Who will teach in the Intelligence Society?

Senen.barro@usc.es



@SenenBarro

















= EL PAÍS Tecnología

"La distancia entre el campeón del mundo de ajedrez y las máquinas es mayor que entre Usain Bolt y un Ferrari"

Gari Kasparov participa en un encuentro en Milán organizado por 'La Repubblica' y otros diarios europeos, entre ellos EL PAIS

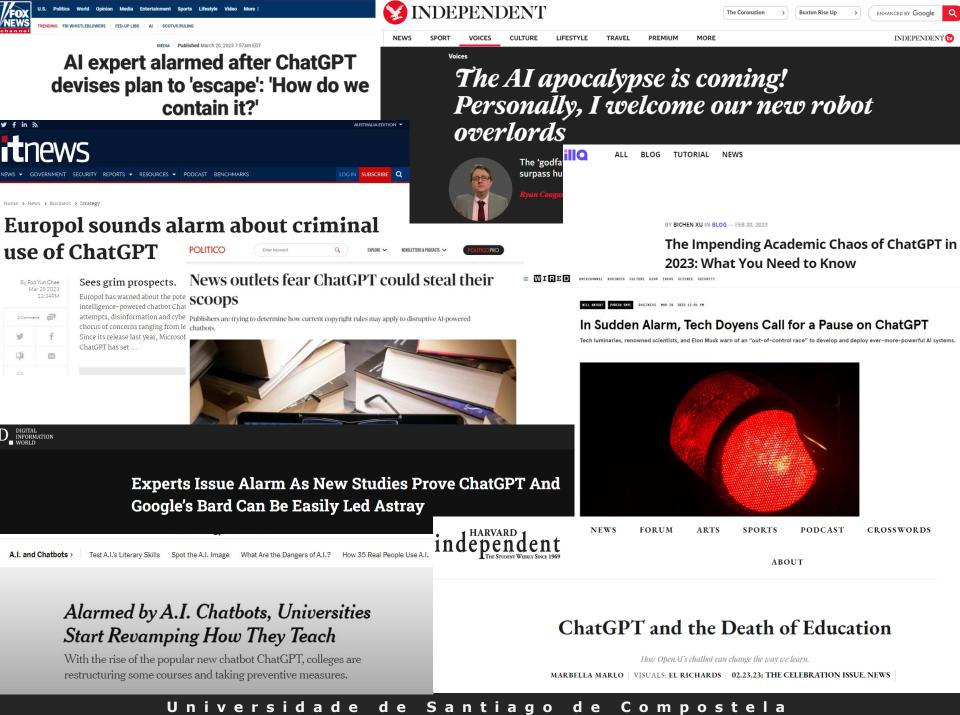
The distance between the world chess champion and machines is greater than between Usain Bolt and a Ferrari



NEWSLETTER

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Gari Kasparov, 2019

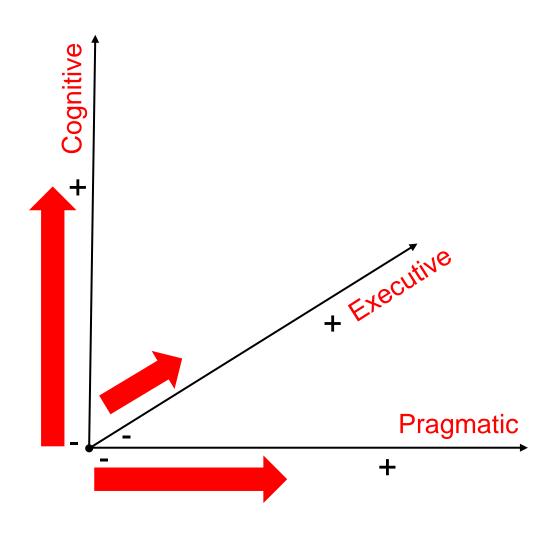


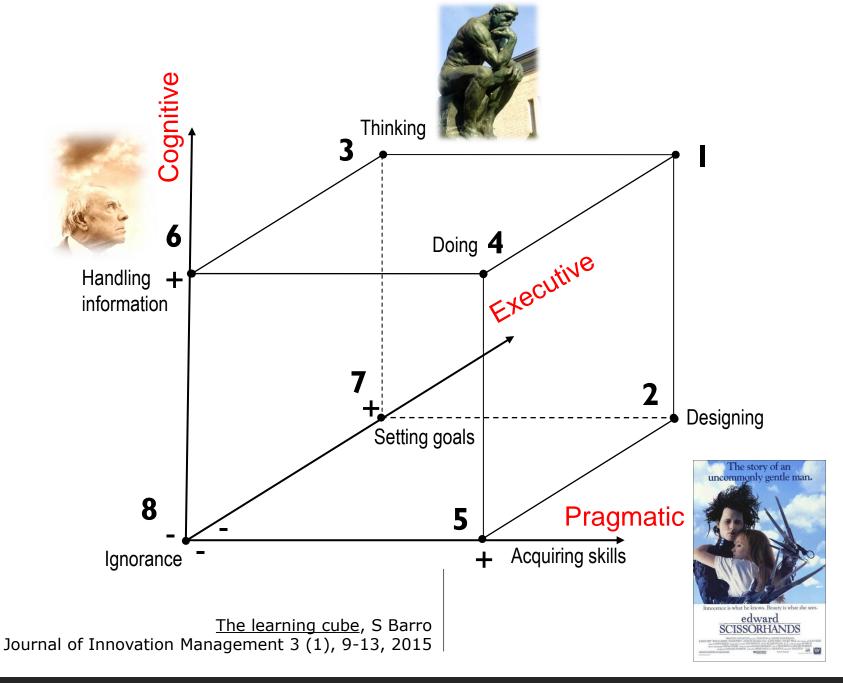


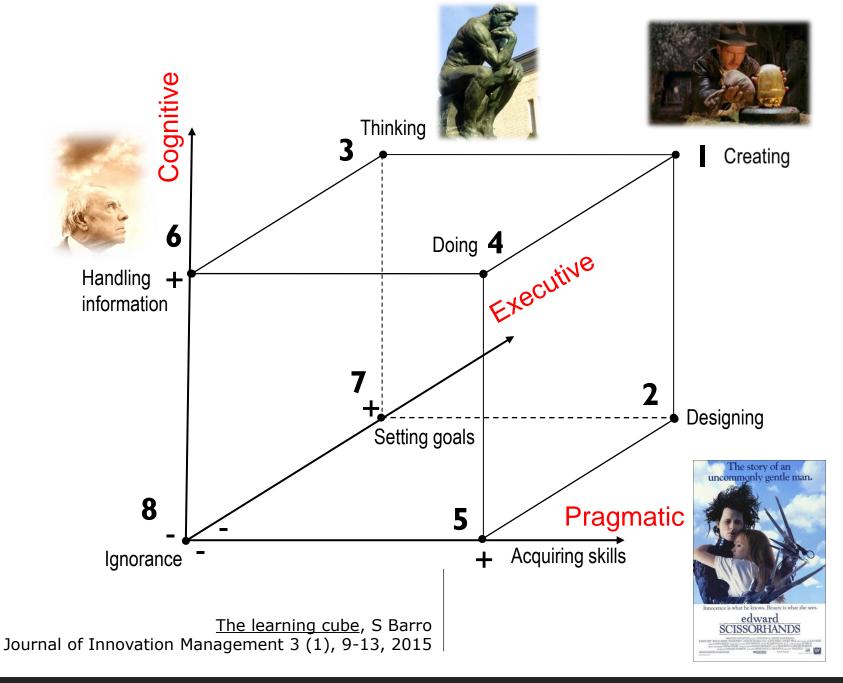
The paradox of mechanised education

We are 20th century teachers, in 19th century classrooms, with 21st century students.

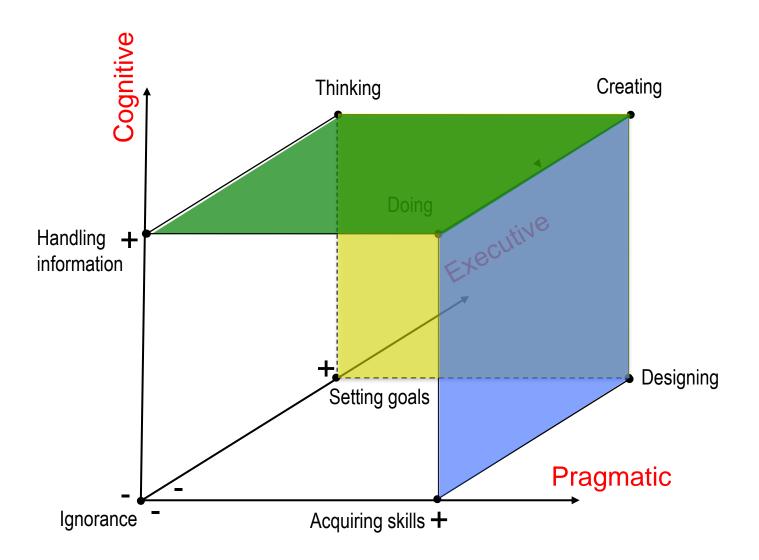
The Learning Cube





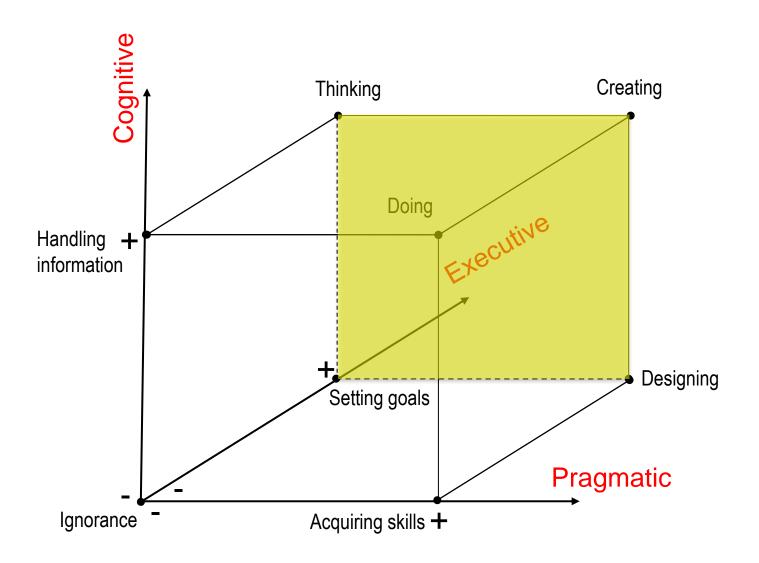


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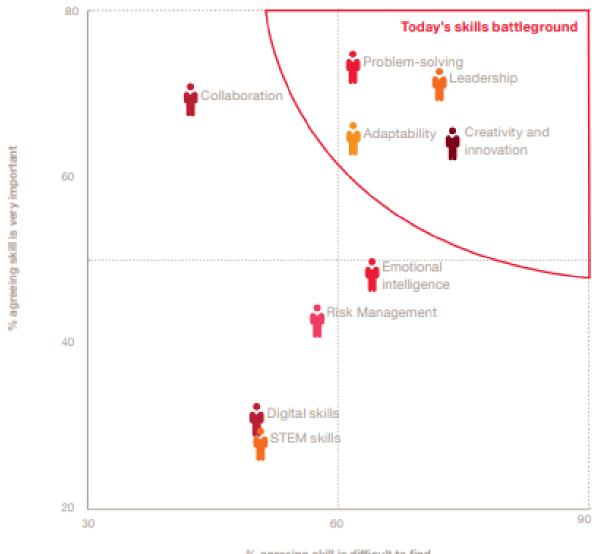
The Learning Cube

Which face do you prefer?



The Learning Cube

Which face do you prefer?



% agreeing skill is difficult to find

What are employers demanding?

Source: CEO Survey Global Talent (pwc.com)

Learning society

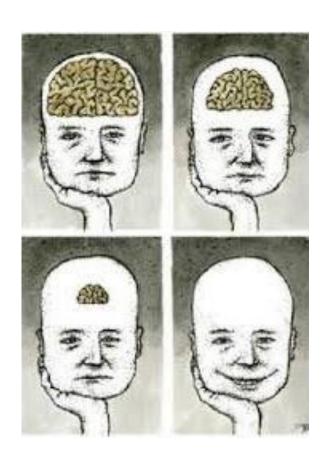
We need to learn at least as fast as the environment is changing



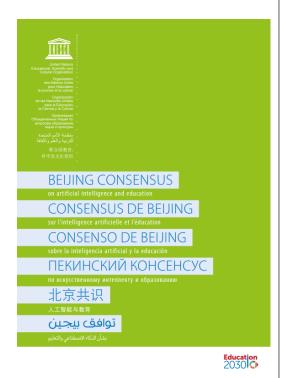
José Antonio Marina

Intelligence society

Natural & Artificial



AI in education





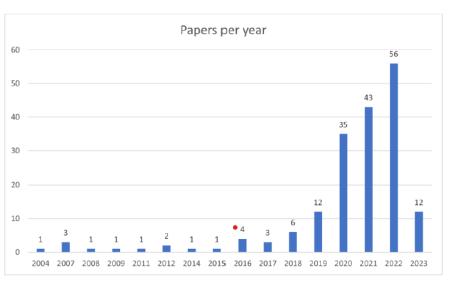


REVIEW Open Access

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Al literacy in K-12: a systematic literature review

Lorena Casal-Otero¹, Alejandro Catala^{2,3*}, Carmen Fernández-Morante¹, Maria Taboada², Beatriz Cebreiro¹, and Senén Barro³





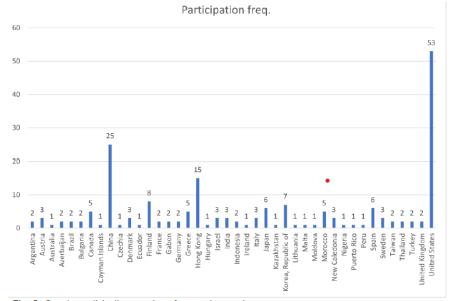
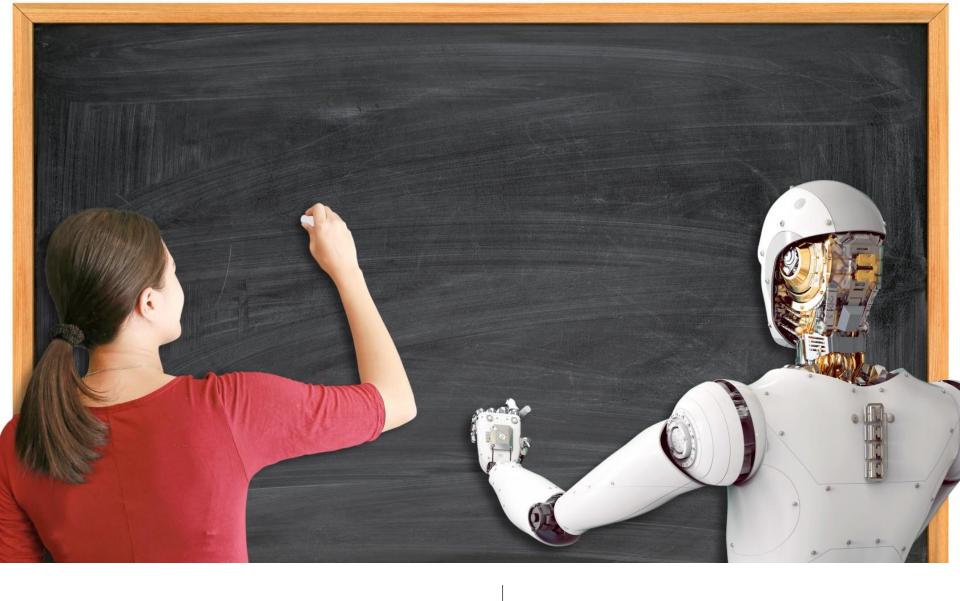


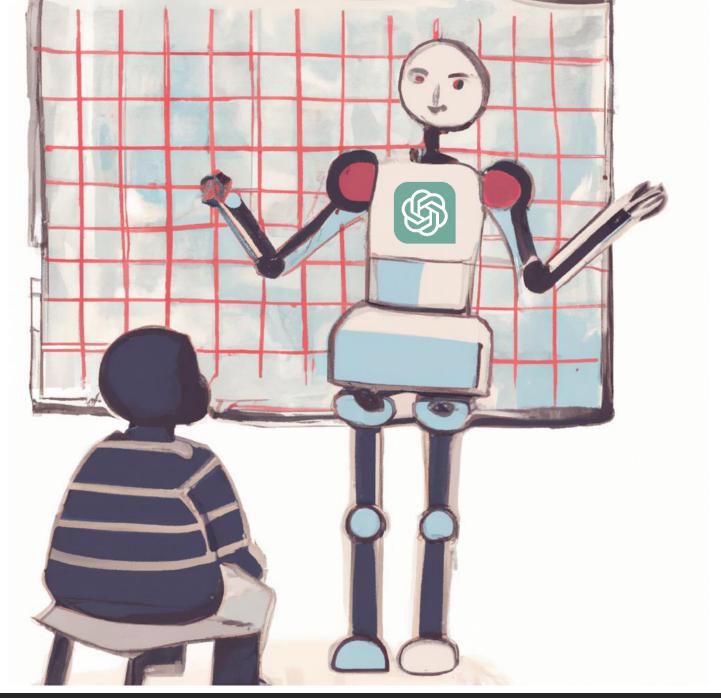
Fig. 5 Country participation: number of papers by country

The use of AI in education: it goes on and on

| Category of actions/services | Specific actions/services |
|---|--|
| Management | Admissions, enrolment, information (virtual assistants), scholarship allocation, assignment of teaching resources, activity planning |
| Personalized support | Financial advice, visa services, accommodation, career guidance |
| Anticipation | Predictive performance models, dropout prediction, detection of psychological issues |
| Assisted learning | Tutoring, supervision of discussion forums |
| Curriculum design | Subscription models, curriculum pathways |
| Educational environments | Immersive classrooms, simulators |
| Technological tools | Translators, search engines, conversational language models (ChatGPT) |
| Teaching and learning process analytics | Student categorization, curriculum design and program organization and delivery (for the institution/organization) |
| Surveillance | Attendance monitoring, attention monitoring in classes, campus surveillance, monitoring of student's mood |
| Personalized learning | Content suggestions, personalized assistants for learning |



PAL Personal Assistants for Learning



× 18

Is the teacher irreplaceable?

Any [natural] intelligence which performs an activity that can be improved by being performed by another [artificial] intelligence is liable to be replaced by that one

Principle of substitution based on progress (Senén Barro)

The best education will continue to be in the hands of the best teachers

Senen.barro@usc.es

universidade de santiago de compostela

