Supplementary Materials

Multi-objective Optimization of Experiments using Curvature and Fisher Information Matrix

Erica Manesso[1,2], Srinath Sridharan[3], Rudiyanto Gunawan[1,2,*]

1 Institute of Chemical and Bioengineering, ETH Zurich, 8093 Zurich, Switzerland
2 Swiss Institute of Bioinformatics, 1015 Lausanne, Switzerland
3 Saw Swee Hock School of Public Health, National University of Singapore, Singapore 117549, Singapore
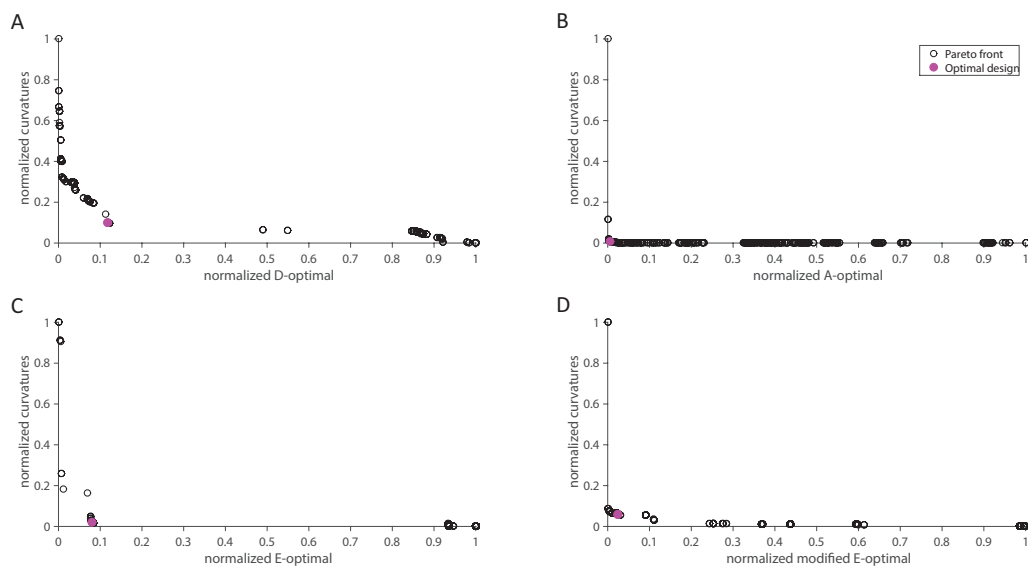
* rudi.gunawan@chem.ethz.ch

Figure S1: Pareto frontier of the MOO MBDOE using curvatures and a FIM-based criterion: (**A**) D-optimal, (**B**) A-optimal, (**C**) E-optimal, (**D**) modified E-optimal. The axes are normalized in the range 0 to 1. The optimal design corresponds to the solution nearest to the origin according to Euclidian distance (shown in magenta).
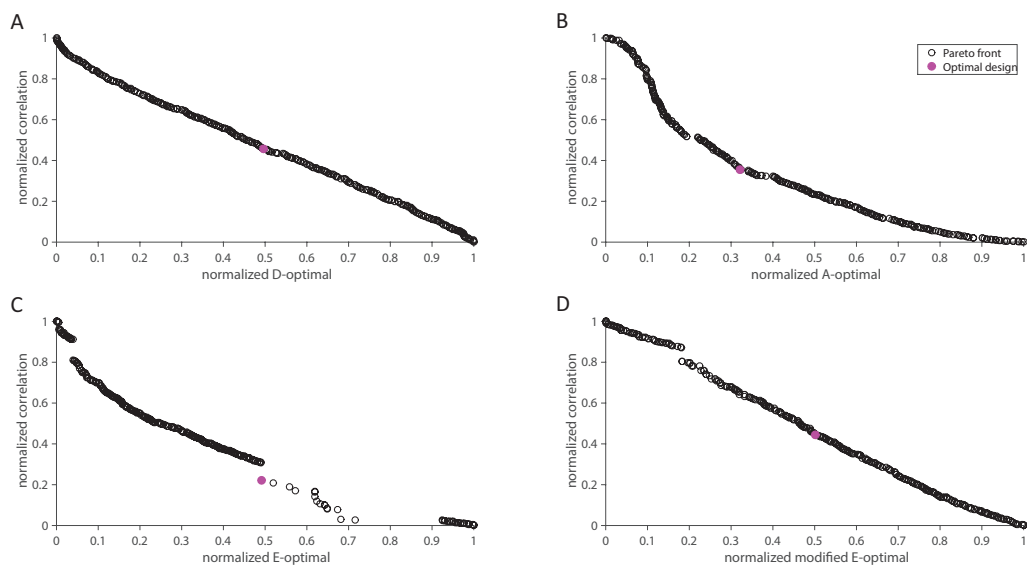
Figure S2: Pareto frontier of the MOO MBDOE using correlation and a FIM-based criterion: (**A**) D-optimal, (**B**) A-optimal, (**C**) E-optimal, (**D**) modified E-optimal. The axes are normalized in the range 0 to 1. The optimal design corresponds to the solution nearest to the origin according to Eucledian distance (shown in magenta).