

# **2015 Publisher's Report**

Nathalie Jacobs, Senior Publishing Editor

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# About this journal

- First Open Access Journal on Computational Mechanics
- · Meeting point of the large community of simulation-based engineering sciences
- · Brings together elements from applied mathematics and computational methods in engineering
- · Emphasis on modeling in theoretical and applied mechanics challenges
- Appeals to academics and practitioners
- Rejection rate 82.6%

This is a SpringerOpen journal published under the brand SpringerOpen.

The research topics addressed by *Advanced Modeling and Simulation in Engineering Sciences* (AMSES) cover the vast domain of the advanced modeling and simulation of materials, processes and structures governed by the laws of mechanics. The emphasis is on advanced and innovative modeling approaches and numerical strategies. The main objective is to describe the actual physics of large mechanical systems with complicated geometries as accurately as possible using complex, highly nonlinear and coupled multiphysics and multiscale models, and then to carry out simulations with these complex models as rapidly as possible. In other words, this research revolves around efficient numerical modeling along with model verification and validation. Therefore, the corresponding papers deal with advanced modeling and simulation, efficient optimization, inverse analysis and simulation-based control. These challenging issues require multidisciplinary efforts – particularly in modeling, numerical analysis and computer science – which will be treated in this journal.

## **Editorial Board**

**Editor in Chief:** 

P. Ladeveze, ENS Cachan, France, pierre.ladeveze@lmt.ens-cachan.fr

#### **Associate Editors:**

Francisco Chinesta, Ecole Centrale Nantes, France, Francisco.Chinesta@ecnantes.fr Alberto Corrigliano, Politecnico de Milano, Italy, alberto.corigliano@polimi.it Antonio Huerta, UPC, Spain, antonio.huerta@upc.edu Jay Gopalakrishnan, Portland State University, USA, jay.gopalakrishnan@pdx.edu Jean-François Molinari, EPFL, Switzerland, jean-francois.molinari@epfl.ch Stefanie Reese, Aachen University, Germany, stefanie.reese@rwth-aachen.de Jianxiang Wang, Peking University, China, jxwang@pku.edu.cn **Editorial Board:** O. Allix, ENS Cachan, France, allix@lmt.ens-cachan.fr F. Armero, University of California at Berkeley, USA, armero@ce.berkeley.edu F. Auricchio, University of Pavia, Italy, auricchio@unipv.it T. Burczynski, Cracow University of Technology, Poland, Tadeusz.Burczynski@polsl.pl **R. De Borst**, University of Glasgow, UK, Rene.DeBorst@glasgow.ac.uk C. Cartensen, Humboldt University of Berlin, Germany, cc@math.hu-berlin.de A. Combescure, INSA Lyon, France, alain.combescure@insa-lyon.fr E. Cueto, University of Zaragoza, Spain, ecueto@unizar.es L. Demkowicz, University of Texas at Austin, USA, leszek@ices.utexas.edu

P. Diez, Polytecnical University of Cataluña, Spain, pedro.diez@upc.edu J. Eberhardsteiner, Vienna Institute of Technology, Austria, ej@mail.tuwien.ac.at C. Farhat, Stanford University, USA, <u>cfarhat@stanford.edu</u> J. Fish, Columbia University, USA, fishj@columbia.edu D. Givoli, Technion-Israel Institute of Technology, Israel, givolid@aerodyne.technion.ac.il S. Ghosh, Johns Hopkins University, USA, sghosh20@jhu.edu M. Geers, Technical University Eindhoven, The Netherlands, M.G.D.Geers@tue.nl **Ch. Hirsch**, Numeca International, Belgium, charles.hirsch@numeca.be T. Hughes, University of Texas at Austin, USA, tjr hughes@hotmail.com A. Ibrahimbegovic, ENS Cachan, France adnan.ibrahimbegovic@enscachan.fr S. Idelsohn, Polytecnical University of Cataluña, Spain sergio@cimne.upc.edu P. Letallec, Ecole Polytechnique Palaiseau, France, patrick.letallec@polytechnique.fr G. R. Liu, University of Cincinnati, USA, liugr@UCMAIL.UC.EDU W. K. Liu, Northwestern University, USA, w-liu@northwestern.edu Y. Maday, University Pierre et Marie Curie, France, Maday@ann.jussieu.fr H. Mang, Vienna Institute of Technology, Austria, herbert.mang@tuwien.ac.at H. Matthies, Technical University Braunschweig, Germany, wire@tubraunschweig.de

N. Moes, Ecole Centrale Nantes, France, <u>nicolas.moes@ec-nantes.fr</u>

C. A. Mota Soares, University of Lisbon, Portugal, carlosmotasoares@dem.ist.utl.pt

T. Oden, University of Texas at Austin, USA, oden@ices.utexas.edu

R. Ohayon, CNAM Paris, France, <a href="mailto:roger.ohayon@cnam.fr">roger.ohayon@cnam.fr</a>

J. Oliver, Polytecnical University of Cataluña, Spain, oliver@cimne.upc.edu

E. Oñate, Polytecnical University of Cataluña, Spain, onate@cimne.upc.edu

M. Papadrakakis, University of Athens, Greece, mpapadra@central.ntua.gr

A. Patera, Massachusetts Institute of Technology, USA, patera@MIT.EDU

U. Perego, Polytechnical University of Milan, Italy, <u>umberto.perego@polimi.it</u>

G. Peric Swansea University, UK, D.Peric@swansea.ac.uk

E. Rank, Technical University Munich, Germany, ernst.rank@tum.de

K. Runesson, Chalmers University of Technology, Sweden,

Kenneth.Runesson@chalmers.se

B. Schrefler, University of Padova, Italy, bernhard.schrefler@dicea.unipd.it

B. Sluys, Delft University of Technology, The Netherlands,

L.J.Sluys@tudelft.nl

**P. Steinmann**, University of Erlangen, Germany, <u>steinmann@ltm.uni-</u> <u>erlangen.de</u>

W. Wall, Technical University Munich, Germany, wall@Inm.mw.tum.de

**P. Wriggers**, Leibniz University Hannover, Germany, <u>wriggers@ikm.uni-hannover.de</u>

G. Yagawa, University of Tokyo, Japan, <u>yagawag@gmail.com</u>

- M. Yuan, Beijing University, China, yuanmw@pku.edu.cn
- T. Zhodi, University of California, USA, <u>zohdi@me.berkeley.edu</u>

# **Journal Metrics**

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For further explanation on the journal metrics, - if applicable for your journal - see the respective chapters

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Editorial: 2015

• No. of days from submission to first decision

Production: 2015

• No. of days from acceptance to Online First

Usage:

- No. of downloads 2015
- LinkOut Statistics 2015
- Median UFJ/ Usage Factor for Journals 2014/15

Impact:

- h5 Index 2014
- SJR 2014
- SNIP 2014
- Impact Factor 2014

Marketing:

- No. of article mentions on Social Media platforms 2015
- Journal Author Satisfaction, likelihood to publish with Springer again 2015

During the peer review process, submitted manuscripts go through one or more revision stages leading up to acceptance or rejection.

The table below summarizes the activity for the journal office between January 1<sup>st</sup> and December 31<sup>st</sup> of each year. Only *"Original Submissions"* have been taken into account.

The rejection rate for 2015 is calculated as the number of rejected manuscripts in 2015 compared to the total number of decisions in 2015, which is defined here as the number of rejected manuscripts plus the number of accepted manuscripts.

### 1.1 Editorial Manager – Editorial Status Summary

Submissions	2015
Total Submitted	90
Total Decisioned	71
Accept	24
Reject	47
Acceptance Rate	34%
Rejection Rate	66%
Average Days to First Decision	31
Average Days to Final Disposition Accept	117
Average Days to Final Disposition Reject	15

Reject and Transfer to mainly SpringerPlus:

Manuscripts that are scientifically sound, but rejected for a variety of reasons can be recommended to SpringerPlus as an alternative. This table shows the number of times an author was offered a transfer in 2015. Please note that the number of transfers does not equal to the number of submissions to SpringerPlus: authors are asked to confirm a transfer before we proceed.

**Disclaimer:** Please note that the term "Reject" is used for the calculation of the acceptance and rejection rates, which includes all terms that may exist for rejection decisions. For example: Reject before review; Reject after review; Reject, but resubmit; Reject, out of scope; and so forth. In addition: Only the papers for which the 'Final Disposition Date' has been set are taken into account.

Final disposition date means that a manuscript is fully completed.

# 1.2 Author Country of Origin of Manuscripts Submitted and Accepted

Country	Number of Manuscripts Submitted	Number of Manuscripts Accepted		
	2015	2015		
FRANCE	15	5		
ITALY	3	3		
SPAIN	4	3		
GERMANY	4	2		
BELGIUM	1	1		
CANADA	1	1		
ISRAEL	2	1		
JAPAN	1	1		
NETHERLANDS	1	1		
NORWAY	1	1		
PORTUGAL	1	1		
SWEDEN	1	1		
SWITZERLAND	1	1		
UNITED STATES	5	1		
VENEZUELA	1	1		
ALGERIA	5			
AUSTRIA	1			

\*sorted by "number of manuscripts accepted 2014" from large to small

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	2015	2015
BANGLADESH	1	
CHINA	3	
EGYPT	1	
FINLAND	1	
INDIA	23	
IRAN, ISLAMIC REPUBLIC OF	2	
IRAQ	1	
MALAYSIA	1	
MOROCCO	2	
NIGERIA	2	
SAUDI ARABIA	1	
UKRAINE	1	
UNITED KINGDOM	1	
VIET NAM	2	
Total	90	24

**Disclaimer:** Please note that the number of manuscripts submitted and the number of manuscripts accepted is a summary of activities between January 1st and December 31st of each year. A manuscript may have been submitted in a certain year, but not accepted in that same year, e.g. is still in process.

# **1.3 Publishing Ethics**

Journal Editors are central to publishing high-quality content. Journal Editors in cooperation with Editorial Board members and reviewers safeguard the quality and integrity of a journal.

In this process it is possible that ethical issues or misconduct could be encountered. Springer strongly recommends journal editors to join the Committee on Publication Ethics (COPE) (<u>http://publicationethics.org/</u>) and thereby adhere to the principles of COPE, committing to investigate allegations of misconduct and to ensure the integrity of research.

Springer is a participant of CrossCheck. CrossCheck is an initiative from CrossRef to help scholarly publishers verify the originality of submitted manuscripts. CrossCheck is two products, a database of scholarly publications (CrossCheck) and a web-based tool (iThenticate) to check an authored work against that database. Springer is offering this screening software to Journal Editors of Springer journals and Society & Publishing Partners journals.

Advanced Modeling and Simulation in Engineering Sciences			
is a member of COPE	1		
is using iThenticate software			

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## **1.4 Ethical Statements**

In order to safeguard the quality of our journal publications, Springer is continuously developing and improving resources on publishing ethics. Springer has introduced and/or updated the following guidelines:

Ethical responsibilities of authors concerning integrity of the research they submit for potential publication. It focuses on accepted principles of ethical and professional conduct.

- Potential conflicts of interest
- · Research involving human participants and/or animals
- Informed consent

Springer has incorporated these guidelines into the Instructions for Authors for each and every Springer journal dependent on the scope and requirements of the respective journal. For Society and Publishing Partners journals, these guidelines are incorporated upon request.



#### Manuscripts Accepted for Publication and Received by Springer



An overview of the number of manuscripts accepted for publication by the Editor-in-Chief and received by Springer is provided.

Manuscripts received by the Springer Journal Workflow system are defined as "manuscripts provided to Springer by the Editor-in-Chief of a journal as accepted for publication."

#### **Published Online**



Articles published via Springer's Online First<sup>®</sup> service are:

- Published electronically as individual articles: These are final articles published online after an author has reviewed proofs and all corrections have been carried out. They are in citable form 2-3 weeks after acceptance and before distribution of the print journal. Metadata is sent to all relevant bibliographic services for inclusion in abstracting and indexing databases immediately after online publication.
- Published on the SpringerLink platform in PDF format: For publication of the printed version, only the final pagination and the citation line are added.
- Fully citable by their DOI (Digital Object Identifier): The official publication date is the online publication date, which is indicated on SpringerLink and in the printed version of the journal.

Publication of papers through Online First helps shorten the time between publication and citation.

### 2.2 Production Turnaround Time

Average Time Between Receipt at Springer and Online Publication (by month 2015)



Published Online [By month]

#### Average Time Between Receipt at Springer and Online Publication (by year 2014 + 2015)

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# Collections

# 2016

### Model order reduction: POD, PGD and reduced bases

Advanced Modeling and Simulation in Engineering Sciences

Edited by: Edited by: Prof. Francisco Chinesta, Prof. Pierre Ladeveze, Prof. Yvon Maday

Collection published: 5 Jan 2016

### 2015

Computational mechanics and medicine

Advanced Modeling and Simulation in Engineering Sciences

Edited by: Prof Bernhard Schrefler, Prof. Elias Cueto

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Collection published: 8 August 2015

### Computational Rheology

Advanced Modeling and Simulation in Engineering Sciences

Edited by: Dr. Roland Keunings, Prof. Francisco Chinesta

Collection published: 16 June 2015

Verification and validation for and with reduced order modeling

Advanced Modeling and Simulation in Engineering Sciences

Edited by: Prof Pedro Diez, Dr Ludovic Chamoin

Collection published: 3 May 2015

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### 4.1 Successful Full-Text Downloads



(Source: Combined Platforms BMC and SpringerLink)

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# 4.2 Top 10 Article Downloads

Title	Author	Volume	lssue	Year	Article Downloads 2015
A Frontal Approach To Hex-Dominant Mesh Generation	TRISTAN CARRIER BAUDOUIN ET AL.	1	1	2014	2,713
A Posteriori Error Analysis Of Stabilised FEM For Degenerate Convex Minimisation Problems Under Weak Regularity Assumptions	WOLFGANG BOIGER ET AL.	1	1	2014	1,625
Weakly Periodic Boundary Conditions For The Homogenization Of Flow In Porous Media	CARL SANDSTÖM ET AL.	1	1	2014	1,135
Performance Evaluation Of Vehicle Front Structure In Crash Energy Management Using Lumped Mass Spring System	SUNDAY M OFOCHEBE ET AL.	2	1	2015	1,127
Reduced Yield Stress For Zirconium Exposed To Iodine: Reactive Force Field Simulation	MATTHEW L ROSSI ET AL.	1	1	2014	1,020
Separation Of Particles In Non-Newtonian Fluids Flowing In T-Shaped Microchannels	GAETANO D'AVINO ET AL.	2	1	2015	965
Efficient And Accurate Numerical Quadrature For Immersed Boundary Methods	LÁSZLÓ KUDELA ET AL.	2	1	2015	940
On A Recursive Formulation For Solving Inverse Form Finding problems in isotropic elastoplasticity	SANDRINE GERMAIN ET AL.	1	1	2014	838
Some Remarks On Surface Conditions Of Solid Body Plunging Into Water With Particle Method	MASAO YOKOYAMA ET AL.	1	1	2014	826
On The Variationally Consistent Computational Homogenization Of Elasticity In The Incompressible Limit	MIKAEL ÖHMAN ET AL.	2	1	2015	800

4 Usage

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## 4.4 Visits by Geography

Visits by Geography 2015



(Source: WebTrekk)

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# 5.1 Coverage in Abstracting & Indexing (A&I) Services

Advanced Modeling and Simulation in Engineering Sciences is currently covered by the following (A&I) services:

Google Scholar, ACM, DBLP, OCLC, Summon by ProQuest

Submitted to SCOPUS in March 2016.

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## 6.1 Marketing Year-in-Review (SO)

- Advanced Modelling and Simulation in Engineering Science is part of the SpringerOpen Engineering journal portfolio.
- In 2015, three dedicated email campaigns were sent promoting International Advanced Modelling and Simulation in Engineering Science to scientists interested in the journal's field. In total, the campaigns were sent to over 32,000 researchers and achieved an open rate of 24.02% and a click to open rate of 14.61% on average
- Additionally Advanced Modelling and Simulation in Engineering Science was included in four cluster campaigns that promoted SpringerOpen Engineering journals to over 54,000 Springer authors which received an open rate of 19.00% and a click to open rate of 10.63% on average
- Advanced Modelling and Simulation in Engineering Science was included in a series of campaigns that targeted authors on the Thomson ISI database that had published in competitor open access journals. The campaign was sent to 3,000 contacts and had an open rate of 16.9% and a click to open rate of 8.8% on average
- In order to increase submissions from Japanese authors, an invitation-to-submit mailing was sent to researchers in Japan, highlighting Advanced Modelling and Simulation in Engineering Science and related SpringerOpen journals. The mailing highlighted the fact that these journals are sponsored in full or in part and that the article-processing charges for these journals consequently are already covered in full or in part.

# Contacts

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### Nathalie Jacobs

Senior Editor

Tel: +31(78)6576196 Nathalie.Jacobs@springer.com

### Joe Arnold

**Open Access Journal Development Editor** 

Tel: +442031922284 Joe.arnold@springer.com

Anneke Pot Senior Editorial Assistant

Tel: +31(78)6576270 Anneke.Pot@springer.com