**Abstract**

paper proposes a distributed localization algorithm in wireless sensing element networks. The formula considers the position uncertainty of reference nodes, that are unnoticed within the past analysis, within which imperfect position info of reference nodes intensifies the error accumulation development. The formula calculates position uncertainty by the dilution of preciseness and presents a balance purpose between varies errors and position errors by applying the changed spring mass methodology. It has a tendency to verify the practicableness of the planned formula by dynamical multiple parameters below numerous circumstances. The result proves that the general performance of localization is increased by considering the position uncertainty.