

Elías Cueto — Curriculum Vitae

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Professor of continuum and computational mechanics, Universidad de Zaragoza. My research interests include the development of numerical methods for computational mechanics in its broadest sense. I have worked on finite element and meshless methods or model order reduction techniques, with applications on forming process simulation, real-time simulation, haptics, computational surgery, and, more recently, on data-intensive computational mechanics, thermodynamics-informed neural networks and Augmented/Mixed Reality.

Education

- **Universidad de Zaragoza** **Zaragoza**
Ph. D. Computational Mechanics 1997–2001
- **Universidad de Oviedo** **Gijón**
BEng and MEng (Hons), six-year degree on Mechanical Engineering 1990–1997

Career

- **Universidad de Zaragoza** **Zaragoza**
Full professor. Mechanical Engineering 01/2010 – now
- **Université Pierre et Marie Curie, Paris VI** **Paris**
Habilitation and qualification 2008
- **Universidad de Zaragoza** **Zaragoza**
Associate professor 05/2003 – 12/2009
- **Universidad de Zaragoza** **Zaragoza**
Assistant professor 10/2000 – 05/2003
- **Universidad de Oviedo** **Oviedo**
Assistant professor 10/1998 – 10/2000
- **Institute of Industrial Technology of Asturias, IUTA** **Oviedo**
Research associate 02/1997–10/1998

Awards and Honors

- **IACM Fellow** **Yokohama, Japan**
International Association of Computational Mechanics 2022
- **EAMBES Fellow** **Portorož, Slovenia**
European Alliance of Medical and Biological Engineering and Science 2020
- **O. C. Zienkiewicz award** **Vienna**
ECCOMAS 2012
- **CETIM Foundation Prize** **Paris**
Fondation de France 2007
- **ESAFORM Scientific Prize** **Glasgow**
European Scientific Association for Material Forming 2006

Professional Activities

Editor.....

International Journal of Material Forming. Associate Editor since 2010.
ESAFORM book series on Material Forming. Springer. Scientific editor. Since 2014.

Editorial Boards.....

International Journal of Forming Processes, Lavoisier, 2004-2008.
European Journal of Computational Mechanics, Lavoisier, since 2006.
International Journal of Material Forming, Springer, since 2008.
Revista Internacional de Métodos Numéricos para Cálculo y Diseño en la Ingeniería, Springer, since 2010.
Advanced Modeling and Simulation in Engineering Sciences, Springer, since 2013.
Archives of Computational Methods in Engineering, since 2017.
Springer-Nature Applied Sciences, since 2018.

Committees.....

President. Spanish Society of Computational Engineering and Mechanics (SEMNI). Since 2016.
Board of Directors. ESAFORM. 2008–2020.
Executive council. Spanish Society of Computational Engineering and Mechanics (SEMNI). Since 2006.
Scientific Committee. ESAFORM. 2006-2008.

Publications

Books.....

F. Chinesta, S. Cescotto, E. Cueto, P. Lorong. La methode des elements naturels en calcul des structures et simulation des procedes. Lavoisier, Paris, 2010.
F. Chinesta, S. Cescotto, E. Cueto, P. Lorong. Method of Natural Element for the simulation of structures and processes. ISTE-Wiley, London, 2011.
F. Chinesta, E. Cueto. PGD-based modeling of materials, structures and processes. ESAFORM-Springer book series. 2014.
E. Cueto, D. Gonzalez, I. Alfaro. Proper Generalized Decompositions. An Introduction to Computer Implementation with Matlab. Springer, 2016.
D. Gonzalez, E. Cueto. Resistencia de Materiales para arquitectos. Prensas Universitarias de Zaragoza, 2018.
E. Cueto, D. González. An introduction to structural mechanics for architects. Springer, 2018.

Edited Books.....

E. Cueto, F. Chinesta, editors. Proceedings of the 10th ESAFORM conference on material forming. American Institute of Physics, College Park, Maryland. Vol. 907. ISBN 978-0-7354-0414-4. 2007.
F. Chinesta, E. Cueto, editors. Advances in material forming. ESAFORM, 10 years on. Springer. Paris, France. ISBN 978-2-287-72142-7. 2007.

Journals.....

More than one hundred publications in leading peer-reviewed journals. Four special volumes of journals edited. See [here] for more details or refer to Researcher ID A-2452-2010.
Download drafts from <http://amb.unizar.es/people/elias-cueto/elias-cueto-publications/>.