

Biosketch

Frederic Magoules is Professor in the Department of Mathematics and Informatics for Complex Systems at CentraleSupélec, Université Paris-Saclay (France).

Frederic Magoules graduated with a B.Sc. in Engineering Sciences in 1993, a M.Sc. in Applied Mathematics in 1994 and a M.Sc. in Numerical Analysis in 1995, from Université Pierre & Marie Curie. He received his Ph.D. in Applied Mathematics from Université Pierre Marie Curie in 2000. He then post-doc'ed and taught there for one year, as Assistant Professor of Numerical Analysis, prior to joining Université Henri Poincaré in 2000 as Assistant and then Associate Professor of Applied Mathematics and Engineering. He received his HDR (Habilitation à Diriger des Recherches) from Université Pierre & Marie Curie in 2005. He joined Ecole Centrale des Arts et Manufactures in 2006 as Professor of Applied Mathematics (in 2015, Ecole Centrale des Arts et Manufactures merged with Supélec and became CentraleSupélec, Université Paris-Saclay).

With backgrounds in Computational Science and Engineering, Applied Mathematics, Computer Science, and consulting experience with industry and national laboratories, Frederic Magoules works at the algorithmic interface between parallel computing and the numerical analysis of partial differential equations and algebraic differential equations. Frederic Magoules and his research group design, analyze, develop, and validate mathematical models and computational methods for the high-performance simulation of multidisciplinary scientific and engineering problems.

Frederic Magoules was awarded the IBM Faculty Award (IBM, USA), the CUDA Research Center Award (Nvidia, USA), the Microsoft Research Academic Award (Microsoft, USA), the CUDA Teaching Center Award (Nvidia, USA), the Champion IBM title (IBM, USA). He is a Fellow of two international societies: the Institute of Mathematics and its Applications (IMA, United Kingdom), the British Computer Society (BCS, United Kingdom). He is also Fellow of the Institute of Intelligent Computing, Communication and Control (China). He has been conferred the title of Adjunct Professor at Ecole Polytechnique (France), Visiting Professor at University of Greenwich (United Kingdom), Honorary Professor of the University of Pécs (Hungary), Visiting Professor at Peoples Friendship University of Russia (Russian Federation), Visiting Professor at Jiangnan University (China), Guest Professor at Wuhan University of Science and Technology (China), Chair Professor at Providence University (Taiwan), Distinguished Chair Professor at Feng Chia University (Taiwan), Visiting Professor at Doshisha University (Japan).

Author or co-author of over 180 refereed publications in Computational Science and Engineering, Applied Mathematics, and Computer Science, Frederic Magoules has authored 11 books, and edited 9 books. Frederic Magoules is Editor of International Journal of Computer Mathematics (Taylor & Francis), Frontiers of Computer Science (Springer), Advances in Engineering Software (Elsevier), Engineering Applications of Computational Fluid Mechanics (Taylor & Francis), Pollack Periodica (Akadémiai Kiadó), Acta Technica Jaurinensis (Szechenyi Istvan University), Structural Mechanics of Engineering Constructions and Buildings (Peoples' Friendship University of Russia), Journal of

Algorithms and Computational Technologies (Sage). He also serves as Guest Editor of 17 Journal Special Issues of international scientific journals.