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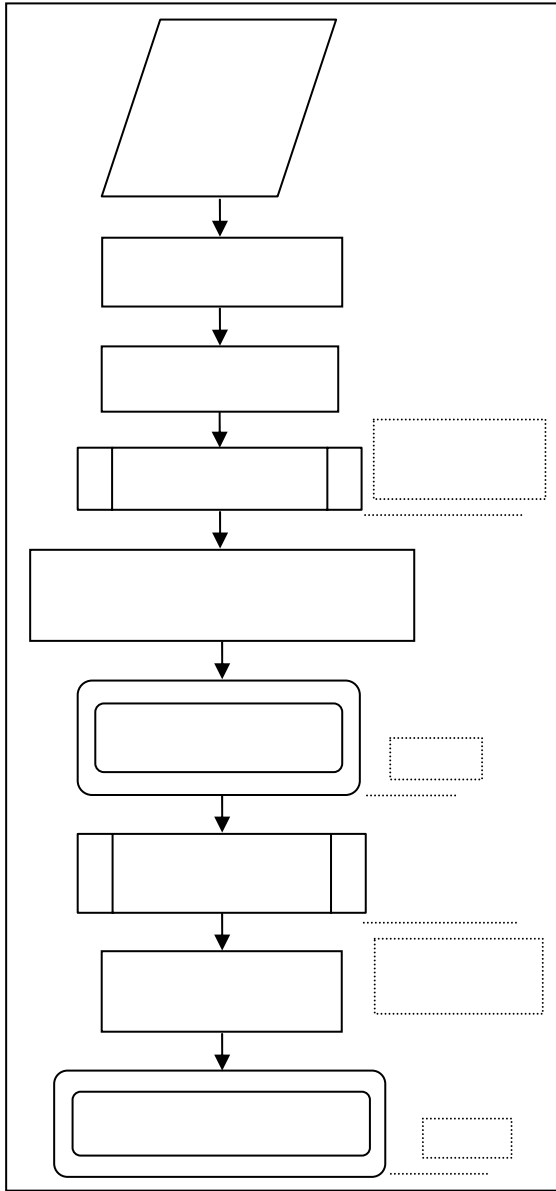
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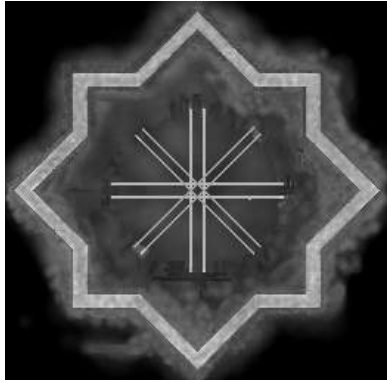
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- VanderBrug<sup>2</sup>
- Rosenfeld<sup>3</sup>
- Gurney<sup>4</sup>
- Sijmons<sup>5</sup>
- Thiessen<sup>6</sup>
- Forghani<sup>7</sup>



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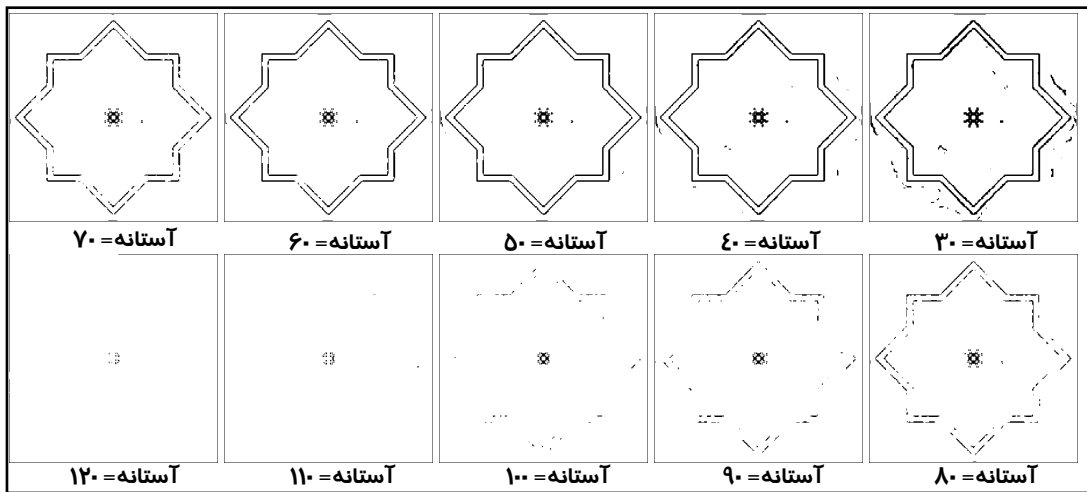
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$$(\%) = [(A+B)/(A+B+C+D)] \times 100$$

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Canny<sup>8</sup>

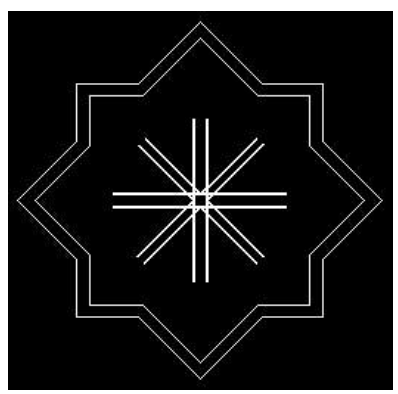
Sobel<sup>9</sup>

Deriche<sup>10</sup>

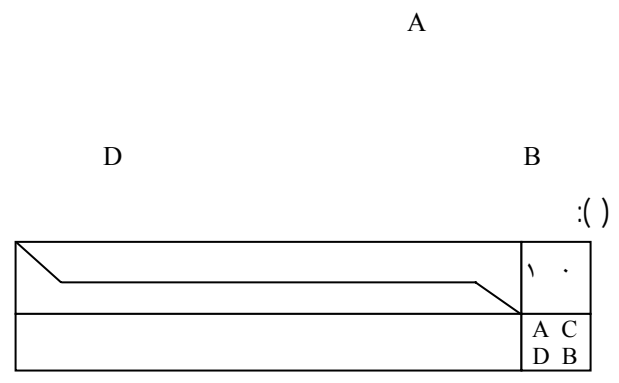
Laplacian of Gaussian<sup>11</sup>

Differential operator 4 Masks<sup>12</sup>

$$\frac{C n}{m} = \frac{(A+B+C+D) m}{m} = \dots$$

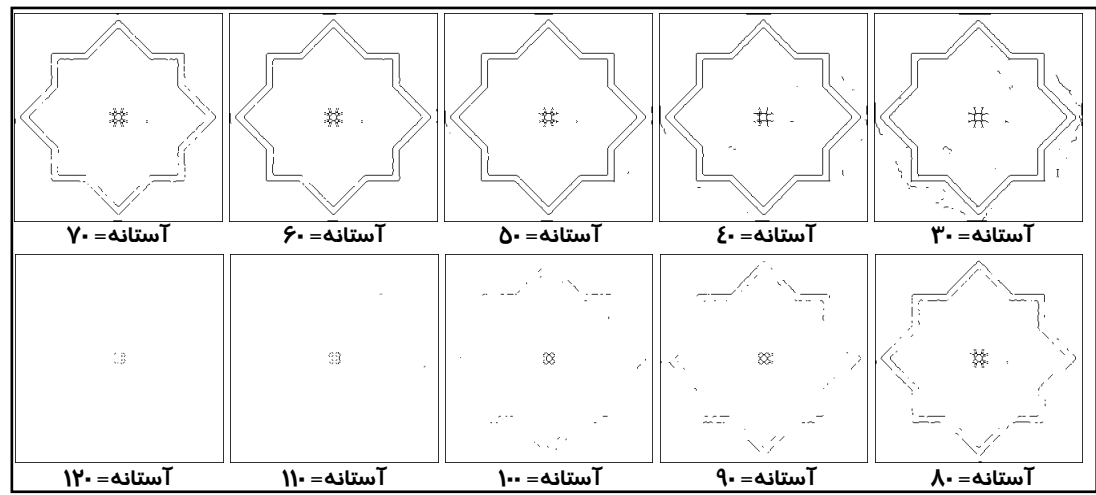


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$$\nabla f(x, y) = \left( \frac{\partial f}{\partial x}(x, y), \frac{\partial f}{\partial y}(x, y) \right) \quad (1)$$

$$|\nabla f(x, y)| = \sqrt{\left( \frac{\partial f}{\partial x}(x, y) \right)^2 + \left( \frac{\partial f}{\partial y}(x, y) \right)^2} \quad (2)$$

$$\phi = \arctg\left( \frac{\frac{\partial f}{\partial x}(x, y)}{\frac{\partial f}{\partial y}(x, y)} \right) \quad (3)$$

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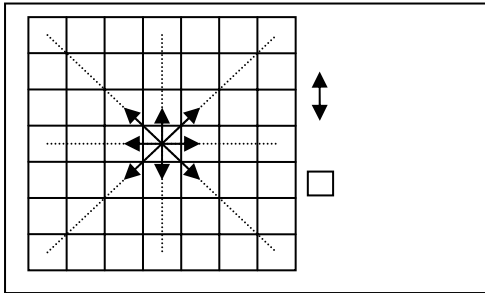
(x,y)

$$\| \nabla f(x,y)_{i+1} - \nabla f(x,y)_i \| \leq T : ($$

$$| \phi(\nabla f(x,y))_{i+1} - \phi(\nabla f(x,y))_i | \leq A : ($$

$$| (x,y)_{i+1} - (x,y)_i | \leq P : ($$

$$\| \nabla f(x,y) \| (x,y) \quad \phi(\nabla f(x,y))$$



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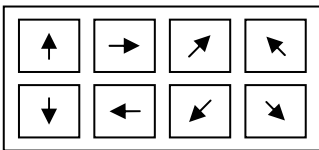
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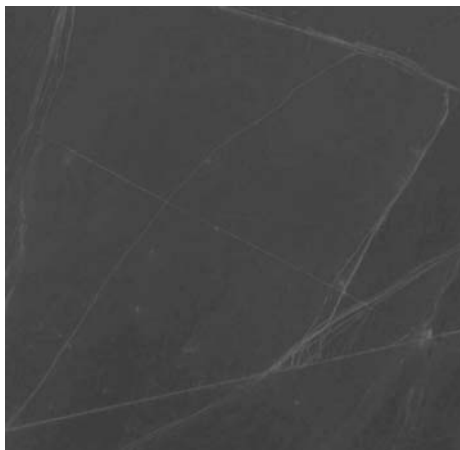
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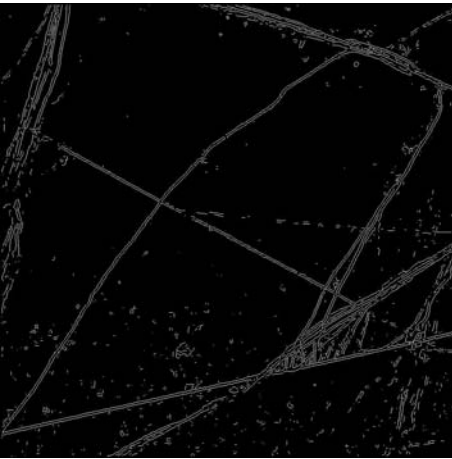


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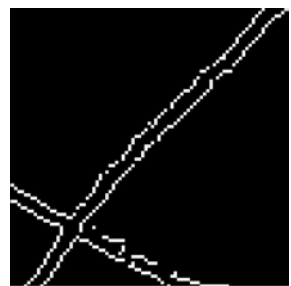
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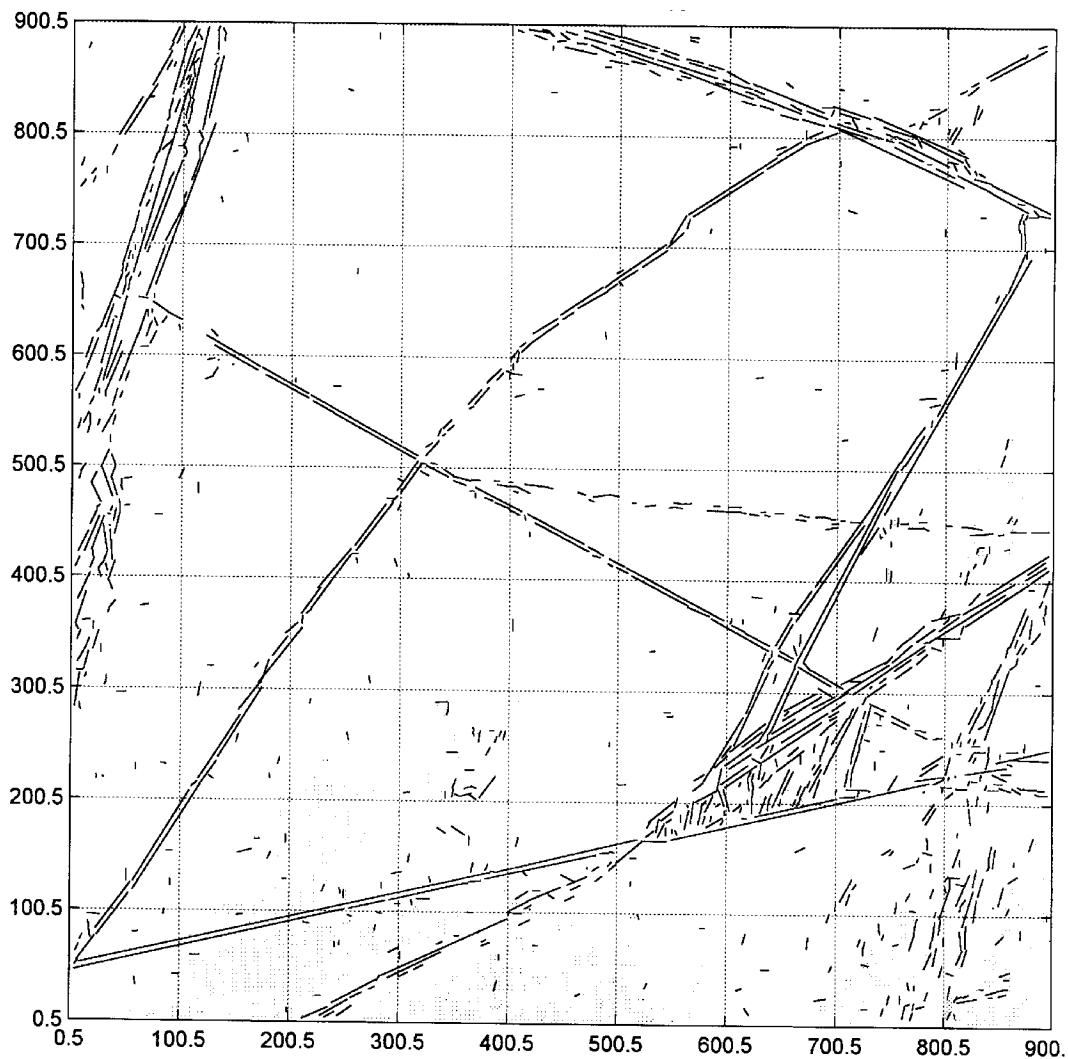
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SPOT<sup>14</sup>

Universal Transverse Mercator<sup>15</sup>



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