

of Palaeobotany and Palynology, 198: 27–44.

KOHONEN T. 2013. Essentials of the self-organizing map. *Neural Networks*, 37: 52–65.

LANGE FW & PETRI S. 1967. The Devonian of the Paraná Basin. *Boletim Paranaense de Geociências*, 21(22): 5–

55. SEDORKO D, BOSETTI EP, GHILARDI RP, MYSZYNSKI JÚNIOR LJ, SILVA RC & SCHEFFLER SM.

2019. Paleoenvironments of a regressive Devonian section from Paraná Basin (Mato Grosso do Sul state) by integration of ichnologic, taphonomic and sedimentologic analyses. *Brazilian Journal of Geology*, 48(4): 805–820.

SERRA O & ABBOTT HT. 1982. The Contribution of Logging Data to Sedimentology and Stratigraphy. *Society of Petroleum Engineers Journal*, 22(01): 117–131.

THOMAZ FILHO A, MIZUSAKI AMP & ANTONIOLI L. 2008. Magmatismo nas bacias sedimentares brasileiras e sua influência na geologia do petróleo. *Revista Brasileira de Geociências*, 38(2): 128–137.

YE S & RABILLER P. 2000. A New Tool for Electro-Facies Analysis: Multi-Resolution Graph-Based Clustering. In: SPWLA 41st Annual Logging Symposium. Dallas, Texas, p. 1–14.

YE S & RABILLER P. 2005. Automated Electrofacies Ordering. *Petrophysics*, 46(6): 409–423.

ZALAN PV, WOLFF S, ASTOLFI MAM, VIEIRA IS, CONCEIÇÃO JCJ, APPI VT, NETO EVS, CERQUEIRA JR & MARQUES A. 1990. The Paraná Basin, Brazil. In: LEIGHTON MW, KOLATA DR, OLTZ DF & EIDEL JJ (Eds.). *Interior Cratonic Basins (AAPG Memoir 51)* AAPG, Tulsa, p. 681–708.

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