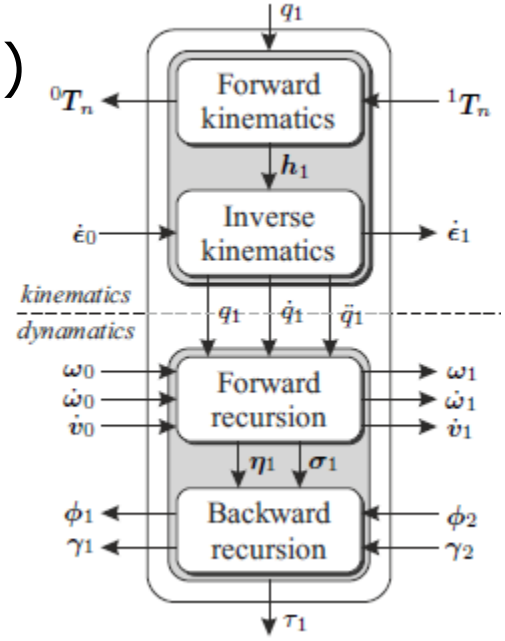
Portierung 4DIAC Robotersteuerung

- Aufgabe / Task:
  - Adaptieren einer bestehenden IEC 61499 Implementierung (4DIAC)
  - Aufbau eines Testsystems (mit IRB 120)
  - Portierung / Verteilung der 4DIAC Applikation auf Festo CPX Kleinsteuerung(en)
- Supervisor
  - Michael Steinegger steinegger@acin.tuwien.ac.at
- Anzahl Studenten / Number of students: 1



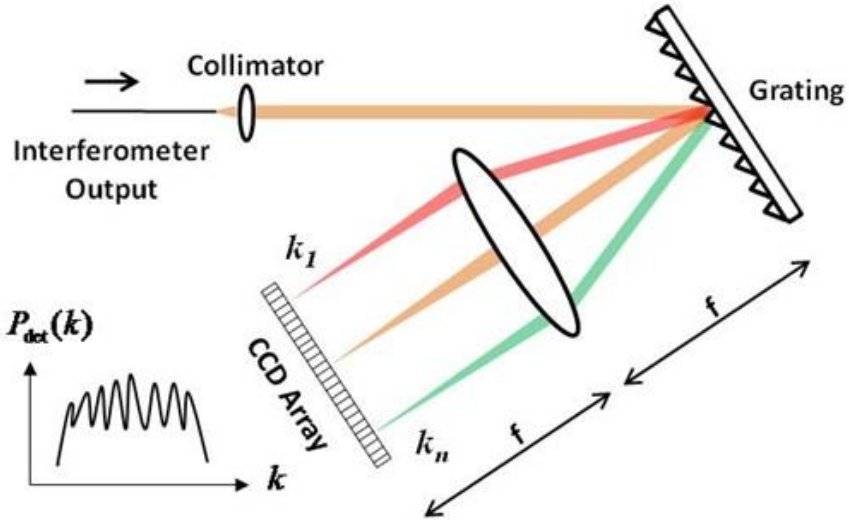
Advanced Motion Control for an Optical Telescope

- Problem
  - Commercially available telescope systems only implement a very rudimentary motion control, which is unsuitable for our research tasks.
- Task
  - Development, implementation and characterisation of an advanced motion control system for an optical telescope with worm drive

- Supervisors
  - Riel Thomas, riel@acin.tuwien.ac.at
  - Andreas Sinn, sinn@acin.tuwien.ac.at
- Anzahl Studenten / Number of students: 1

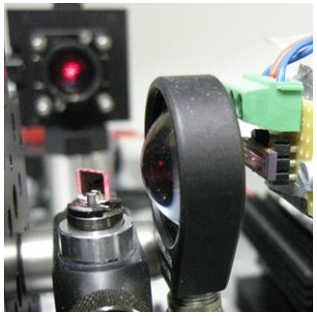
Optical Spectrum Analyzer

- Problem
  - The characterisation of many optical components, such as lasers or optical modulators, requires spectral information of the emited or transmitted light
- Task
  - Investigation and evaluation of a grating based optical spectrum analyzer

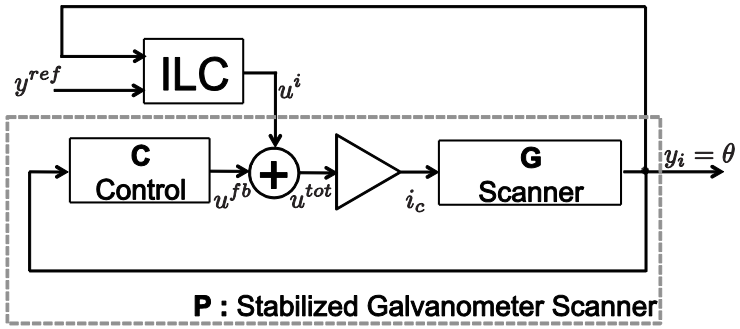


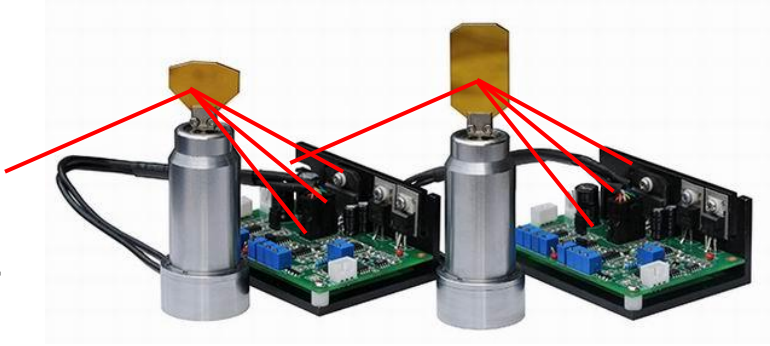
- Supervisors
  - Riel Thomas, riel@acin.tuwien.ac.at
  - Andreas Sinn, sinn@acin.tuwien.ac.at
- Number of students: 1

Synchronization of two Heterogeneous Optical Scanners



- Aufgabe / Task:
  - System characterization and feedback stabilization: Galvanometer scanners
  - Design of a iterative feedforward control for synchronization of both trajectories
  - Implementation and evaluation of the developed algorithm in galvanometer scanner
- Supervisor
  - Han Woong Yoo, yoo@acin.tuwien.ac.at
- Anzahl Studenten / Number of students: 1





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