

Erratum to: Identification of reservoir fractures on FMI image logs using Canny and Sobel edge detection algorithms

Mina Shafiabadi, Abolghasem Kamkar-Rouhani*, Seyed Reza Ghavami Riabi, Amin Roshandel Kahoo, and Behzad Tokhmechi

School of Mining, Petroleum and Geophysics, Shahrood University of Technology, Shahrood, Iran

Accepted: 13 April 2021

Erratum for: Oil & Gas Science and Technology - Rev. IFP Energies nouvelles 76, 10 (2021) – <https://doi.org/10.2516/ogst/2020086>

Regarding the article “Identification of reservoir fractures on FMI image logs using Canny and Sobel edge detection algorithms, Oil Gas Sci. Technol. – Rev. IFP Energies nouvelles **76**, 10 (2021) – <https://doi.org/10.2516/ogst/2020086>”, published February 2nd, 2021, the authors have noticed that several errors occurred:

Equation (2) should read:

$$\nabla^2 f(x, y) = \frac{\partial^2 f(x, y)}{\partial x^2} + \frac{\partial^2 f(x, y)}{\partial y^2}$$

instead of:

$$\nabla^2 f(xy) = \frac{\partial^2 f(xy)}{\partial x^2} + \frac{\partial^2 f(xy)}{\partial y^2}$$

Equation (5) should read:

$$\phi(x, y) = \arctan(Gx/Gy)$$

instead of:

$$\phi(x, y) = \arctan(Gx/Gy)$$

Equation (7) should read:

$$\text{NLM}(I(q)) = \sum_{\forall q \in \Omega} w(p, q) I(q)$$

instead of:

$$\text{NLM}(I(q)) = \sum_{\forall q \in \Omega} w(p, q) I(q)$$

Equation (8) should read:

$$0 \leq w(p, q) \leq 1, \sum_{\forall q \in \Omega} w(p, q) = 1$$

instead of:

$$0 \leq w(p, q) \leq 1, \sum_{\forall q \in \Omega} (p, q) = 1$$

Equation (9) should read:

$$w(p, q) = \frac{1}{z(p)} e^{-\left[\left(\frac{d(p, q)}{h^2}\right)\right]}$$

instead of:

$$w(p, q) = \frac{1}{z(p)} e^{-\left[\left(\frac{d(p, q)}{h^2}\right)\right]}$$

Equation (10) should read:

$$z(p) = \sum_{\forall q} e^{-\left[\left(\frac{d(p, q)}{h^2}\right)\right]}$$

instead of:

$$z(p) = \sum_{\forall q} e^{-\left[\left(\frac{d(p, q)}{h^2}\right)\right]}$$

* Corresponding author: kamkar@shahroodut.ac.ir