

## Publications

We are proud to announce that the Proceedings of ICNAAM 2018 will be published in the very famous **AIP (American Institute of Physics) Conference Proceedings**.

The journals in which selected Proceedings of ICNAAM 2018 will be published are:

1. Journal of Numerical Analysis, Industrial and Applied Mathematics (JNAIAM) <http://www.jnaiam.org>
2. Mathematical Methods in the Applied Sciences (Wiley & Sons)
3. Journal of Statistical Theory and Practice
4. Applied Mathematics & Information Sciences (AMIS)

For Publication you must contact via email Professor Dr. Theodore E. Simos at:  
[chairman@icnaam.org](mailto:chairman@icnaam.org)

The conference organizers invite colleagues to submit proposals for Sessions, or Workshops and Minisymposia. Each session should have at least 6 presentations and each Workshop or Minisymposium at least 12 presentations.

**The Session, Workshop or Minisymposium organizers will be responsible for advertising their session, reviewing and selecting the papers.**

**Session organizers will have one presentation free.**

**The Workshop or Minisymposium organizers will have free registration, accommodation and two presentations. Papers accepted for Sessions, Workshops or Minisymposia will be published in the Proceedings of ICNAAM 2018.**

After the Conference papers presented at the Sessions, Workshops or Minisymposia will be considered for publication in the journals mentioned above.

## Sheraton Hotel, Rhodes

### ICNAAM 2018

#### INVITED SPEAKERS

**Tony Chan ,**

President, Hong Kong University of Science and Technology,  
Hong Kong, China

**Thomas Huckle ,**

Institut für Informatik, Technical University of Munich,  
Munich, Germany

**Xiaoqing Jin ,**

Mathematics Department, Macau University, Macau, China

**Lek Heng Lim ,**

Statistics Department, University of Chicago, Chicago, USA

**Benedetta Morini ,**

Dipartimento di Ingegneria Industriale, University of  
Florence, Florence, Italy

**James Nagy ,**

Department of Mathematics, Emory University, Atlanta, USA

**Irene Sabadini ,**

Politecnico di Milano, Dipartimento di Matematica  
"F. Brioschi", Milano, Italy

**Stefano Serra Capizzano ,**

Department of Science and High Technology, Insubria  
University - Como, Italy  
Department of Information Technology, Uppsala University -  
Uppsala, Sweden

**Eugene Tyrtyshnikov ,**

Institute of Numerical Mathematics of Russian Academy of  
Sciences, Moscow, Russia

**Jianlin Xia ,**

Mathematics Department, Purdue University, Indianapolis,  
USA



## 16<sup>th</sup> INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2018

**(ICNAAM 2018)**

**13-18 September 2018,  
Rhodes, Greece**



[www.icnaam.org](http://www.icnaam.org)  
[www.icnaam.com](http://www.icnaam.com)  
[www.icnaam.net](http://www.icnaam.net)

## DATES OF IMPORTANCE

Proceedings paper (3-4 pages) submission deadline	16 July 2018
Notification of acceptance / referees' amendments	22 July 2018
Submission of the source files of the camera ready short papers to AIP Conference Proceedings	1 August 2018
Conference	13-18 September 2018
Submission of the full papers for publication in conference syndicated journals	20 September 2018 - 31 January 2019

### Contact Details

Mrs Eleni Ralli-Simou, Secretary of ICNAAM  
Postal Address  
10 Konitsis Street , Amfitheia, Paleon Faliron  
GR-175 64 Athens, Greece

Fax : 0035 726 555 296  
E-mail : [secretary@icnaam.org](mailto:secretary@icnaam.org)

## AIMS AND SCOPE

The aim of the International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2018) is to bring together leading scientists of the international Numerical & Applied Mathematics community and to attract original research papers of very high quality. The topics to be covered include (but are not limited to): All the research areas of Numerical Analysis and Computational Mathematics and all the research areas of Applied Mathematics

## TOPICS

### **All the research areas of Numerical Analysis and Computational Mathematics:**

(Numerical ODEs, Numerical PDEs (inc. BVPs), Scientific Computing and Algorithms, Stochastic Differential Equations, Approximation, Numerical Linear Algebra, Numerical Integral Equations, Error Analysis and Interval Analysis, Difference Equations and Recurrence Relations, Numerical problems in Dynamical Systems, Applications to the Sciences (Computational Physics, Computational Statistics, Computational Chemistry, Computational Engineering etc.), Differential Algebraic Equations, Numerical methods in Fourier analysis etc)

### **All the research areas of Applied and Industrial Mathematics:**

(Mathematical Physics, Mathematical Chemistry, Mathematical Biology and Mathematical Medicine, Optimization and Operational Research, Theoretical Mechanics, Discrete Applied Mathematics, Statistics, Probability, Dynamical Systems, Algorithms, Experimental Mathematics, Theoretical Computer Science, Applied Analysis, Mathematical Modeling (including but not limited to mathematical modeling of engineering and environmental processes, manufacturing, and industrial systems, heat transfer, fluid mechanics, CFD, and transport phenomena; solid mechanics and mechanics of metals; electromagnets and MHD; reliability modeling and system optimization; decision sciences in an industrial and manufacturing context; civil engineering systems and structures; mineral and energy resources; relevant software engineering issues associated with CAD and CAE; and materials and metallurgical engineering, mathematical modeling of social, behavioral and other sciences), Decomposition and Reconstruction Algorithms, Subdivision Algorithms, Continuous and Discrete Wavelet Transform, Time-frequency Localization, Phase-Space Analysis, Subband Coding, Image Compression, Real-Time Filtering, Radar and Sonar Applications, Transient Analysis, Medical Imaging, Multigrid Methods, Frames, Bifurcation and Singularity Theory, Deterministic Chaos and Fractals, Soliton and Coherent Phenomena, Formation of Pattern, Evolution, Complexity Theory and Neural Networks, Analytical Approaches and Simulations for more Accurate Descriptions, Predictions, Experimental Observations and Applications of Nonlinear Phenomena in Science and Engineering, Theoretical and Applied aspects of Computational Geometry, Control Theory and Automation, Fuzzy Sets and Systems and Fuzzy Logic, Applied Algebra, Quality Theory of Differential Equations, Neural Networks , etc.)

## SCIENTIFIC COMMITTEE

### Chairman

#### **Prof. T. E. Simos**

Academician, President of the European Society of Computational Methods in Sciences, Engineering and Technology (ESCMSET),

### Vice Chairmen

#### **Prof. Ch. Tsitouras,**

Department of Applied Sciences,  
Technological Educational Institute of  
Chalkis, Greece

### Scientific Committee

Prof. Peter Bjørstad, Norway  
Prof. Luigi Brugnano, Italy  
Prof. J. R. Cash, UK  
Prof. R. Cools, Belgium  
Dr. M. Fernanda P. Costa, Portugal  
Prof. A. Cuyt, Belgium  
Prof. R. W. Freund, USA  
Prof. I. Gladwell, USA  
Prof. Klaus Gürlebeck, Germany  
Prof. Axel Klar, Germany  
Dr. W.F. Mitchell, USA  
Dr. Ana Isabel Pereira, Portugal  
Prof. T.E. Simos, Greece  
Prof. W. Sproessig, Germany  
Prof. Ch. Tsitouras, Greece  
Prof. G. Alistair Watson, UK  
Dr. Dia Zeidan, Jordan