

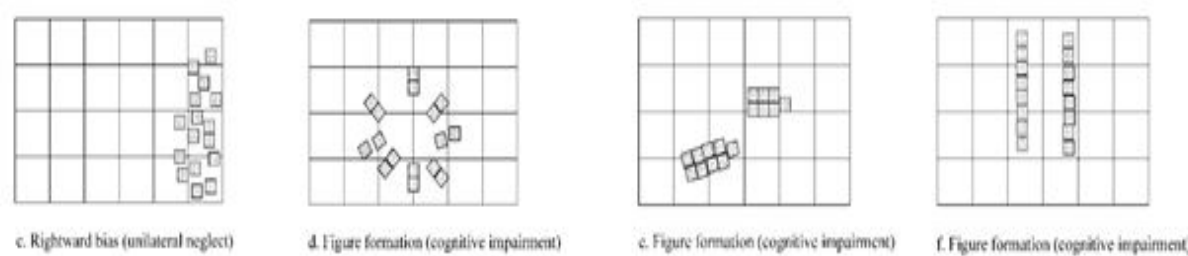
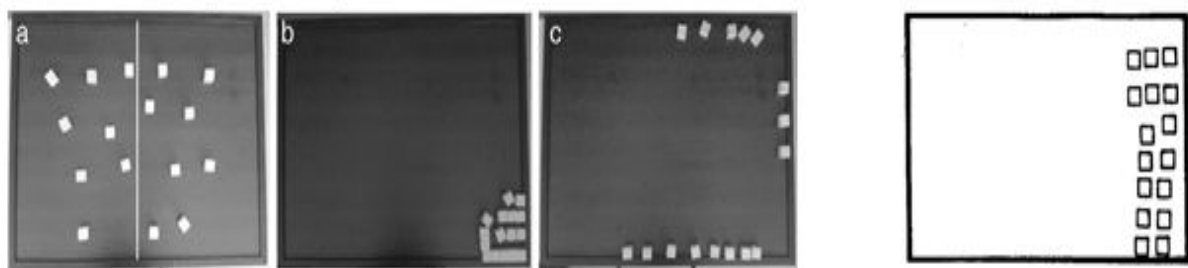
An integrative tool to assess and evaluate spatial cognition with tangible interfaces and AI systems

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Topic

Develop a tool to assess spatial cognition providing an accurate evaluation for each person

Analyze how people explore their peripersonal space and establish, if needed, a rehabilitation program based on specific needs of subjects



Problems

The majority of neuropsychological tests are in paper-and-pencil form and are affected by the practice

Some ecological tests (such as the Baking Tray Task, BTT) provide a *too simple* identification of a certain disorder (ndr Neglect) leaving unclassified other impairments

Goals

Find new informative indexes for tests such as the Baking Tray Task, useful for clinicians in order to evaluate the "behavior" showed by participants in terms of performance

Automatize, through ML systems, the scoring of the test

Identify other kind of activities that regards spatial cognition and peripersonal space, in order to extend the applications of our prototype

Index	X	Y	TypeOfData	Ideal X	Ideal Y	Single Cube Time
16	82	376	cube	616	390	3
18	82	284	cube	616	277	5
12	84	163	cube	440	390	8
10	48	31	cube	440	167	10
6	241	390	cube	264	167	12
13	211	290	cube	616	85	14
14	206	179	cube	616	167	16
7	215	44	cube	264	277	17
1	383	399	cube	88	85	19
2	384	282	cube	88	167	20
11	389	177	cube	440	277	21
5	400	46	cube	264	85	23
3	568	407	cube	88	277	24
9	556	299	cube	440	85	25
8	553	185	cube	264	390	27
4	565	60	cube	88	390	39

