

Computer Science Chair Candidate Seminar Some Interesting Applications of Mathematics to Computer Science Dr. George Markowsky, University of Maine

This talk will provide an overview of three areas of research in computer science that draw heavily on mathematics: the creation of 3-dimensional models from 2-dimensional data, universal hashing and the practical applications of randomness, and providing a basis for lattice theory. The talk will address the origins of the problems, some of the difficulties faced in solving the problems, and describe applications of the results presented in the talk.

Bio: George Markowsky is a Professor of Computer Science at the University of Maine where he is the Director of the University of Maine Cybersecurity Lab. He is also a Cooperating Professor in the Department of Mathematics and Statistics and a Cooperating Professor in the School of Policy and International Affairs. Dr. Markowsky received his B.A. in Mathematics from Columbia University and his M.A. and Ph.D. in Mathematics from Harvard University. He spent ten years at the IBM Thomas J. Watson Research Center where he served as Research Staff Member, Technical Assistant to the Director of the Computer Science Department, and Manager of Special Projects.

He was the Founding Chair of the University of Maine Computer Science Department and has served as Chair of the Department multiple times. He also served as Chair of the Mathematics and Statistics Department and as Associate Director of the School of Computing and Information Science at the University of Maine. He has served as Dean of the American-Ukrainian Faculty at Ternopil National Economic University in Ukraine, as a Visiting Professor at Rensselaer Polytechnic Institute's Lally School of Management and Technology, and as a Visiting Scholar at the Rochester Institute of Technology in the Department of Computing Security.

George Markowsky was the founding President of the Maine Software Developers Association (MeSDA) and grew it until its membership exceeded 100 companies. MeSDA eventually became the premier technology association in Maine. George Markowsky founded a software company, Trefoil Corporation, that developed the O*NET software for the U. S. Department of Labor that replaced the Dictionary of Occupational Titles. The O*NET software was released nationally in 2000. In addition, Trefoil has worked on a variety of software products and also completed Phase I and Phase II SBIRs for the National Institutes of Health.

He currently sits on the Advisory Board of the International Emergency Management Society and heading up their educational efforts. He is organizing a conference on Emergency Management, Homeland Security, and Cybersecurity for June of this year.

Date: March 21, 2017
Time: 9:30 am Refreshments
9:45 am Talk
203 Computer Science Building

