

Austin, June 1st, 2024.

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Dear Editor,

Enclosed is the manuscript entitled *“Advancements and Perspectives in Embedded Discrete Fracture Models*” by *Renato Poli, Marcos Machado, and Kamy Sepehrnoori* for possible publication in Energy Reviews. We confirm this manuscript has not been submitted to any other journal or conference.

The manuscript critically reviews the state-of-the-art of Embedded Discrete Fracture Models (EDFM), providing directions for future work. EDFM techniques have been extensively used in recent years to model fractured oil and gas reservoirs, with more than a thousand papers written in the past 5 years. Because of the great progress, we believe this to be a timely review with great interest for the community. We hope this paper will be helpful for researchers interested in numerical models for fractured reservoirs, especially those working on extensions of EDFM’s capabilities for new classes of problems.

We are pleased to share this work publicly. If you need additional information, please contact us at rpoli@utexas.edu or marcosbarbosa@petrobras.com.br.

Sincerely,

**Renato Espírito Basso Poli**

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Department of Petroleum and Geosystems Engineering