

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Digital Global Systems, Inc.,
Petitioner,

v.

DeepSig, Inc.,
Patent Owner.

IPR2024-01358

U.S. Patent No. 11,018,704

PETITIONER'S UPDATED EXHIBIT LIST

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EXHIBIT LIST	
Exhibit No.	Description
1001	U.S. Patent 11,018,704 to O'Shea et al. ("704 patent")
1002	U.S. Patent 11,018,704 File History
1003	Declaration of Zhi Ding, Ph. D.
1004	Curriculum Vitae of Zhi Ding, Ph. D.
1005	EP 2,538,553 A1 by Jüschke et al. ("Jüschke")
1006	U.S. Patent No. 10,552,738 to Holt et al. ("Holt")
1007	U.S. Patent No. 10,122,479 to Dzierwa ("Dzierwa")
1008	Cooper, V, and Morcom, W. <i>Band I television-transmitter design, with particular reference to the transmitters at Crystal Palace</i> , Proceedings of the IEE-Part B: Radio and Electronic Engineering, Paper No. 2075 R (1956), pp. 651-663 ("Cooper")
1009	Saleh, A. and Salz, J. <i>Adaptive linearization of power amplifiers in digital radio systems</i> , Bell System Technical Journal, Vol. 62, No. 4 (1983), pp. 1019-1033 ("Saleh")
1010	Rosenblatt, F. <i>The perceptron: a probabilistic model for information storage and organization in the brain</i> , Psychological Review, Vol. 65, No. 6, (1958), pp. 386-408 ("Rosenblatt")
1011	Sapna, S., et al. <i>Backpropagation learning algorithm based on Levenberg Marquardt Algorithm</i> . Comp Sci Inform Technol (CS and IT), (2012) pp. 393-398 ("Sapna")
1012	Van Trees, H., et al. <i>Detection, Estimation and Modulation Theory, Part 1</i> , John Wiley & Sons, (2004), https://books.google.com/books?id=Xzp7VkuFqXYC (excerpted) ("Van Trees")
1013	Wang, N., et al. <i>Backhauling 5G small cells: A radio resource management perspective</i> , IEEE Wireless Communications Vol. 22, No. 5 (2015), pp. 41-49 ("Wang")
1014	Lanzani, C., et al. <i>Remote radio heads and the evolution towards 4G networks</i> , (2009), pp. 1-6, http://www.altera.com/literature/wp/wp-01096-rrh-4g.pdf ("Lanzani")
1015	Chen, S., et al. <i>Neural networks for nonlinear dynamic system modelling and identification</i> , IEEE Wireless Communications Vol. 56, No. 2 (1992), pp. 319-346 ("Chen")
1016	Ernst, O. <i>Stochastic Gradient Descent Learning and the Backpropagation Algorithm</i> , (2014) ("Ernst")

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Exhibit No.	Description
1017	Bottou, L. <i>Stochastic Gradient Learning in Neural Networks</i> , Proceedings of Neuro-Nîmes Vol. 91, No. 8 (1991), https://leon.bottou.org/publications/pdf/nimes-1991.pdf ("Bottou").
1018	Petitioner's Demonstrative Exhibits for Oral Hearing scheduled for December 16, 2025

Dated: December 12, 2025

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CERTIFICATE OF SERVICE

I certify that I caused to be served a true and correct copy of the foregoing:
PETITIONER'S UPDATED EXHIBIT LIST and Ex-1018 were served by filing
this document through the Patent Trial and Appeal Case Tracking System (P-
TACTS) on December 12, 2025, and emailing in their entirety to the following:

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