

## TODAY



High: 24°C/ 75°F

Low: 19°C/ 66°F

## TOMORROW



High: 25°C/ 77°F

Low: 18°C/ 64°F

## Best places map online

Please check the attendant map at [www.discovermachine.com/maps/118](http://www.discovermachine.com/maps/118) for conference locations and a list of the best places to eat, visit, and more.

## Sightseeing

If you can survive with a sandwich for lunch, you can use lunch break to go see the Sagrada Família temple from the outside: just follow the lively, car-free Avinguda Gaudí from Hospital de Sant Pau.

## Demo Presentations

Remember that, starting at 10:20 and until lunch break there will be a demo presentation in the Menjador room in the ground floor.

## Palau tour

Don't forget to register for tonight's visit at Palau de la Música. Deadline: before lunch (12.30pm).

## Drinks

If you want to go for a drink after the conference banquet, the Passeig del Born is at walking distance and is a great spot for bar hopping. Standing in the middle you see tens of bars, all of which are fairly good and very crowded. It is a great place to hang out during the whole day but it really becomes alive from 10pm to 3am.



## Visit to Palau de la Música and Banquet

Tonight, starting at 17:30 we will have guided visits through the Palau de la Música Catalana. This spectacular building in the Catalan modernist style is a concert hall built between 1905 and 1908 for the choral society Orfeò Català and was declared a UNESCO World Heritage Site in 1997. Don't miss to sign up for the three slots of guided

visits in the reception desk by this morning, if you still have not done so. The closest metro station to reach the Palau is Urquinaona in L4 (yellow) and L1 (red). After the guided visits, the invited talk by Prof. J. Schmidhuber will be held at 19:00 in the Petit Palau, a modern annex inside the Palau. From there we will move to the banquet, to be held in the entrance hall and terrace of the Palau. Remember to bring your entrance ticket to this event!

## Knowledge: Mining for it vs Creating it

*Today's double keynote will cover two complementary ways for machines to output knowledge*

## Morning: Mining Heterogeneous Information Networks by

## Exploring the Power of Links



Data is often represented as networks (networks of friends, semantic network between words ...), and there has been many studies on how to mine such networks. However, it is generally assumed that either network elements all bear the same relationship to each other, or that the nature of the relationship does not matter. Prof. Jiawei Han will tell us about how to analyze typed networks, where relationships can be diverse (e.g. a teacher is linked differently to a student, to a course or to a university): exploiting the structure of these networks can greatly improve the relevance of the uncovered knowledge.

*Jiawei Han is a Professor in the CS Department at the University of Illinois. He is a major figure of the data mining community, with 400+ conference and journal publications, 100+ participations in international conferences' PCs, and a widely used textbook, "Data Mining: Concepts and Techniques".*

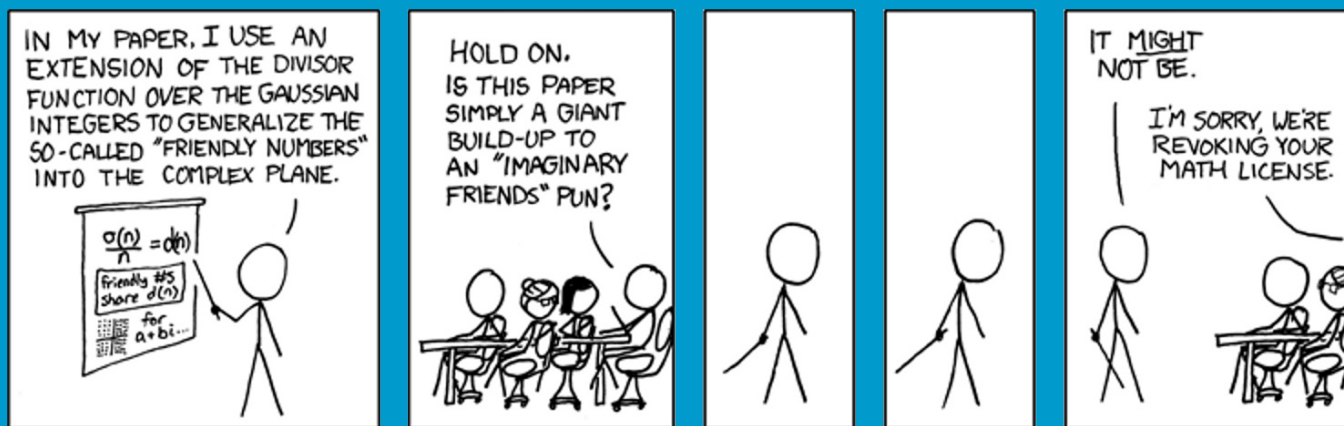
## Evening: Formal Theory of Fun and Creativity

What can we do to build machines that are *talented*, be it in science, art or even humor? Prof. Jürgen Schmidhuber



will present a two-staged agent: a reinforcement learning module, producing the knowledge, and an adaptive predictor, learning from the data produced. If the data is not "interesting" to the predictor, i.e. if it cannot learn from it because it is either too hard, or too boring (already known), then the reinforcement learner receives a good reward.

*Prof. Schmidhuber is Director of the Swiss AI Lab, IDISIA, that Business Week Magazine ranked in the world's top ten AI labs (the smallest!), head of TU Munich's CogBotLab, and Professor at the University of Lugano (Switzerland). He published more than 200 papers in numerous AI topics, many of them focusing about artificial curiosity and creativity.*



## Modernisme

Tonight's conference banquet takes place in El Palau de la Música Catalana, one of the most emblematic examples of Modernisme by the architect Lluís Domènech i Montaner.

Modernisme was a cultural movement centered on the city of Barcelona, led by deeply individualistic and anti-traditionalist intellectuals who, roughly from 1888 to 1911 attempted to update Catalan arts and ideas so as to uplift Catalan culture to a par with other European cultures.

In architecture, Modernisme is characterized by the predominance of the curve over the straight line, by rich decoration and detail, by the frequent use of vegetal and other organic motifs, the taste for asymmetry, a refined aestheticism, and the dynamic shapes.

Antoni Gaudí is the best-known architect of this movement, with the extraordinary buildings of La Pedrera and Casa Batlló, the amazing Park Güell, and the Sagrada Família (minutes away from the conference venue). The second most famous Modernista architect is Lluís Domènech i Muntaner, creator of both the Palau de la Música Catalana and the Hospital de Sant Pau complex.

Back then, intellectuals of Modernisme used to hang out in the café Els Quatre Gats (the 4 cats) in Ciutat Vella. The café is still open today, and featured in Woody Allen's movie: Vicky-Cristina-Barcelona. Make sure you go and check the 19th century bohemian atmosphere.

## Paella

Paella is one of the most famous dishes in Spain, if not the national dish. It consists of rice with meat or seafood, vegetables and spices. Its origin comes from Valencia, and the name paella means pan in Catalan. There are three widely known types of paella: Valencian paella (*paella valenciana*), seafood paella (*paella de marisco*) and mixed paella (*paella mixta*), but there are many others as well. Valencian paella consists of white rice, green vegetables, meat and seasoning. Seafood paella replaces meat with seafood and omits beans and green vegetables. Mixed paella is a free-style combination of meat, seafood, vegetables and sometimes beans.

In Valencia, paella is associated with holidays and celebrations. It is very typical to prepare one at home for Sunday's family lunch. It is also customary to prepare enormous paellas at mass gatherings and popular festivals,



## Sudoku

In this sudoku variation, irregular regions replace the boxes. The grid is toroidal, and wraps around on both edges.



feeding hundreds. Taking it to the extreme, on March 1992 a paella which fed about 100,000 people made it to the Guinness World Records.

In Barcelona, most restaurants offer mixed paella in the daily menu of Thursday's lunch. There are also great restaurants to eat seafood paella in the Barceloneta, check our recommendations in the attendants map. By the way, locals eat paella for lunch, if you have paella for dinner consider yourself a tourist.

