Abstract:
In this talk I will present a perspective on the present day context of computing and computer science education. While the number of computers in the world keeps increasing the interest among students to study computer science (at least in the United States) has been declining. Within this context, I will present a new perspective on the design of computer science curricula for undergraduate institutions. We have been developing, implementing, and refining several courses for the past ten years. Most notably among these are new approaches to the teaching of introductory computing courses (that use various contexts: personal robots, computational art, etc.), upper-level electives, and new programs of study. In this talk, I will give an overview of these, present several examples, and offer results from our studies at Bryn Mawr College and at other institutions.

Bio:
Dr. Deepak Kumar is professor and chair at the Department of Computer Science at Bryn Mawr College, Bryn Mawr, PA. He received his Ph.D. in Computer Science from State University of New York at Buffalo, 1993 (advisor: Prof. Stuart C. Shapiro). His research interests include Artificial Intelligence, BDI Architectures, Robotics, Cognitive Science, Computational Linguistics, AI Education, Evolutionary Computation, Programming Paradigms, and Computer uses in Education. Dr. Kumar is a member of the ACM Education Council, member of the IFIP WG3.2 Technical Committee on Undergraduate CS Education and a member of the Computer Science AP Advisory Board.