False negative rate calculations

Experiments

1. Experiment 1: clip the probabilities at 0.999 and 0.001 (original)
2. Experiment 2: clip the probabilities at 0.9999 and 0.0001
3. Experiment 3: run 20 iterations of the EM algorithm (original)
4. Experiment 4: run 50 iterations of the EM algorithm
5. Experiment 5: run 100 iterations of the EM algorithm
6. Experiment 6: initial probabilities are 0.5 (original)
7. Experiment 7: initial probabilities are 0.25
8. Experiment 8: initial probabilities are 0.75

Case 2: left hippocampus is affected

	Experiment 1	Experiment 2	Experiment 3	Experiment 4	Experiment 5	Experiment 6	Experiment 7	Experiment 8
Everything	0.010	0.012	0.007	0.016	0.015	0.012	0.009	0.012
Telencephalon	0.010	0.012	0.007	0.016	0.015	0.012	0.009	0.012
Cerebral cortex	0.010	0.012	0.007	0.016	0.015	0.012	0.009	0.012
Limbic system	0.010	0.012	0.007	0.016	0.015	0.012	0.009	0.012
Hippocampus level 2	0.010	0.012	0.007	0.016	0.015	0.012	0.009	0.012
Hippocampus level 1	0.010	0.012	0.007	0.016	0.015	0.012	0.009	0.012

Experiments

1. Experiment 1: clip the probabilities at 0.999 and 0.001 (original)
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7. Experiment 7: initial probabilities are 0.25
8. Experiment 8: initial probabilities are 0.75

Case 3: both are affected (positive control)

	Experiment 1	Experiment 2	Experiment 3	Experiment 4	Experiment 5	Experiment 6	Experiment 7	Experiment 8
Everything	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Telencephalon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cerebral cortex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limbic system	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hippocampus level 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hippocampus level 1	0.489	0.518	0.516	0.498	0.531	0.503	0.475	0.504
Amygdala level 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amygdala level 1	0.511	0.482	0.484	0.502	0.469	0.497	0.525	0.496

Experiments

1. Experiment 1: clip the probabilities at 0.999 and 0.001 (original)
2. Experiment 2: clip the probabilities at 0.9999 and 0.0001
3. Experiment 3: run 20 iterations of the EM algorithm (original)
4. Experiment 4: run 50 iterations of the EM algorithm
5. Experiment 5: run 100 iterations of the EM algorithm
6. Experiment 6: initial probabilities are 0.5 (original)
7. Experiment 7: initial probabilities are 0.25
8. Experiment 8: initial probabilities are 0.75

Case 4: either left hippocampus or left amygdala are affected but not both

	Experiment 1	Experiment 2	Experiment 3	Experiment 4	Experiment 5	Experiment 6	Experiment 7	Experiment 8
Everything	0.0	0.001	0.001	0.005	0.004	0.002	0.004	0.001
Telencephalon	0.0	0.001	0.001	0.005	0.004	0.002	0.004	0.001
Cerebral cortex	0.0	0.001	0.001	0.005	0.004	0.002	0.004	0.001
Limbic system	0.0	0.001	0.001	0.005	0.004	0.002	0.004	0.001
Hippocampus level 2	0.14	0.143	0.135	0.134	0.150	0.141	0.161	0.134
Hippocampus level 1	0.502	0.511	0.524	0.521	0.561	0.527	0.532	0.521
Amygdala level 2	0.145	0.137	0.150	0.137	0.135	0.146	0.154	0.149
Amygdala level 1	0.552	0.544	0.545	0.541	0.495	0.527	0.537	0.537