



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Herrn M.Sc. Payman Goodarzi

Messtechnik

(Prof. Dr. Andreas Schütze)

am

Dienstag, 27. Oktober 2026, 15:00 Uhr s.t.

per Videokonferenz: Link für MS Teams: <https://ogy.de/kolPG>

Raum für die Prüfung: Gebäude A5.1, HS -1.03 (Großer Hörsaal)

Thema der Dissertation:

On Domain Shift in Industrial Condition Monitoring

Domain shift is a major challenge in deploying machine learning (ML) for industrial condition monitoring, arising from varying operating conditions, maintenance, or machine modifications. This work systematically analyzes domain shift across real-world scenarios and addresses the problem by combining AutoML, hyperparameter optimization, and test-time domain adaptation. Key contributions include evaluating validation strategies under domain shift, demonstrating that classical feature-based methods can outperform deep learning while maintaining interpretability, and introducing a practical test-time adaptation method integrated into an AutoML framework, thereby bridging ML with industrial engineering practice.

Saarbrücken, 13. Oktober 2026

Prof. Dr.-Ing. Georg Frey