1022-91-3   **Donald G. Saari***, University of California Irvine, Institute Mathematical Beh Science, SSPA 2119, Irvine, CA 92697-5100. *Mathematics of voting.*

While voting seems to be simple, we might suspect from election outcomes that all sorts of subtle things can go wrong. The situation is much worse than you thought. Even more, these difficulties even extend into statistics, etc. The only way to unravel the problems and find resolutions is with mathematics: the developing kind of required mathematics is described during this talk. (Received June 02, 2005)