

# DIN EN ISO 16610-49:2015-12 (E)

## Geometrical product specifications (GPS) - Filtration - Part 49: Morphological profile filters: Scale space techniques (ISO 16610- 49:2015)

---

<b>Contents</b>	<b>Page</b>
<b>Foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 General scale space background</b> .....	<b>7</b>
4.1 General.....	7
4.2 Size and anti-size distributions.....	7
4.3 Alternating symmetrical filters.....	8
4.4 Nested mathematical models.....	9
<b>5 Recommendations</b> .....	<b>9</b>
5.1 Circular disk structuring element.....	9
5.2 Horizontal line structuring element.....	10
5.3 Default scale space technique.....	10
<b>6 Filter designation</b> .....	<b>10</b>
<b>Annex A (informative) Illustrative examples of scale space</b> .....	<b>11</b>
<b>Annex B (informative) Concept diagram</b> .....	<b>19</b>
<b>Annex C (informative) Relationship to the filtration matrix model</b> .....	<b>20</b>
<b>Annex D (informative) Relationship to the GPS matrix model</b> .....	<b>21</b>
<b>Bibliography</b> .....	<b>22</b>