sup>	
	Emory University		0.345	0.686	0.686	0.893	0.138	0.500	
<i>xfz</i>	UNC/UMN (BCP)	-			0.715	0.028 <sup>+</sup>	0.080	0.173	0.116
	Stanford University		0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	
	Emory University		0.225	0.138	0.345	0.080	0.043 <sup>+</sup>		
<i>trung</i>	UNC/UMN (BCP)	-				0.028 <sup>+</sup>	0.225	0.116	0.249
	Stanford University		0.345	0.500	0.138	0.043 <sup>+</sup>	0.715		
	Emory University		0.500	0.893	0.080	0.893			
<i>Tao_SMU</i>	UNC/UMN (BCP)	-					0.345	0.116	0.075
	Stanford University		0.345	0.715	0.043 <sup>+</sup>	0.893			
	Emory University		0.893	0.893	0.893				
<i>CU_SIAT</i>	UNC/UMN (BCP)	-						0.917	0.463
	Stanford University		0.138	0.068					
	Emory University		0.225	0.345					
<i>RB</i>	UNC/UMN (BCP)	-							0.753
	Stanford University		0.043 <sup>+</sup>						
	Emory University		0.138						
<i>SmartDSP</i>	-								-

WM-ASD (mm)

TEAM	SITE	<i>QL111111</i>	<i>FightAutism</i>	<i>xfz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	UNC/UMN (BCP)	-	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University		0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.138	0.138	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.500
	Emory University		0.043 <sup>+</sup>						
<i>FightAutism</i>	UNC/UMN (BCP)	-		0.028 <sup>+</sup>	0.075	0.463	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University		0.080	0.043 <sup>+</sup>	0.080	0.080	0.043 <sup>+</sup>	0.043 <sup>+</sup>	
	Emory University		0.138	0.138	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	
<i>xfz</i>	UNC/UMN (BCP)	-			0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.046 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University		0.043 <sup>+</sup>	0.225	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>		
	Emory University		0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>			
<i>trung</i>	UNC/UMN (BCP)	-				0.345	0.278	0.345	0.463
	Stanford University		0.043 <sup>+</sup>	0.686	0.500	0.043 <sup>+</sup>	0.893		
	Emory University		0.686	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.893			
<i>Tao_SMU</i>	UNC/UMN (BCP)	-					0.028 <sup>+</sup>	0.249	0.600
	Stanford University		0.080	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>			
	Emory University		0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.225				
<i>CU_SIAT</i>	UNC/UMN (BCP)	-						0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University		0.138	0.686					
	Emory University		0.138	0.043 <sup>+</sup>					
<i>RB</i>	UNC/UMN (BCP)	-							0.345
	Stanford University		0.043 <sup>+</sup>						
	Emory University		0.043 <sup>+</sup>						
<i>SmartDSP</i>	-								-

GM-DICE

TEAM	SITE	<i>QL111111</i>	<i>FightAutism</i>	<i>xfz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	UNC/UMN (BCP)	-	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.046 <sup>+</sup>	0.046 <sup>+</sup>	0.917	0.463
	Stanford University		0.043 <sup>+</sup>	0.138	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	
	Emory University		0.893	0.043 <sup>+</sup>	0.225	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	

<i>FightAutism</i>	UNC/UMN (BCP)			0.028 <sup>+</sup>	0.249	0.345	0.028 <sup>+</sup>	0.075	0.028 <sup>+</sup>
	Stanford University		-	0.500	0.043 <sup>+</sup>	0.500	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University			0.043 <sup>+</sup>	0.686	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>xflz</i>	UNC/UMN (BCP)				0.046 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University			-	0.043 <sup>+</sup>	0.686	0.080	0.043 <sup>+</sup>	0.345
	Emory University				0.080	0.043 <sup>+</sup>	0.345	0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>trung</i>	UNC/UMN (BCP)					0.345	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University				-	0.043 <sup>+</sup>	0.080	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University					0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>Tao_SMU</i>	UNC/UMN (BCP)						0.345	0.463	0.345
	Stanford University					-	0.138	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University						0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.345
<i>CU_SIAT</i>	UNC/UMN (BCP)							0.753	0.345
	Stanford University						-	0.043 <sup>+</sup>	0.500
	Emory University							0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>RB</i>	UNC/UMN (BCP)								0.917
	Stanford University							-	0.043 <sup>+</sup>
	Emory University								0.043 <sup>+</sup>
<i>SmartDSP</i>	-								-

GM-HD95 (mm)

TEAM	SITE	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>	
<i>QL111111</i>	UNC/UMN (BCP)			0.173	0.686	0.249	0.834	0.225	0.345	0.068
	Stanford University		-	0.686	0.686	0.893	0.893	0.686	0.593	0.893
	Emory University			0.068	1.000	0.068	0.066	0.068	0.686	0.273
<i>FightAutism</i>	UNC/UMN (BCP)			0.173	0.075	0.225	0.500	0.046 <sup>+</sup>	0.028 <sup>+</sup>	
	Stanford University		-	0.144	0.893	0.080	0.893	0.686	0.686	
	Emory University			0.068	0.593	0.043 <sup>+</sup>	0.068	0.138	0.109	
<i>xflz</i>	UNC/UMN (BCP)				0.753	0.600	0.138	0.500	0.109	
	Stanford University			-	0.345	0.715	0.138	0.138	0.345	
	Emory University				0.068	0.109	0.068	0.715	0.465	
<i>trung</i>	UNC/UMN (BCP)					0.345	0.116	0.715	0.138	
	Stanford University				-	0.500	0.893	0.715	0.500	
	Emory University					0.043 <sup>+</sup>	1.000	0.225	1.000	
<i>Tao_SMU</i>	UNC/UMN (BCP)						0.753	0.225	0.043 <sup>+</sup>	
	Stanford University					-	0.080	0.225	0.345	
	Emory University						0.043	0.465	0.138	
<i>CU_SIAT</i>	UNC/UMN (BCP)							0.249	0.046 <sup>+</sup>	
	Stanford University						-	0.893	0.893	
	Emory University							0.144	0.715	
<i>RB</i>	UNC/UMN (BCP)								0.273	
	Stanford University							-	0.500	
	Emory University								0.465	
<i>SmartDSP</i>	-								-	

GM-ASD (mm)

TEAM	SITE	<i>QL111111</i>	<i>FightAutism</i>	<i>xflz</i>	<i>trung</i>	<i>Tao_SMU</i>	<i>CU_SIAT</i>	<i>RB</i>	<i>SmartDSP</i>
<i>QL111111</i>	UNC/UMN (BCP)			0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.249	0.028 <sup>+</sup>
	Stanford University		-	0.080	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University			0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>FightAutism</i>	UNC/UMN (BCP)			0.917	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University		-	0.686	0.043 <sup>+</sup>	0.893	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University			0.080	0.043 <sup>+</sup>	0.080	0.686	0.138	0.043 <sup>+</sup>
<i>xflz</i>	UNC/UMN (BCP)				0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>	0.028 <sup>+</sup>
	Stanford University			-	0.043 <sup>+</sup>	0.345	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.138
	Emory University				0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.345	0.138
<i>trung</i>	UNC/UMN (BCP)					0.116	0.173	0.028 <sup>+</sup>	0.116
	Stanford University				-	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.225	0.043 <sup>+</sup>
	Emory University					0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.080
<i>Tao_SMU</i>	UNC/UMN (BCP)						0.116	0.028 <sup>+</sup>	0.917
	Stanford University					-	0.043 <sup>+</sup>	0.043 <sup>+</sup>	0.043 <sup>+</sup>
	Emory University						0.043 <sup>+</sup>	0.080	0.345
<i>CU_SIAT</i>	UNC/UMN (BCP)							0.028 <sup>+</sup>	0.116
	Stanford University						-	0.080	0.080
	Emory University							0.043 <sup>+</sup>	0.043 <sup>+</sup>
<i>RB</i>	UNC/UMN (BCP)								0.028 <sup>+</sup>
	Stanford University							-	0.043 <sup>+</sup>
	Emory University								0.500
<i>SmartDSP</i>	-								-

CSF-DICE



	Stanford University										0.043 <sup>+</sup>
	Emory University										0.600
SmartDSP	-										-

TABLE VI. THE P-VALUES OF THE WILCOXON RANK-SUM TESTS BETWEEN THE RESULTS OF ANY TWO AMONG VALIDATION AND TESTING SITES.

<sup>+</sup>DENOTES WEAK STATISTICAL SIGNIFICANCE (P-VALUE < 0.05)

<sup>++</sup>DENOTES STRONG STATISTICAL SIGNIFICANCE (P-VALUE < 0.01)

WM												
SITE	DICE				HD95 (mm)				ASD (mm)			
	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University
UNC (MAP)	-	0.146	0.001 <sup>++</sup>	0.001 <sup>++</sup>	-	0.336	0.013 <sup>+</sup>	0.013 <sup>+</sup>	-	0.039 <sup>+</sup>	0.002 <sup>++</sup>	0.002 <sup>++</sup>
UNC/UMN (BCP)		-	0.014 <sup>+</sup>	0.008 <sup>++</sup>		-	0.120	0.065		-	0.008 <sup>++</sup>	0.008 <sup>++</sup>
Stanford University			-	0.531			-	0.296			-	0.676
Emory University				-			-	-			-	-

GM												
SITE	DICE				HD95 (mm)				ASD (mm)			
	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University
UNC (MAP)	-	4.130e-5 <sup>++</sup>	1.708e-4 <sup>++</sup>	1.708e-4 <sup>++</sup>	-	0.081	0.003 <sup>++</sup>	0.003 <sup>++</sup>	-	1.387e-4 <sup>++</sup>	2.276e-4 <sup>++</sup>	2.276e-4 <sup>++</sup>
UNC/UMN (BCP)		-	0.008 <sup>++</sup>	0.055		-	0.028 <sup>+</sup>	0.082		-	0.008 <sup>++</sup>	0.315
Stanford University			-	0.012 <sup>+</sup>			-	0.834			-	0.022 <sup>+</sup>
Emory University				-			-	-			-	-

CSF												
SITE	DICE				HD95 (mm)				ASD (mm)			
	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University	UNC (MAP)	UNC/UMN (BCP)	Stanford University	Emory University
UNC (MAP)	-	4.130e-5 <sup>++</sup>	1.708e-4 <sup>++</sup>	1.708e-4 <sup>++</sup>	-	1.432e-4 <sup>++</sup>	1.878e-4 <sup>++</sup>	1.878e-4 <sup>++</sup>	-	4.130e-5 <sup>++</sup>	1.708e-4 <sup>++</sup>	1.708e-4 <sup>++</sup>
UNC/UMN (BCP)		-	0.648	0.171		-	0.121	0.523		-	0.036 <sup>+</sup>	0.008 <sup>++</sup>
Stanford University			-	0.210			-	0.060			-	0.012 <sup>+</sup>
Emory University				-			-	-			-	-

TABLE VII. THE DICE OF THE EIGHT TOP-RANKED TEAMS IN TERMS OF ROIS. (L: LEFT; R: RIGHT)

ROI/TEAM	QL11 1111	Fight Autism	xflz	trung	Tao SMU	CU S IAT	RB	Smart DSP	Average
L hippocampus	0.8718	0.8781	0.8453	0.8687	0.8828	0.8624	0.8731	0.8819	0.8705
R hippocampus	0.8642	0.8826	0.8316	0.8662	0.8744	0.8828	0.8799	0.8797	0.8702
L amygdala	0.8741	0.8690	0.8622	0.8715	0.8859	0.9085	0.8728	0.8748	0.8773
R amygdala	0.8769	0.8812	0.8577	0.8738	0.8842	0.8943	0.8808	0.8780	0.8784
L anterior temporal lobe, medial part	0.9224	0.9165	0.9181	0.9179	0.9240	0.9277	0.9228	0.9167	0.9208
R anterior temporal lobe, medial part	0.9272	0.9220	0.9189	0.9229	0.9234	0.9309	0.9283	0.9206	0.9243
L anterior temporal lobe, lateral part	0.8902	0.8880	0.8850	0.8866	0.8952	0.8973	0.8963	0.8850	0.8904
R anterior temporal lobe, lateral part	0.8952	0.8932	0.8884	0.8926	0.8908	0.9010	0.9029	0.8905	0.8943
<b>L parahippocampal and ambient gyri</b>	0.8869	0.8928	0.8650	0.8860	0.8946	0.8929	0.8912	0.8911	0.8876
<b>R parahippocampal and ambient gyri</b>	0.8824	0.8895	0.8555	0.8833	0.8864	0.8878	0.8930	0.8869	0.8831
L superior temporal gyrus, posterior part	0.9039	0.9046	0.8951	0.9010	0.9070	0.9001	0.9099	0.9020	0.9029
R superior temporal gyrus, posterior part	0.9099	0.9063	0.9017	0.9082	0.9116	0.9263	0.9154	0.9050	0.9106
L middle and inferior temporal gyrus	0.9154	0.9145	0.9080	0.9131	0.9183	0.9192	0.9197	0.9113	0.9149
R middle and inferior temporal gyrus	0.9180	0.9150	0.9099	0.9163	0.9183	0.9299	0.9253	0.9150	0.9185
L fusiform gyrus	0.8942	0.8933	0.8803	0.8893	0.8998	0.9141	0.8930	0.8933	0.8947
R fusiform gyrus	0.8946	0.8921	0.8774	0.8941	0.8959	0.8987	0.8992	0.8916	0.8930
L insula	0.9177	0.9096	0.9081	0.9113	0.9156	0.9316	0.9157	0.9074	0.9146
R insula	0.9120	0.9050	0.9046	0.9079	0.9131	0.9175	0.9124	0.9073	0.9100
L lateral remainder of occipital lobe	0.9332	0.9308	0.9203	0.9301	0.9320	0.9379	0.9362	0.9281	0.9311



R lateral remainder of occipital lobe	0.9300	0.9277	0.9189	0.9298	0.9310	0.9337	0.9354	0.9273	0.9292
L cingulate gyrus, anterior part	0.9155	0.9113	0.9045	0.9106	0.9105	0.9245	0.9092	0.9090	0.9119
R cingulate gyrus, anterior part	0.9194	0.9114	0.9037	0.9155	0.9111	0.9168	0.9092	0.9076	0.9118
L cingulate gyrus, posterior part	0.9259	0.9209	0.9169	0.9249	0.9231	0.9197	0.9180	0.9187	0.9210
R cingulate gyrus, posterior part	0.9240	0.9216	0.9167	0.9229	0.9204	0.9188	0.9178	0.9187	0.9201
L middle frontal gyrus	0.9331	0.9334	0.9296	0.9303	0.9325	0.9381	0.9333	0.9291	0.9324
R middle frontal gyrus	0.9372	0.9339	0.9311	0.9362	0.9366	0.9394	0.9356	0.9331	0.9354
L Posterior temporal lobe	0.9309	0.9298	0.9229	0.9297	0.9307	0.9354	0.9347	0.9281	0.9303
R Posterior temporal lobe	0.9294	0.9303	0.9209	0.9293	0.9317	0.9276	0.9346	0.9273	0.9289
L inferiolateral remainder of parietal lobe	0.9328	0.9293	0.9265	0.9299	0.9314	0.9351	0.9317	0.9265	0.9304
R inferiolateral remainder of parietal lobe	0.9288	0.9280	0.9217	0.9273	0.9285	0.9253	0.9265	0.9250	0.9264
L caudate nucleus	0.9221	0.9227	0.9060	0.9204	0.9218	0.9262	0.9245	0.9198	0.9204
R caudate nucleus	0.9207	0.9218	0.9086	0.9211	0.9226	0.9221	0.9266	0.9203	0.9205
L nucleus accumbens	0.8896	0.8824	0.8871	0.8846	0.8912	0.9082	0.8906	0.8791	0.8891
R nucleus accumbens	0.9053	0.8969	0.8934	0.9026	0.9032	0.9071	0.8937	0.8936	0.8995
L putamen	0.9030	0.8878	0.8920	0.8906	0.9046	0.9232	0.8996	0.8854	0.8983
R putamen	0.8987	0.8886	0.8903	0.8935	0.9020	0.9179	0.8979	0.8915	0.8975
L thalamus	0.9110	0.9184	0.9088	0.9114	0.9153	0.9173	0.9084	0.9122	0.9128
R thalamus	0.9108	0.9189	0.9120	0.9148	0.9206	0.9294	0.9138	0.9179	0.9173
L pallidum	0.8542	0.8502	0.8440	0.8482	0.8631	0.8499	0.8545	0.8381	0.8503
R pallidum	0.8567	0.8549	0.8511	0.8543	0.8682	0.8861	0.8577	0.8552	0.8605
Corpus callosum	0.8863	0.8873	0.8786	0.8861	0.8843	0.9011	0.8771	0.8788	0.8849
L lateral ventricle (excluding temporal horn)	0.8862	0.8905	0.8824	0.8855	0.8890	0.8910	0.8819	0.8838	0.8863
R lateral ventricle (excluding temporal horn)	0.8952	0.8970	0.8921	0.8928	0.8951	0.9089	0.8902	0.8906	0.8952
L lateral ventricle, temporal horn	0.6589	0.6651	0.6079	0.6439	0.6876	0.5867	0.6368	0.6788	0.6457
R lateral ventricle, temporal horn	0.7076	0.7204	0.6455	0.6836	0.7078	0.7187	0.6968	0.7072	0.6984
Third ventricle	0.8560	0.8747	0.8542	0.8669	0.8621	0.8674	0.8496	0.8615	0.8616
L precentral gyrus	0.9074	0.9058	0.8994	0.9054	0.9076	0.9225	0.9110	0.8982	0.9072
R precentral gyrus	0.9121	0.9094	0.8970	0.9105	0.9066	0.9192	0.9058	0.9068	0.9084
<b>L straight gyrus</b>	0.8864	0.8810	0.8597	0.8749	0.8855	0.8918	0.8844	0.8725	0.8795
<b>R straight gyrus</b>	0.8916	0.8798	0.8595	0.8781	0.8957	0.8801	0.8820	0.8726	0.8800
L anterior orbital gyrus	0.9174	0.9134	0.9066	0.9105	0.9167	0.9106	0.9185	0.9123	0.9133
R anterior orbital gyrus	0.9172	0.9088	0.9070	0.9160	0.9185	0.9093	0.9130	0.9083	0.9122
L inferior frontal gyrus	0.9242	0.9216	0.9177	0.9209	0.9224	0.9330	0.9258	0.9165	0.9228
R inferior frontal gyrus	0.9225	0.9184	0.9135	0.9215	0.9229	0.9240	0.9217	0.9161	0.9200
L superior frontal gyrus	0.9329	0.9332	0.9306	0.9306	0.9325	0.9389	0.9333	0.9313	0.9329
R superior frontal gyrus	0.9347	0.9313	0.9295	0.9323	0.9338	0.9380	0.9339	0.9307	0.9330
L postcentral gyrus	0.9023	0.8970	0.8916	0.8984	0.9025	0.9144	0.9045	0.8900	0.9001
R postcentral gyrus	0.8959	0.8966	0.8786	0.8948	0.8884	0.9009	0.8856	0.8898	0.8913
L superior parietal gyrus	0.9356	0.9318	0.9262	0.9333	0.9329	0.9337	0.9334	0.9309	0.9322
R superior parietal gyrus	0.9331	0.9312	0.9234	0.9308	0.9309	0.9288	0.9304	0.9291	0.9297
<b>L lingual gyrus</b>	0.8468	0.8356	0.8305	0.8444	0.8543	0.8525	0.8415	0.8349	0.8426
<b>R lingual gyrus</b>	0.8533	0.8415	0.8294	0.8609	0.8651	0.8532	0.8538	0.8352	0.8490
L cuneus	0.9026	0.8963	0.8840	0.9022	0.8994	0.9190	0.9145	0.8962	0.9018
R cuneus	0.9036	0.8967	0.8874	0.9034	0.9026	0.9081	0.9147	0.8993	0.9020
L medial orbital gyrus	0.9025	0.8975	0.8877	0.8959	0.8999	0.9007	0.9066	0.8946	0.8982
R medial orbital gyrus	0.9078	0.8949	0.8918	0.9007	0.9056	0.9069	0.9025	0.8968	0.9009
L lateral orbital gyrus	0.8984	0.8938	0.8873	0.8921	0.8962	0.8894	0.9009	0.8919	0.8937
R lateral orbital gyrus	0.8980	0.8936	0.8898	0.9003	0.9021	0.8998	0.8964	0.8927	0.8966
L posterior orbital gyrus	0.9265	0.9207	0.9143	0.9213	0.9251	0.9166	0.9256	0.9195	0.9212
R posterior orbital gyrus	0.9236	0.9157	0.9104	0.9224	0.9246	0.9192	0.9180	0.9156	0.9187
L substantia nigra	0.7164	0.7135	0.7068	0.6849	0.7232	0.7811	0.6825	0.7014	0.7137
R substantia nigra	0.6752	0.7017	0.7042	0.6965	0.7029	0.7473	0.6710	0.7209	0.7025
L subgenual frontal cortex	0.9020	0.8993	0.8805	0.8942	0.8983	0.8974	0.9018	0.8943	0.8960
R subgenual frontal cortex	0.9072	0.9033	0.8867	0.8995	0.9035	0.9028	0.9029	0.8983	0.9005
L subcallosal area	0.8212	0.7986	0.7920	0.8093	0.8108	0.8205	0.8020	0.7909	0.8057
R subcallosal area	0.8212	0.8021	0.7970	0.8143	0.8157	0.8375	0.8032	0.7937	0.8106
L pre-subgenual frontal cortex	0.8883	0.8759	0.8505	0.8691	0.8840	0.8631	0.8751	0.8680	0.8717
R pre-subgenual frontal cortex	0.8817	0.8541	0.8427	0.8550	0.8817	0.8407	0.8618	0.8487	0.8583
L superior temporal gyrus, anterior part	0.9106	0.9070	0.9038	0.9073	0.9075	0.9187	0.9155	0.9026	0.9091
R superior temporal gyrus, anterior part	0.9046	0.9012	0.8996	0.9021	0.9080	0.9123	0.9082	0.8995	0.9045

TABLE VIII. THE P-VALUE BY PERFORMING WILCOXON SIGNED-RANK TESTS ON MEDIAN HD95 IN TERMS OF GYRAL LANDMARK CURVES.

\*DENOTES WEAK STATISTICAL SIGNIFICANCE (P-VALUE < 0.05)

\*\*DENOTES STRONG STATISTICAL SIGNIFICANCE (P-VALUE < 0.01)

TEAM	QL111111	FightAutism	xflz	Trung	Tao_SMU	CU_SLAT	RB	SmartDSP
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<i>QL111111</i>	-	0.285	0.109	0.285	0.593	0.109	0.593	0.109
<i>FightAutism</i>		-	1.000	0.285	0.593	1.000	0.109	1.000
<i>xfIz</i>			-	1.000	1.000	0.593	1.000	0.109
<i>trung</i>				-	1.000	0.285	1.000	0.285
<i>Tao_SMU</i>					-	0.109	0.593	0.285
<i>CU_SIAT</i>						-	0.285	0.285
<i>RB</i>							-	0.109
<i>SmartDSP</i>								-

TABLE IX. SOURCE CODES FROM THE EIGHT TOP-RANKED TEAMS IN THE ISEG-2019.

TEAM	LINK
<i>QL111111</i>	<a href="https://github.com/desperado11/iseg-2019-infant-brain-segmentation">https://github.com/desperado11/iseg-2019-infant-brain-segmentation</a>
<i>FightAutism</i>	<a href="https://github.com/JunMal1/iseg2019">https://github.com/JunMal1/iseg2019</a>
<i>xfIz</i>	<a href="https://github.com/xf4j/iseg2019">https://github.com/xf4j/iseg2019</a>
<i>trung</i>	<a href="https://github.com/tphankr/Cross-linked-FC-DenseNet">https://github.com/tphankr/Cross-linked-FC-DenseNet</a>
<i>Tao_SMU</i>	<a href="https://github.com/TaoZhong11/Attention-guided-Full-resolution-Network-for-iSeg-2019-challenge">https://github.com/TaoZhong11/Attention-guided-Full-resolution-Network-for-iSeg-2019-challenge</a>
<i>CU_SIAT</i>	<a href="https://github.com/CaiziLee/iSeg-2019">https://github.com/CaiziLee/iSeg-2019</a>
<i>RB</i>	<a href="https://github.com/basnetr/U-DenseResNet/">https://github.com/basnetr/U-DenseResNet/</a>
<i>SmartDSP</i>	<a href="https://github.com/mawenao/iSeg2019">https://github.com/mawenao/iSeg2019</a>

TABLE X. EVALUATION OF MANUAL LABELS IN THE ISEG-2019 CHALLENGE ACCORDING TO A UNIVERSAL SCALING LAW [1].  
UNIVERSAL LAW:  $(1.23 \pm 0.01) \times \log_{10} GV - \log_{10} WV \approx 1.47 \pm 0.04$ 

	Subject Number	GM-Volume (GV)	WM-Volume (WV)	$(1.23 \pm 0.01) \times \log_{10} GV - \log_{10} WV$
Training	1	427956	295315	1.46
	2	376296	231759	1.49
	3	376296	254514	1.45
	4	297260	204533	1.48
	5	411321	270424	1.47
	6	358723	231613	1.47
	7	373037	253222	1.45
	8	372702	229934	1.49
	9	389440	308081	1.44
	10	394036	178942	1.57
Validation	11	358468	215776	1.50
	12	331524	206984	1.47
	13	430091	265271	1.51
	14	371868	224850	1.50
	15	390731	231229	1.51
	16	405741	298101	1.48
	17	303762	196442	1.45
	18	363483	255067	1.43
	19	347025	251758	1.47
	20	465229	260866	1.50
	21	376599	211001	1.48
	22	470383	259290	1.51
	23	399329	227861	1.48
Testing	24	375311	283677	1.46
	25	326099	250134	1.44
	26	375443	306527	1.43
	27	370834	285334	1.45
	28	385082	296227	1.45
	29	402883	340623	1.42
	30	361834	264223	1.47
	31	338787	270984	1.42
	32	352462	268700	1.45

	33	376857	286697	1.46
	34	343272	260011	1.45
	35	361771	273900	1.45
	36	359939	271762	1.46
	37	284269	210443	1.44
	38	354506	266971	1.46
	39	312832	222201	1.47

Note: [1]K. Zhang and T. J. Sejnowski, "A universal scaling law between gray matter and white matter of cerebral cortex," Proceedings of the National Academy of Sciences, vol. 97, no. 10, pp. 5621-5626, 2000.

TABLE XI. PERFORMANCE RANKING OF PARTICIPATING TEAMS. (R: RANK; F-R: FINAL RANK)

TEAM	CSF-DICE	R	CSF-HD95	R	CSF-ASD	R	GM-DICE	R	GM-HD95	R	GM-ASD	R	WM-DICE	R	WM-HD95	R	WM-ASD	R	SCORE	F-R
QL111111	0.834	2	12.309	11	0.553	6	0.835	1	7.819	5	0.512	1	0.877	1	8.022	4	0.474	1	3.110	1
Tao SMU	0.834	1	12.197	10	0.54	3	0.832	2	8.143	11	0.544	2	0.864	3	8.598	12	0.508	2	5.132	2
FightAutism	0.826	6	12.76	19	0.571	11	0.829	4	7.306	1	0.561	5	0.863	4	8.109	5	0.523	5	5.648	3
xfz	0.826	7	12.127	8	0.556	7	0.825	7	8.13	10	0.558	4	0.861	5	7.308	1	0.522	3	5.843	4
SmartDSP	0.829	5	12.387	12	0.559	8	0.831	3	7.898	9	0.554	3	0.864	2	8.915	18	0.522	4	6.655	5
CU SIAT	0.829	3	13.679	25	0.61	15	0.826	5	7.535	2	0.566	6	0.855	8	8.639	14	0.561	10	8.479	6
trung	0.807	18	13.483	23	0.684	23	0.823	8	7.599	3	0.571	10	0.860	6	8.466	8	0.533	6	10.048	7
SISE	0.823	8	11.541	5	0.522	2	0.813	12	8.577	22	0.569	8	0.843	12	8.578	11	0.564	11	11.202	-
RB	0.807	18	13.728	27	0.699	24	0.814	10	7.834	6	0.571	9	0.860	7	8.5	9	0.553	9	11.557	8
SJTU-IMT	0.821	11	11.678	7	0.522	2	0.812	13	7.87	8	0.582	11	0.842	15	9.293	20	0.618	15	11.633	9
VIPSL	0.818	13	11.155	3	0.559	9	0.802	15	8.274	13	0.599	15	0.832	17	7.674	3	0.594	12	11.887	10
WYF2019DUT	0.829	4	14.792	28	0.546	4	0.826	6	17.002	28	0.568	7	0.85	10	8.652	15	0.547	8	12.480	11
brain gen	0.823	10	12.451	13	0.575	12	0.8	17	7.86	7	0.597	14	0.841	16	8.337	7	0.624	16	12.549	12
WorldSeg	0.802	23	13.697	26	0.701	25	0.821	9	8.346	18	0.589	13	0.854	9	7.549	2	0.54	7	13.569	13
BIG	0.81	16	12.806	20	0.648	21	0.79	19	7.723	4	0.588	12	0.843	12	8.621	13	0.63	17	13.996	14
MA SmartDSP	0.823	9	11.205	4	0.546	5	0.795	18	8.462	20	0.604	17	0.83	18	8.178	6	0.64	18	14.290	15
Brain Tech	0.815	14	12.9	21	0.618	18	0.804	14	8.331	17	0.602	16	0.843	12	8.503	10	0.603	13	14.876	16
PerceptionComputingLab HIT	0.810	16	12.644	16	0.63	19	0.814	10	8.326	16	0.605	18	0.844	11	8.825	17	0.607	14	14.975	17
Road	0.803	22	12.722	17	0.658	22	0.801	16	8.297	14	0.659	21	0.826	20	9.131	19	0.653	20	18.553	18
Guardian620	0.814	15	11.557	6	0.587	13	0.778	20	8.759	24	0.672	23	0.783	22	8.692	16	0.702	21	19.095	19
OxfordBME	0.806	21	12.158	9	0.614	16	0.778	20	8.694	23	0.621	19	0.828	19	9.525	22	0.644	19	19.289	20
SLHC MICCAI	0.82	12	12.738	18	0.607	14	0.771	22	8.911	25	0.622	20	0.816	21	9.315	21	0.728	22	20.341	21
Climb Mountains	0.807	18	12.614	15	0.618	18	0.748	24	8.188	12	0.695	24	0.767	23	9.843	25	0.904	24	20.571	22
long	0.788	26	9.503	1	0.565	10	0.735	25	9.14	26	0.663	22	0.762	24	9.653	23	0.828	23	21.388	23
MASI(baseline)	0.713	29	13.177	22	0.797	28	0.709	28	8.307	15	0.767	25	0.72	26	9.802	24	1.093	26	24.293	24
nic vicorob	0.777	27	13.604	24	0.79	27	0.751	23	8.523	21	0.791	27	0.749	25	10.507	26	1.038	25	24.692	25
emc Brain	0.765	28	12.558	14	0.754	26	0.724	26	8.45	19	0.908	29	0.643	28	14.367	29	1.568	29	25.457	26
lyh	0.792	25	62.194	29	0.632	20	0.705	29	18.795	29	0.775	26	0.699	27	13.66	27	1.11	27	26.960	27
UBC001	0.699	30	9.806	2	0.838	29	0.66	30	9.886	27	0.961	30	0.635	30	13.865	28	1.693	30	27.198	28
tiantian	0.796	24	101.137	30	0.862	30	0.713	27	20.358	30	0.802	28	0.642	29	16.117	30	1.288	28	28.465	29

Note: we cannot include the SISE team into the 8 top-ranked methods, because the testing results of SISE team was submitted after we have prepared this review article. To avoid missing any good methods that submitted at a later stage, we discussed them in Section V.