

## Special Issue

# Intelligent Well Technologies: Modeling, Design, Monitoring, and Control Optimization

### Message from the Guest Editors

This Special Issue will focus on intelligent well technologies, including their completion modeling, design, wellbore flow monitoring, and well and field control optimization aspects. **Topics of interest include:** Optimization of the sandface flow control completion design. This includes selection and placement of the right flow control devices and packers, single-bore and multilateral wells, conformance management, etc. Wellbore flow modeling in advanced wells: both steady-state and transient; well-only and well- and reservoir-scale challenges. Real-time monitoring, flow profiling, production logging, well integrity surveillance, and problem detection in intelligent wells. This includes both traditional and new types of sensors (e.g., fiber-optic), and both traditional and novel data interpretation techniques. Well production and/or injection optimization with intelligent wells, both deterministic (i.e., using a single reservoir model realization) and under uncertainty (i.e., dealing with an ensemble of reservoir model realization, finding robust optimum strategies). Active vs. passive and/or autonomous advanced well completions: comparative studies.

### Guest Editors

Dr. Khafiz Muradov

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Prof. Dr. Britt Margrethe Emilie Moldestad

### Deadline for manuscript submissions

closed (30 June 2025)



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