Evren Mert Turan

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SUMMARY

I am a PhD in chemical engineering with a background in process systems engineering, and research experience in optimization, control and machine learning. Specific works include training neural network control policies in closed loop, optimality-based discretization methods for semi-infinite programming, and systematic methods for inventory control of process systems. I am generally interested in the application of optimization, control and machine learning to practical challenges.

SUMMARY OF QUALIFICATIONS

PhD: supervised by Prof. Johannes Jäschke at the Norwegian University of Science and Technology, (March 2024).

Research: the application and development of optimization and machine learning algorithms for process systems engineering problems, with a focus on optimal process operations and control

Esteem: Keynote presentation at 3th IFAC Symposium on Dynamics and Control of Process Systems, including Biosystem (DYCOPS). Invited workshop presentation at 24th International Conference on Process Control

Publications: 4 articles in academic journals, 6 peer reviewed conference papers, several papers in review/preparation

EXPERIENCE

Research experience
PhD and Master's in chemical engineering. Internship at the Council for Scientific and Industrial Research, South Africa.

Teaching experience
Curriculum development and teaching of the 4th year course Chemical Process Systems Engineering at NTNU.
Experience in running tutorial (exercise) sessions for various courses including process modelling and statistics.

Supervisory experience
Co-supervised three master projects, and three 4th year research projects

AWARDS AND ACHIEVEMENTS

Keynote presentation | *Title: Designing neural network control policies under parametric uncertainty*   2022
13th IFAC Symposium on Dynamics and Control of Process Systems, including Biosystems

Research exchange funding | *from the Brazilian-Norwegian Subsea Operations Consurtium Intpart2 mobility grant*   2022
Funding for a 3 month exchange with Professor Argimiro R. Secchi at the Federal University of Rio de Janeiro

Postgraduate Academic Merit Bursary   2019 – 2020
Awarded by the Council for Scientific and Industrial Research (CSIR), South Africa

EDUCATION

PhD in Chemical Engineering   2020–2024
Supervised by Prof. Johannes Jäschke | Norwegian University of Science and Technology (NTNU)
Thesis title: Advances in Optimisation and Machine Learning for Process Systems Engineering.

Master of Science in Chemical Engineering (awarded with Distinction)   2019–2020
Supervised by Prof. Klaus Möller | University of Cape Town
Thesis title: Process Analysis of the Homogeneous Direct Conversion of Methane to Methanol.

Bachelor of Science in Chemical Engineering (awarded with first class honours.)   2015–2018
University of Cape Town