



## What's New



### NatGeo sponsors new robot

The SenseSeat project features a chair that isolates you from your surroundings in an immersive experience. It became a platform for a recent partnership between ISR and M-ITI. Rute Luz, along with supervisors Rodrigo Ventura and José Luís Silva, explained how the opportunity came up to participate in a competition promoted by National Geographic. Learn more about the upcoming possibilities to provide a complex immersive experience and how it relates to a newly arrived robot, sponsored by a National Geographic initiative: <https://bit.ly/2VFRQII>



### Master Distinguished by SPR

The Portuguese Society of Robotics annually awards students with distinguished PhD or MSc thesis. During the 19th IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC'2019), in Gondomar, João Cartucho was awarded as co-winner of the SPR Award for the Best MSc Thesis on Robotics in Portugal during 2018. In the same event João Gonçalves presented his paper "Grasp Planning with Incomplete Knowledge About the Object to be Grasped", a candidate to the Best Paper Award of IEEE ICARSC 2019.

# Opportunities & Events



## Post-doc Researcher

Applications are open for a fully funded Post-doc Researcher position, at the Institute for Systems and Robotics (ISR), Instituto Superior Técnico (IST), University of Lisbon, Portugal. The selected candidate will be part of the research team of project REPLACE, addressing the fast package delivery in urban environments using drones, explicitly considering their limitations by using drone relays to enable effective package delivery to destinations that go beyond the flight range and autonomy of a single drone.



## Fórum BioData.pt

The BioData forum aims at uniting national companies in the fields of Health, Ocean, Agriculture and Bioindustry to discuss how a big portion of produced biodata is still unused by the industry. The program will focus on promoting best practices, management and biodata usage, as well as sharing important bioinformatic tools. The event will take place May 6 2019 from 2:30 to 6pm at Anfiteatro Ionians of Instituto Gulbenkian de Ciência. Participation is free. Learn more about the program: <https://bit.ly/2VfZ3JC>



## Swiss&Portuguese Congress

During the congress on May 2nd and 3rd, at the Champalimaud Foundation, Swiss and Portuguese scientists and science policy players will both discuss the institutional and administrative aspects that determine the course of research and share new discoveries and future hopes. The event is open to all interested parties to participate in the congress with hopes of counting on the interest of a large audience in the discoveries of Swiss and Portuguese scientists who share a fascination with the unknown.



## Urban Analytics School

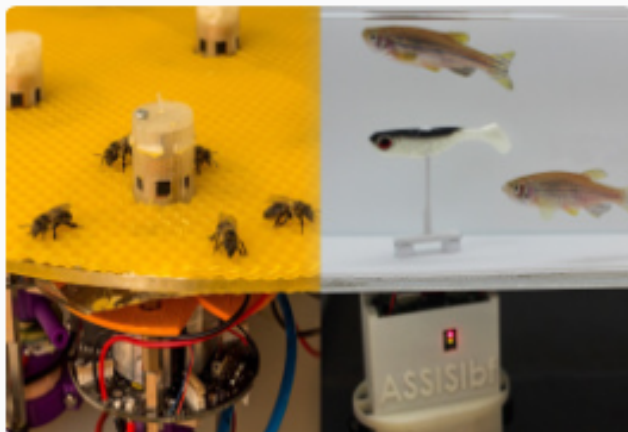
An IN+ course designed for PhD candidates interested in acquiring a comprehensive introduction to analytical tools for urban evaluation; Master's students with research experience and interest in developing urban analytics skills; and professionals interested in expanding their skills. The program will progress from data collection, storage and processing, through analysis and interpretation, to visual presentation of the results. More: <https://bit.ly/2ZOAH8e>

# Media & Culture



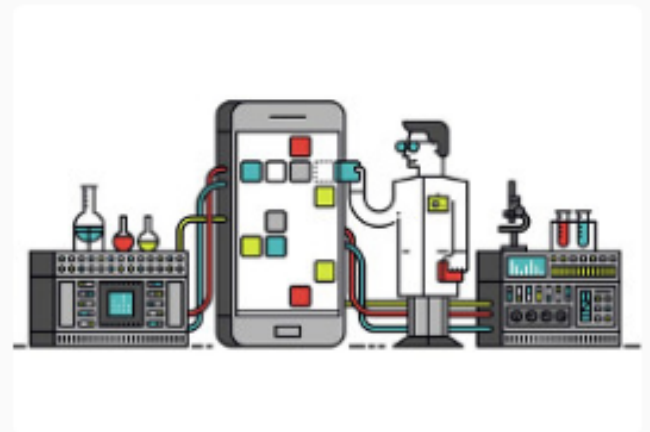
## PubhD de Lisboa

Are you willing to talk about your PhD in a bar in exchange for drinks? Once a month PhD and Post-Doc students are challenged to present their research without any aids, to a non-specialist but interested audience. Besides being a chance to practice communicating with the public and learning from speakers from different fields, participating can be a way to gain new perspectives on your work. Learn more on [pubhdlisboa.wordpress.com](http://pubhdlisboa.wordpress.com)



## Robots Help Bees Talk to Fish

An international team, which included Portuguese scientists, has developed a way for zebrafish and a colony of bees to communicate, using robots as intermediaries. The experiment served as a proof-of-concept demonstration, with researchers letting the biohybrid system collectively choose a direction of movement. An interesting share, read the article in: <https://bit.ly/2YzboXi>



## Can Twitter help further your research?

"Perhaps the most obvious, and most important, aspect of Twitter is that the platform facilitates a closer, more informal connection between scientists." Explore an article on nature - International Journal of Science, about the hidden benefits of using social media as a tool to facilitate a connection between researchers and facilitators, <https://go.nature.com/2Y1ITA9>


$$= E_{q(\tau)}[\log p(\tau)] + E_{q(\theta)}[\log p(\theta)] + E_{q(x|q(\tau))}[\log p(x|q(\tau))]$$

$$H(Y|X) = \sum_{x \in \mathcal{X}, y \in \mathcal{Y}} p(x, y) \log \left( \frac{p(x)}{p(x, y)} \right)$$

$$\begin{pmatrix} \alpha' \\ \gamma \end{pmatrix} \begin{pmatrix} \gamma & -\gamma\beta & 0 & 0 \end{pmatrix} \begin{pmatrix} \alpha' \\ \gamma \end{pmatrix}$$

## Latex Translation Tool

A new math tool called Snip is being heralded as a "life changer" for scientific writing. Instead of spending hours typing mathematical equations in the documentation typesetting system LaTeX, it can now be done in seconds. Snip is a free tool developed by San Francisco startup Mathpix, available for Mac, Windows and Ubuntu system. Try it here: <https://bit.ly/2ISKRj7>



Did you know that if you are affiliated to Universidade de Lisboa you have access to services like Google Suite and unlimited disk space? Click here to activate your account by entering your National ID.

Thank you Prof. Rodrigo Ventura for the share.



*Copyright © 2019 ISR|Lisboa, All rights reserved.*

Instituto Superior Técnico,

Torre Norte – 7º Piso

Av. Rovisco Pais, 1

1049-001 Lisboa, Portugal