Supplementary Material to "Efficient Sensor Placement for Leak Localization Considering Uncertainties"

David B. Steffelbauer · Daniela Fuchs-Hanusch

Received: date / Accepted: date

Institute of Urban Water Management and Landscape Water Engineering - Graz University of Technology Stremayrgasse 10/I, 8010 Graz, Austria Tel.: +43-316-8738881 Fax: +43-316-873108881 E-mail: david.steffelbauer@tugraz.at

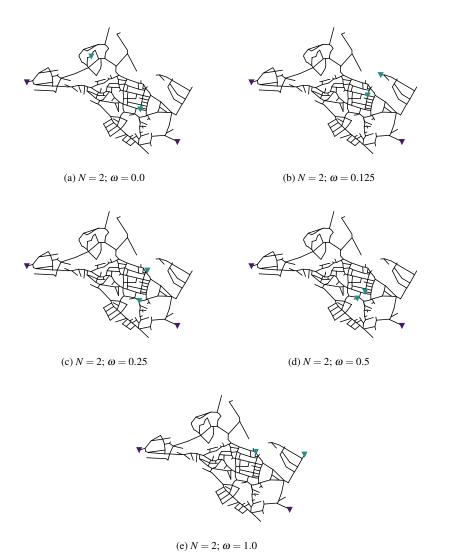


Fig. 1: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for two additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are

depicted as purple triangles.

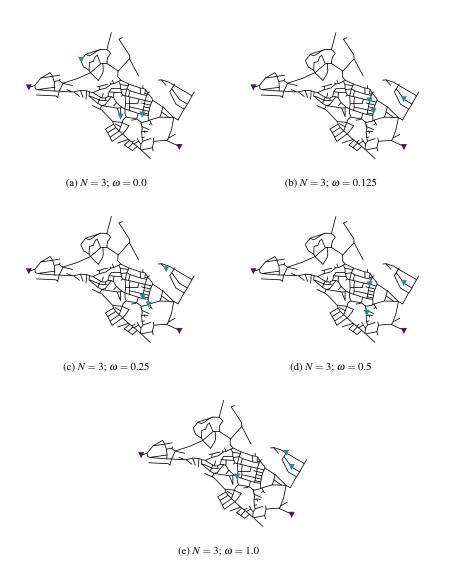


Fig. 2: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for three additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.

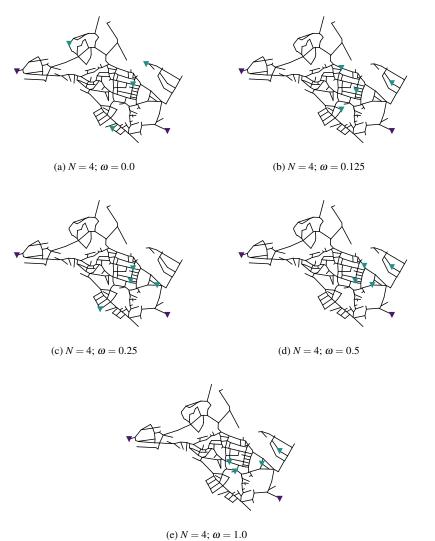


Fig. 3: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for four additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.

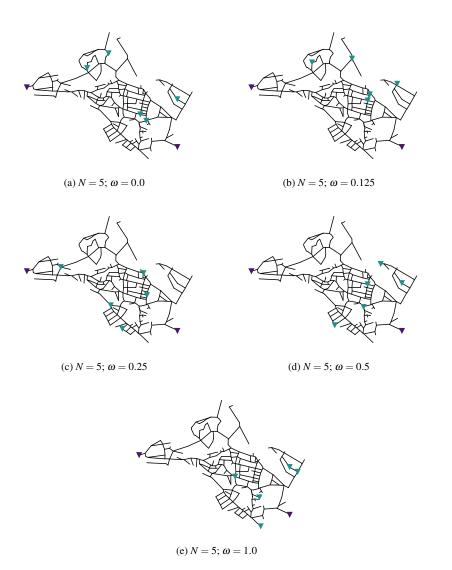


Fig. 4: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for five additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.

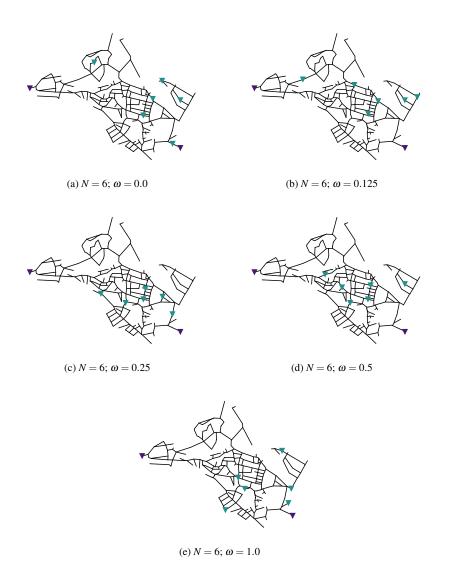


Fig. 5: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for six additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.

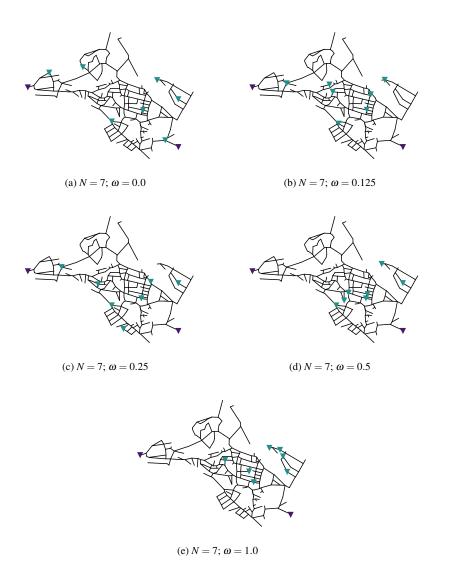


Fig. 6: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for seven additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.

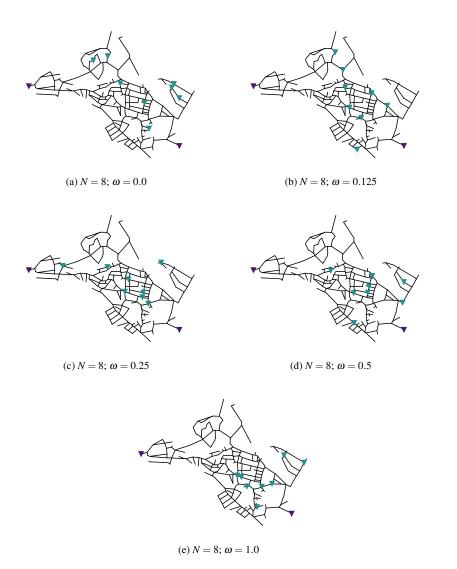


Fig. 7: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for eight additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.

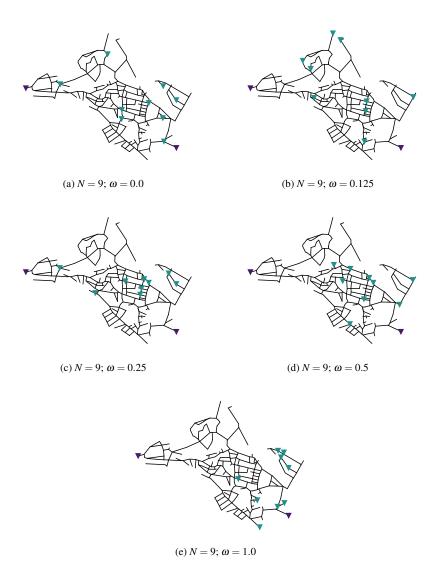


Fig. 8: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for nine additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.



Fig. 9: Sensor positions (green triangles) resulting from the enhanced sensor placement algorithm described for ten additional placed sensors and different weighting factors ω . Already installed sensors at the inflow and outflow point of the DMA are depicted as purple triangles.