

EMS Meeting of Presidents 2018

April, 14-15
Maynooth, Ireland



S \vec{e} MA

Spanish Society
of Applied
Mathematics

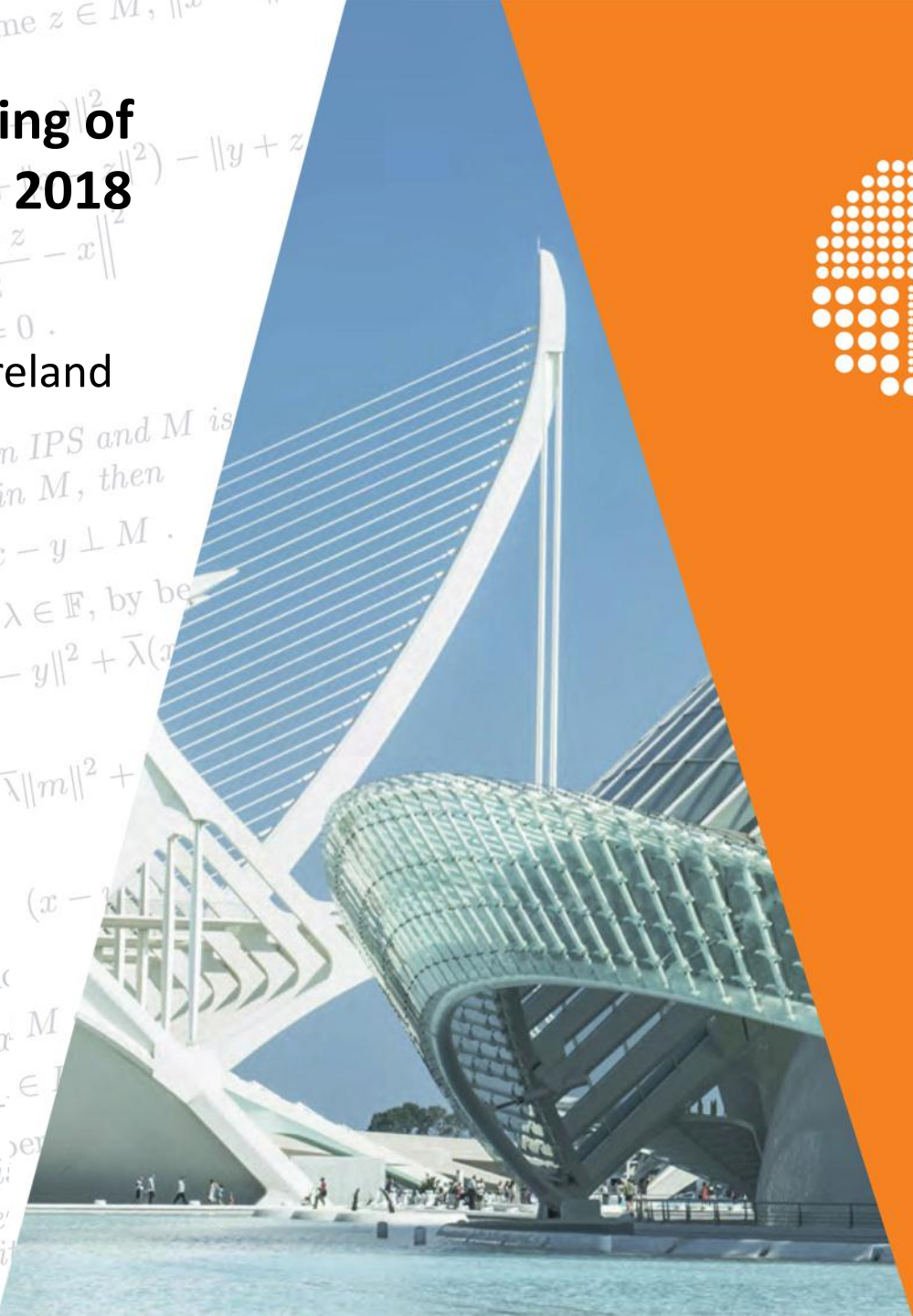
ICIAM



ICIAM
2019
VALENCIA

International
Congress on
Industrial and
Applied
Mathematics

July 15-19
Valencia · Spain



1. ICIAM 2019 Valencia

2. Scientific Program

- Highlighted speakers
- Minisymposia
- Contributed Papers
- Posters
- Embedded and Satellite Meetings
- Public outreach activities

3. Conference venue

1. ICIAM 2019 Valencia

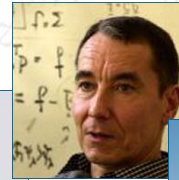
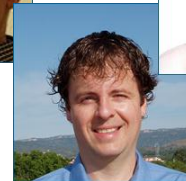
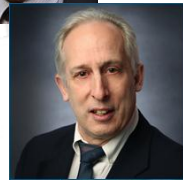
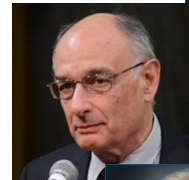
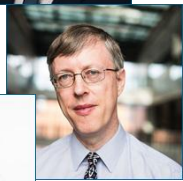
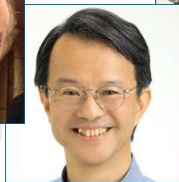
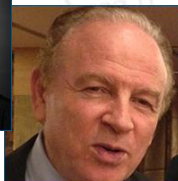
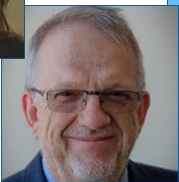


- ✓ Showcase for the most recent advances in **industrial** and **applied mathematics** **interdisciplinary** topics relating mathematics
- ✓ Demonstrate the **applicability of Mathematics** to science, engineering and industry
- ✓ Great opportunity for **young researchers** and **graduate students** to discover the vast potential of applied mathematics
- ✓ Expected: more than **3 000 delegates**

2. Scientific Program

Highlighted speakers

- ✓ Invited speakers: 27
- ✓ ICIAM Prizes
- ✓ Olga Taussky-Todd Lecture
- ✓ Outreach & Public Speakers



2. Scientific Program



- **List of invited speakers**

Marsha J. Berger (USA)

Alfredo Bermúdez de Castro (Spain)

Peter Bühlmann (Switzerland)

Carlos Conca (Chile)

Wolfgang Dahmen (USA)

Hans De Sterck (Australia)

Leah Edelstein-Keshet (Canada)

Isabelle Gallagher (France)

Omar Ghattas (USA)

Donald Goldfarb (USA)

Thomas A. Grandine (USA)

Nicholas J. Higham (UK)

Yunqing Huang (China)

Kristin Lauter (USA)

Claude Le Bris (France)

Ruo Li (China)

Sylvia Serfaty (USA)

James Sethian (USA)

Panagiotis E. Souganidis (USA)

Hiroshi Suito (Japan)

Eitan Tadmor (USA)

Anna-Karin Tornberg (Sweden)

Marcelo Viana (Brazil)

Xiao-Ping Wang (China)

J.A.C. Weideman (South Africa)

Karen Willcox (USA)

Laura Winter (Singapore)

2. Scientific Program



- **Minisymposia topics (deadline November 5, 2018)**

- ✓ Applied Mathematics for Industry and Engineering
- ✓ Astronomy, Astrophysics and Geophysics
- ✓ Biology, Medicine and other natural sciences
- ✓ Chemistry, Chemical Engineering
- ✓ Computational Geometry
- ✓ Computer Science
- ✓ Control and Systems Theory
- ✓ Discrete Mathematics
- ✓ Dynamical Systems and Nonlinear Analysis
- ✓ Education
- ✓ Finance and Management Science
- ✓ Fluids Physics and Statistical Mechanics
- ✓ Information, Communication, Signals
- ✓ Linear Algebra and Geometry
- ✓ Materials Science and Solid Mechanics
- ✓ Mathematics and Computer Science
- ✓ Numerical Analysis
- ✓ Optimization and Operations Research
- ✓ Ordinary Differential Equations
- ✓ Partial Differential Equations
- ✓ Probability and Statistics
- ✓ Real and Complex Analysis
- ✓ Simulation and Modelling
- ✓ Social Science
- ✓ Other Mathematical Topics and their Applications

- **Contributed Papers (submissions open July 1, 2018)**

- **Posters (submissions open July 1, 2018)**

2. Scientific Program: sub-venues

Galicia

Bilbao

Zaragoza

Valencia



Sevilla

Málaga

2. Scientific Program: Satellite Meetings organized by sub-venues

BILBAO

- **Workshop on Quantitative Biomedicine for Health and Disease**,
date to be determined in **2019**.
- **Applied Mathematics for Big Data**,
date to be determined in **2019**.



GALICIA

- **ICCF 2019 A Coruña (International Conference on Computational Finance)**,
A Coruña, July 8-12 2019.
- **Conference on Transfer and Industrial Mathematics**,
Santiago de Compostela, date to be determined.



2. Scientific Program: Satellite Meetings organized by sub-venues

MÁLAGA

- ❑ **TsuMaMos 2018, Mathematical Modelling for Tsunami Early Warning Systems,**
date to be determined in **2018**.
- ❑ **NumHyp 2019, Numerical Approximation of Hyperbolic Systems with source terms and applications,**
date to be determined in **2019**.



2. Scientific Program: Satellite Meetings organized by sub-venues

SEVILLA

- **Thematic semester on complex flows at IMUS,**
(invited visitors, workshop + summer school, **first semester, 2019**)
- **ECMI 2019 / VI Iberian Modelling Week,**
July 7-12, 2019.



ZARAGOZA

- **Fifteenth International Conference Zaragoza-Pau**
on Mathematics and its Applications,
September 10-12, 2018.
- **“Study Group” with companies,**
date to be determined in **2019.**



2. Scientific Program: other Satellite Meetings



Accepted

- ✓ **EHF2018 - XVIII Jacques Louis Lions Spanish-French School on Numerical Simulation in Physics and Engineering, June 25-29, 2018**, Las Palmas de Gran Canaria, Spain.
- ✓ **AGACSE 2018 - 7th Conference on Applied Geometric Algebras in Computer Science and Engineering, July 23-27, 2018**, Campinas, Brazil.
- ✓ **Second Spain-Brazil Joint Meeting of Mathematical Societies, December 11-14, 2018**, Cádiz, Spain.
- ✓ **CIMPA Research School "Data Science for Engineering and Technology", June 25-July 5, 2019**, Tunis, Tunisia.
- ✓ **SIAM Conference on Applied Algebraic Geometry 2019 , July 9-13, 2019**, Bern, Switzerland.
- ✓ **SciCADE 2019 – International Conference on Scientific Computation and Differential Equations, July 22-26, 2019**, Innsbruck, Austria.

Tentative

- **CIMPA Research School "Modélisation, Analyse mathématique et calcul scientifique dans la gestion des déchets ménagers", July 4-14, 2019**, Kenitra, Morocco.
- **ICCOPT 2019 (International Conference on Continuous Optimization), August 4-8, 2019**, Berlin, Germany.

2. Scientific Program: Embedded Meetings

Embedded Meetings:



SeMA

Spanish Society
of Applied
Mathematics

CEDYA/CMA Congress of Differential Equations and Applications/Congress of Applied Mathematics



SIAM

Society for Industrial and Applied Mathematics

2019 SIAM Annual Meeting (AN19)

✓ **Some other Embedded Meetings (coming soon)**

Deadline for proposals for Satellite and Embedding Meetings: October 1st, 2018

3. Conference Venue: Valencia



For keeping you updated:

- ✓ www.ICIAM2019.com
- ✓ Sign-up for e-alerts

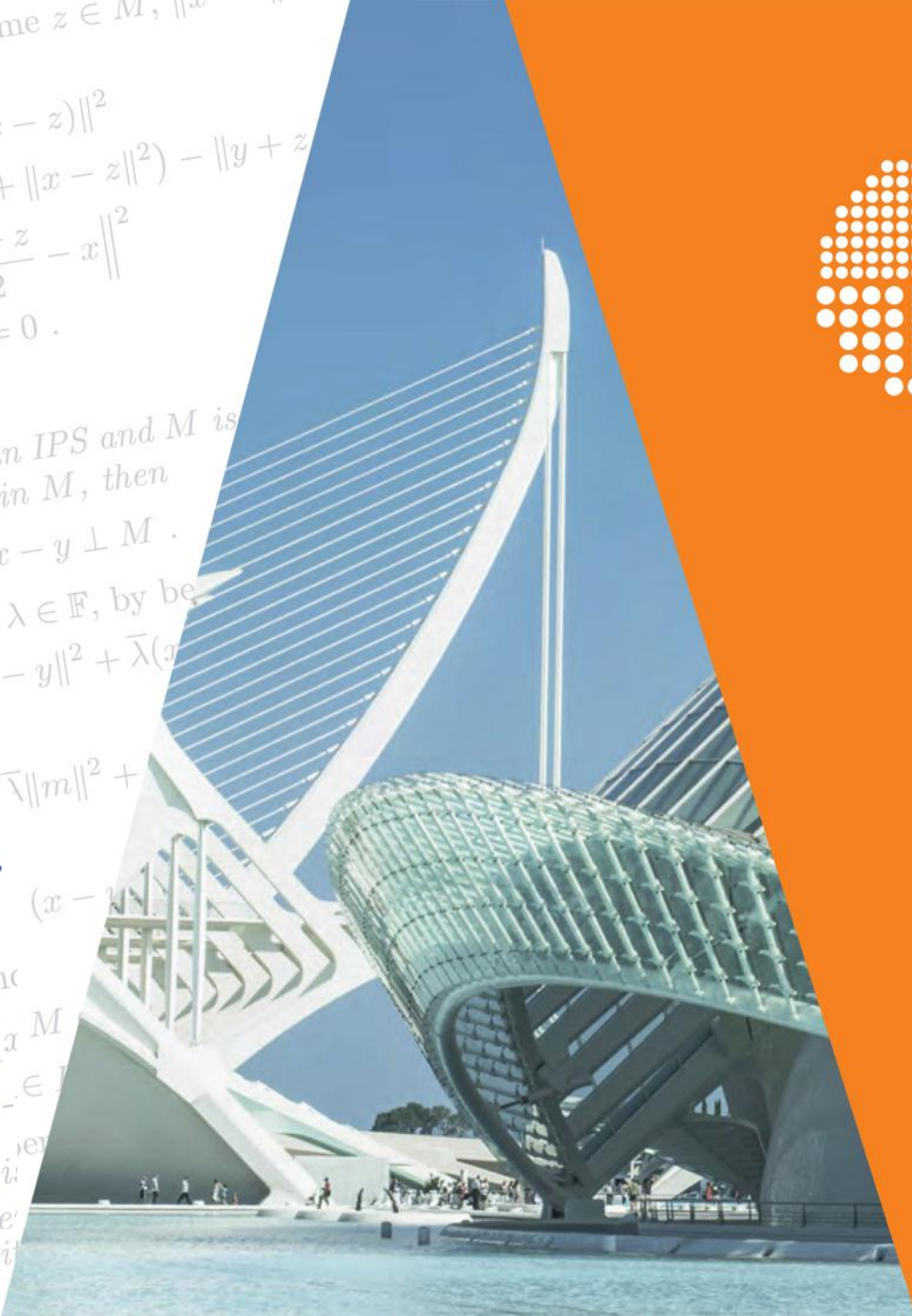


- ✓ Follow us at @ICIAM2019

$\| \cdot \|$ is continuous
 suppose that for some $z \in M$,
 $\|y - x\|^2 = \|(y - x) + (x - z)\|^2$
 $= 2(\|y - x\|^2 + \|x - z\|^2) - \|y + z\|^2$
 $= 4\delta^2 - 4\left\|\frac{y+z}{2} - x\right\|^2$
 $\leq 4\delta^2 - 4\delta^2 = 0.$

Suppose $(H, (\cdot, \cdot))$ is an IPS and M is
 a subspace. If $x \in H$ and $y \in M$ is the
 orthogonal approximation to x in M , then
 $x - y \perp M.$
 $\|x - y + \lambda m\|^2 = \|x - y\|^2 + \lambda^2 \|m\|^2$
 For any $\lambda \in \mathbb{F}$, by the triangle inequality
 $\|x - y + \lambda m\| \geq \|x - y\| - \lambda \|m\|$
 Squaring both sides, we have
 $\|x - y + \lambda m\|^2 \geq (\|x - y\| - \lambda \|m\|)^2$

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