

Frank A. Coutelieris

Professor in Mathematical Modeling of Environmental Systems



Short CV

Dr Frank Coutelieris is Professor at the Sustainable Agriculture Department (ex. Environmental Engineering), University of Patras, GR. He graduated as Mathematician by Dept. of Mathematics, Univ. of Patras, GR and as Doctor of Philosophy by Chemical Engineering Dept., Univ. of Patras, GR. During last decades, he served as senior researcher at many Greek universities and research centers, along with international collaborations. His scientific record more than 80 publications in peer-reviewed journals, with more than 1300 citations. He is currently reviewer and guest and regional editor for many scientific journals, while he is also supervisor for many post-doc, doctoral and post-graduated theses as well as more than 55 under-graduated theses.

Personal information

Born in 1966, he is full professor of “Mathematical Simulation of Environmental Systems” in Sustainable Engineering Dept., University of Patras, GR. He lives in Agrinion, GR. Married with 3 children. Current address Seferi 2, 30100, Agrinion, GR, tel +302641074196, email: fcoutelieris@upatras.gr, personal site: <http://simulab.env.upatras.gr/>

Education

B. Math 1990, Dept. of Mathematics, University of Patras, GR

PhD, 1995, Dept. of Chemical Engineering, University of Patras, GR

Teaching experience

Prof. Coutelieris has more than 25 years of teaching experience in Greek university, both in undergraduate and postgraduate level. The courses he offers are in all the disciplines of applied mathematics. More specifically these courses include calculus, linear algebra, ordinary differential equations, partial differential equations, programming (using FORTRAN, C and R programming languages), numerical methods, probability & statistics. Furthermore, he occasionally offered engineering courses such as fluid dynamics, transport phenomena and thermal transfer. To support teaching, he is the main author of **five (5)** educational books as well as he has translated **one (1)** more. For further details on these books, pls visit the relative webpage: <http://simulab.env.upatras.gr/teaching/publishing/educational-books>.

Research experience

His research is focused on mathematical modeling, mainly for engineering applications. Precisely, his research interests include modeling of mass transport in porous media, CFD modeling, emulsification/gelation of liquid mixtures, heat and mass transfer in fuel cells, energy and exergy analysis of fuel cell systems, thermodynamics of fuel cells and modelling of processes occur in packaged food. On top of Greek universities (University of Thessaly, University of Western Macedonia, University of Patras), he has also carried out research in NCSR “Demokritos”, GR as well as in Unilever Research Center, NL.

On top of this, Prof. Coutelieris has supervised **fifty-seven (57)** diploma theses and **three (3)** master theses. He is also supervisor of **two (2)** ongoing and **three (3)** finished doctoral theses as well as co-supervisor of **one (1)** ongoing and **two (2)** finished doctoral theses. A detailed list of the finished PhD theses is available at <http://simulab.env.upatras.gr/teaching/publishing/theses>

Publications

Prof Coutelieris has currently published **eighty seven (87)** papers in peer-review scientific journals (72 indexed in Scopus), **three (3)** book chapters and **two (2)** scientific monographies. More than **1300 citations** can be found in the relative international databases. (**H=21**). Detailed list of publications is available here: <http://simulab.env.upatras.gr/people/1>