

# 2nd International Conference on Mathematical Neuroscience

May 30 - June 1, 2016  
Antibes - Juan les Pins, France  
Convention centre



The Second International Conference on Mathematical NeuroScience (ICMNS) will be held at the Congress Center in Juan-les-Pins, on the French Riviera.

The goal of this event is to provide an interdisciplinary conference to bring together theoretical neuroscientists and mathematicians interested in using and extending mathematical concepts and methods for solving problems in neuroscience. In turn, we expect the connections and insights gleaned through mathematics can pose future questions to experimental neuroscience.

The conference is motivated by many outstanding questions concerning brain function and dysfunction across multiple spatial and temporal scales. Studying these questions requires a wide range of mathematical tools, including probability and statistics, stochastic calculus, dynamical systems, functional analysis, geometry, information theory, and numerical analysis. The conference also aims to illustrate that neuroscience is spawning new areas of mathematics.

A second motivation for this conference is to infuse coherent mathematical insight into neurosciences by which the proper range of applicability of the results is clearly identified. It is our belief that exciting and important applications of mathematics are lacking currently and would help to identify (new) valid quantitative models in neuroscience.

## Invited keynotes



Wolfram Gerstner  
Ecole Polytechnique  
de Lausanne  
(Switzerland)



John Rinzel  
New York University  
(USA)



Antoine Triller  
Ecole Normale Supérieure  
de Paris  
(France)

## Call for contributions

We encourage abstract submission by researchers from all areas of mathematical neuroscience.

Abstracts will be reviewed by a Program Committee, and divided into three categories: featured talks, session talks, and posters.

Accepted oral contributions will be considered for possible publication in a special issue of the Journal of Mathematical Neuroscience.

### Important dates:

**Submission deadline:** January 7, 2016  
*Extended to January 15, 2016*

<http://ICMNS2016.inria.fr>

An event organized by:



## Program Committee

Daniele Avitabile (University of Nottingham)  
Jose Carrillo (Imperial College)  
Pascal Chossat (Université Nice Sophia Antipolis)  
Suzanne Ditlevsen (University of Copenhagen)  
Gregory Faye (Université Paul Sabatier)  
Toni Guillamon (Universitat Politècnica de Catalunya)  
Boris Gutkin (Ecole Normale Supérieure)  
Reinhard Höpfner (University of Mainz)  
Martin Krupa (Inria Sophia Antipolis)  
Rachel Kuske (University of British Columbia)  
Carlo Laing (Massey University)  
Andre Longtin (University of Ottawa)  
Roland Potthast (University of Reading)  
Jonathan Rubin (University of Pittsburgh)  
Laura Sacerdote (University of Torino)  
Eric Shea-Brown (University of Washington)  
Wilhelm Stannat (TU Berlin)  
Jonathan Touboul (Collège de France)  
Gilles Wainrib (Ecole Normale Supérieure)  
Martin Wechselberger (University of Sydney)

## Conference Chairs

Evelyn Buckwar (Johannes Kepler Universität Linz)  
Zachary Kilpatrick (University of Houston)  
Romain Veltz (Inria Sophia Antipolis)

## Advisory Board

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