

Curriculum Vitae – Tore Hägglund

Tore Hägglund was born in Lund, Sweden, August 29, 1954. He is Professor at the Department of Automatic Control, Lund Institute of Technology (LTH), Lund, Sweden.

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Degrees

- Master of Science in Engineering Physics at Lund Institute of Technology, 1978
- PhD in Automatic Control at Lund Institute of Technology, 1984
- Honorary Docent in Automatic Control at Lund Institute of Technology, 1989

Employment

- Professor in Automatic Control, Lund Institute of Technology, 1999 –
- Associate Professor in Automatic Control, Lund Institute of Technology, 1989–1999
- Research Engineer, SattControl Instruments AB (now ABB), 1985–1989
- Research assistant in Automatic Control, Lund Institute of Technology, 1978–1985

Tore Hägglunds' PhD thesis dealt with adaptive control and fault detection. During PhD studies he also developed the relay autotuner for automatic tuning of PID controllers together with professor Karl Johan Åström. The method got patented and is now implemented in many industrial products.

In 1985 he joined the company SattControl Instruments (now ABB) to implement automatic tuning methods and to develop new industrial adaptive controllers.

Having completed the work at SattControl Instruments he returned to the Department of Automatic Control in 1989. Since then his main research interests have been process control, adaptive control, supervision, and diagnosis. Some of the research results are: A new dead-time compensating controller, methods for supervision of PID controllers and automatic detection of friction in valves, and a method to compensate for static friction in control valves. All these methods have resulted in industrial products.

Tore Hägglund has written several books. Together with Professor K. J. Åström he has written *Automatic Tuning of PID Controllers, PID Controllers, Theory, Design, and Tuning*, and *Advanced PID Control*, books that summarize their experience in PID and process control. The book *Praktisk Processreglering* (in Swedish) covers basic control technology, and is aimed primarily for industrial instrument engineers. It is translated to English: *Process Control in Practice*.