

Fuzzy Logic-Based Modeling in Collaborative and Blended Learning

By Sofia J. Hadjileontiadou

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Technology has dramatically changed the way in which knowledge is shared within and outside of traditional classroom settings. The application of fuzzy logic to new forms of technology-centered education has presented new opportunities for analyzing and modeling learner behavior.

Fuzzy Logic-Based Modeling in Collaborative and Blended Learning explores the application of the fuzzy set theory to educational settings in order to analyze the learning process, gauge student feedback, and enable quality learning outcomes. Focusing on educational data analysis and modeling in collaborative and blended learning environments, this publication is an essential reference source for educators, researchers, educational administrators and designers, and IT specialists.

This premier reference monograph presents key research on educational data analysis and modeling through the integration of research on advanced modeling techniques, educational technologies, fuzzy concept maps, hybrid modeling, neuro-fuzzy learning management systems, and quality of interaction.

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Fuzzy Logic-Based Modeling in Collaborative and Blended Learning By Sofia J. Hadjileontiadou Bibliography

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Editorial Review

Review
This book provides a valuable contribution to the existing literature of e-learning and related research methodologies. It offers both a breadth and depth of coverage in issues linking fuzzy logic, e-learning, collaborative and blended learning, instructional design and knowledge modelling, along with efficient analytical tools that cannot be easily found elsewhere. This book should be included in any academic and research library since it can serve as a valuable resource and reference book for academics, researchers, educators, post graduate students and practitioners in a full range of e-learning fields. --*Professor Athanassios Jimoyiannis, Department of Social and Educational Policy, University of Peloponnese, Greece*

About the Author
Sofia J. Hadjileontiadou received the Diploma degree in Civil Engineering in 1986 and the Ph.D. degree in Educational Technology in 2000, both from the Aristotle University of Thessaloniki (AUTH), Thessaloniki, Greece. She also holds a Msc in Environmental Engineering. Currently, she is principal of SEK an educational structure within VET, tutor at the Master's in Education (M.Ed) program of the Hellenic Open University and research associate at the 1-Year Programme of Pedagogical Training (EPPAIK) at the School of Pedagogical and Technological Education of Greece. She received the best full paper award at the ICALT'2004 conference of IEEE. Her research interests include educational technology, ICT mediated collaboration, blended learning, innovation in didactics, environmental education and fuzzy logic applications upon educational data. She has published 20 papers in peer reviewed international journals, 40 papers in peer reviewed international conference proceedings and 7 book chapters. She is a member of the Technical Chamber of Greece, the Greek Society of the Teachers of Environmental Education and the Greek Scientific Society of ICT in Education.

Sofia B. Dias currently works as a Researcher Assistant at the Faculty of Human Kinetics, University of Lisbon, Portugal. She embraced a Ph.D. in Science Education, specialty of Analysis and Organization of Educational Systems, financed by a project grant awarded by the Foundation for Science and Technology (FCT-Portugal). In 2007 she received an award of the Best Students University of Lisbon (UTL/Santander). She has published 2 books, 1 book chapter, 5 papers in peer reviewed international journals and 7 papers in peer reviewed international conference proceedings. Since 2011 she is peer reviewer of several international journals, namely: Computers & Education, The Internet & Higher Education, Interactive Learning Environments, Educational Research & Reviews, Academic Proceedings in Engineering Sciences, Systems, and Journal of Medical Internet Research. Just recently, she has won a 5-year FCT Postdoctoral grant for exploring blended, collaborative and affective learning in Higher Education. Her research interests and current projects focus on blended learning, ICT in education, learning management systems and intelligent modelling of learning processes.

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