

# Contents

<b>1</b>	<b>Motivation</b>	<b>6</b>
<b>2</b>	<b>Methodology</b>	<b>6</b>
2.1	Approximation of realisations by unions of convex compact sets . . . . .	6
2.1.1	Covering a realisation by discs with identical radii	6
2.1.2	Voronoi tessellation on a union of discs . . . . .	8
2.2	Support function of a convex compact set . . . . .	8
2.3	Testing equality in distribution of random convex compact sets . . . . .	10
2.3.1	Envelope test . . . . .	10
2.3.2	Test based on $\mathcal{N}$ -distance . . . . .	11
<b>3</b>	<b>Simulation study</b>	<b>12</b>
<b>4</b>	<b>Tumor data</b>	<b>14</b>
	<b>Bibliography</b>	<b>14</b>