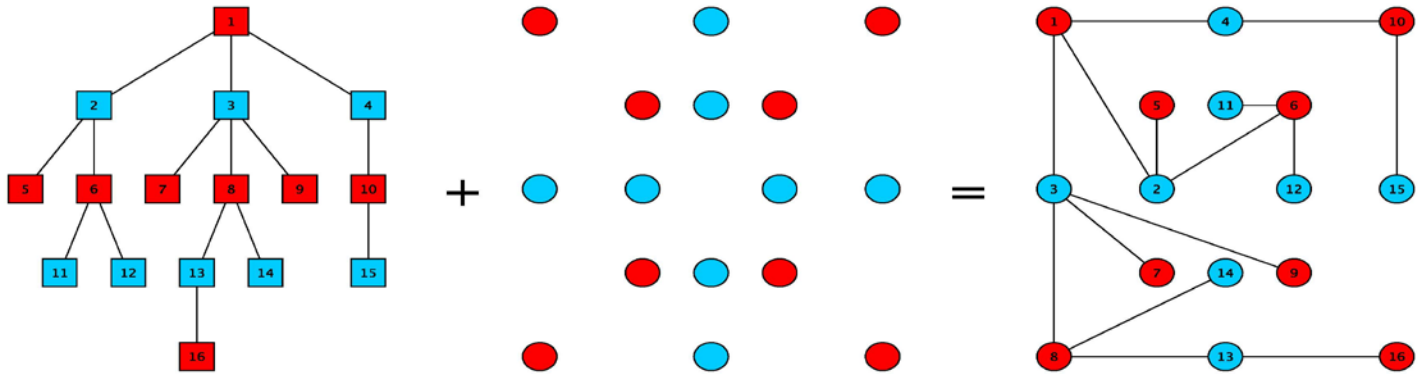


SEMINAR: DEPARTMENT OF COMPUTER SCIENCE
TITLE: COLORFUL POINT-SET EMBEDDINGS OF TREES
PROFESSOR BILL LENHART, WILLIAMS COLLEGE, MA USA



Abstract:

How can we compute a drawing of a network? This simple question has given rise to a surprisingly large, diverse, and fruitful body of research. This talk will focus on questions involving the computation of embeddings (drawings) of trees in which the vertices of the tree must be mapped to a specified set of points in the plane. In addition, the vertices of the graph are colored as are the specified points, and we require that the mapping be color-preserving. Note that such an embedding might not always be possible if we require that the edges of the drawing are not allowed to cross one another!

Bio:

Bill Lenhart received his Ph.D. in mathematics from Dartmouth College in the early 1980s. He is the A. Barton Hepburn Professor of Computer Science at Williams College in Massachusetts, where he has taught computer science and mathematics for over 30 years. His research interests focus on graph theory and graph algorithms—especially geometric representations of graphs, but has also published on problems in computational geometry and motion planning. In addition, Bill has served as Provost and Treasurer of Williams College and as Acting Dean of the Faculty.



DATE Wednesday, March 22, 2017
BUILDING Oland Hall G31, UNB Saint John
TIME 2:30 pm

