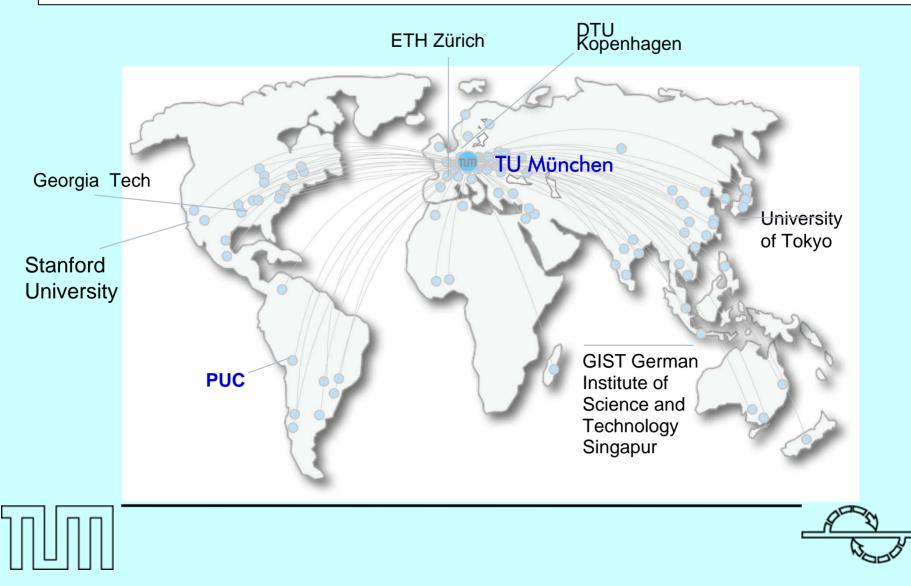


Pontificia Universidad Católica de Chile

TECHNISCHE UNIVERSITÄT MÜNCHEN

Worldwide Cooperation Partners



Institut für Informationstechnik Lehrstuhl für Prozeßrechner

BEITRÄGE ZUR ANWENDUNG MIKROPROGRAMMIERBARER MEHRPROZESSORSYSTEME ZUR DIGITALEN SIMULATION DYNAMISCHER SYSTEME

ALDO CIPRIANO geboren am 29. Januar 1950 in Santiago de Chile

Vollständiger Abdruck der von der Fakultät für Elektrotechnik der Technischen Universität München zur Erlangung des akademischen Grades eines

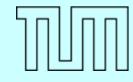
Doktor-Ingenieurs

genehmigte Dissertation.

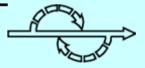
Vorsitzender:	Prof.	DrIng.	н.	Marko
1. Prüfer:	Prof.	DrIng.	G.	Färber
2. Prüfer:	Prof.	DrIng.	G.	Schmidt

Die Dissertation wurde am 30. Januar 1981 bei der Technischen Universität München eingereicht und durch die Fakultät für Elektrotechnik am 11. April 1981 angenommen.

Tag der Promotion: 16. April 1981

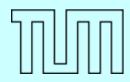


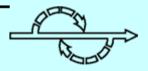
Personal Link between TUM - PUC





Location

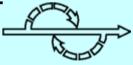




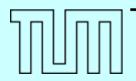




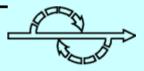
München: "Weltstadt mit Herz" "The Cosmopolitan City with a Heart"



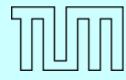


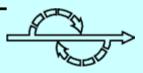


The Annual Beer Festival



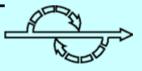
Technische Universität München TUM





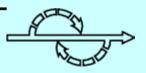


City Campus within the Museum Quarter

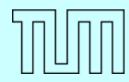


TUM – Some Numbers

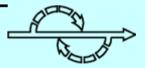
- TUM established by King Ludwig II of Bavaria in 1868
- 14 Faculties
- 17 Collaborative Research Centres
- 22,000 students: 35% female, 20% international
- 9,000 staff members, including scientific and other staff
- 400 Professors
- 2600 Graduates: Diploma, Master, Double degrees
- 750 Doctor and Habiltation degrees
- Budget 0.8 billion €, 50% staff expenses
- Campuses: München, Garching, Weihenstephan/Freising







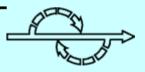




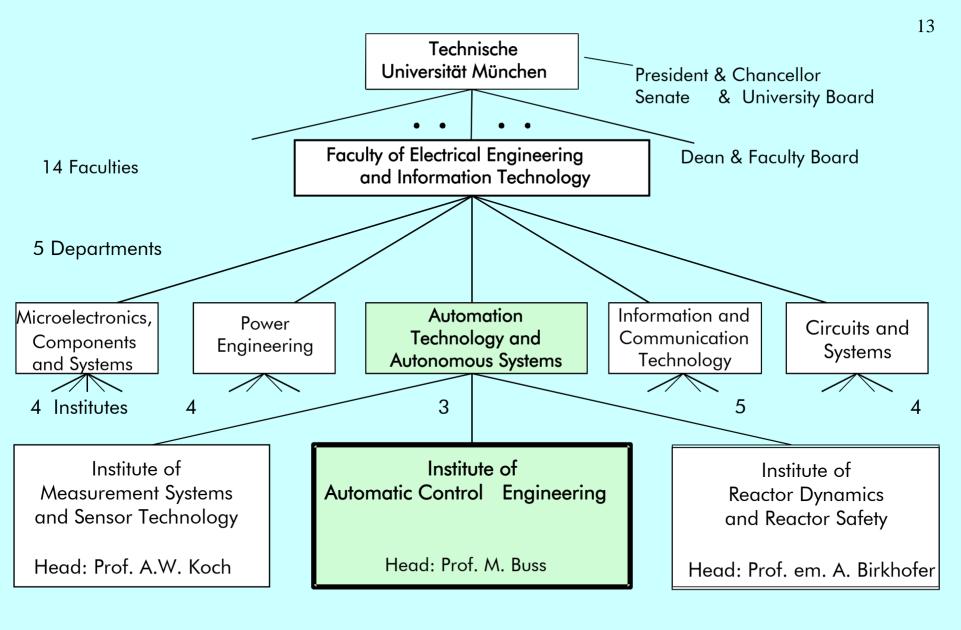
Faculties

- 1. Mathematics
- 2. Physics
- 3. Chemistry, Biology and Earth Sciences
- 4. Economics and Social Sciences
- 5. Civil Engineering and Surveying
- 6. Architecture
- 7. Mechanical Engineering

- 8. Electrical Engineering and Information Technology
- 9. Computer Science
- 10. Argiculture and Horticulture
- 11. Brewing, Food Technology and Dairy Science
- 12. Medicine
- 13. Sport Science
- 14. Forest Science

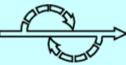






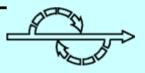


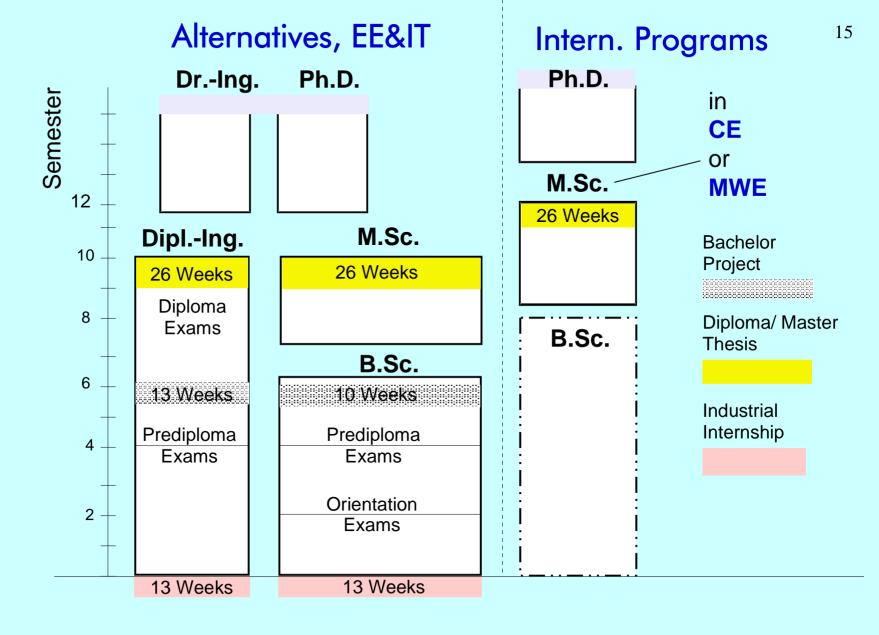
Organization



Faculty of Electrical Engineering and Information Technology 2007

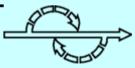
- 2,000 students
- 750 1st year students, 50% international
- 250 graduates: Dipl.-Ing., M.Sc.
- 120 technical and other staff members
- 20 Full Professors and Institutes
 17 Associate Professors
- 300 research/teaching assistants



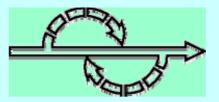




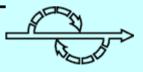
Educational Programs







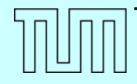


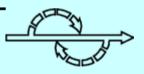


Head:	Professor Martin Buss, DrIng. Univ. Tokyo
Associates:	Professor Sandra Hirche, DrIng. Information-oriented Control Professor Olaf Stursberg, DrIng. Industrial Automation Systems
Emeritus:	Professor Günther Schmidt, DrIng. DrIng. h.c. Interactive Systems and Control
Scientific:	50 researchers and teaching assistants
Staff:	10
Visiting:	3

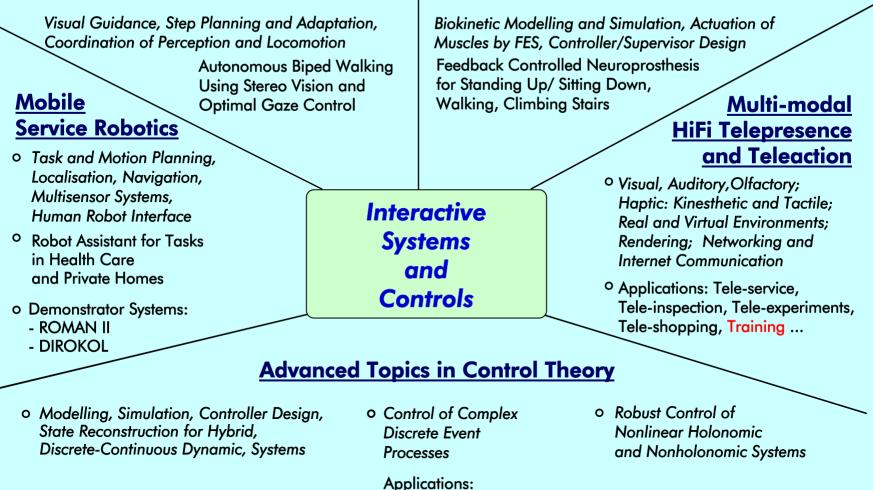
Educational Activities for students of

- Electrical Engineering and Information Technology
- Industrial Information Technology and Automation (Option)



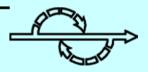


Vision-Guided Robot Walking



Control of Flexible Assembly and Manufacturing Systems or Telephone Call Centers Grasping with Dextrous Robotic Hands, Control of Underactuated Mechatronic Systems, e.g. SCARA Robot Arm, Vehicles





Recent Research Activities

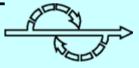
Sensorimotor Systems, Neuroprosthetics

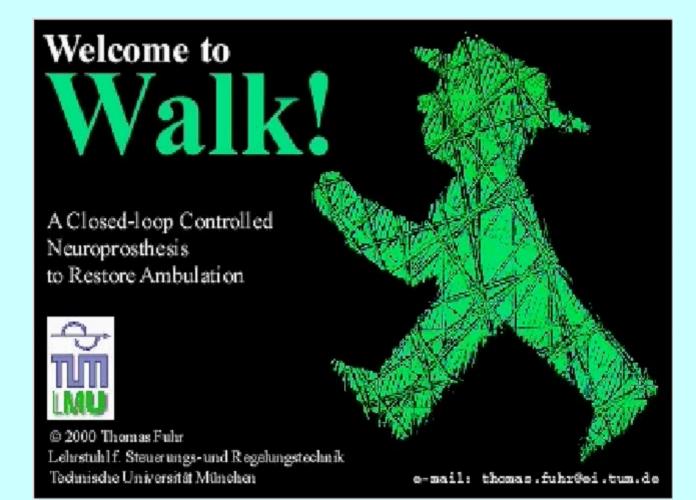






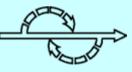
Hybrid Systems: Dextrous Manipulation

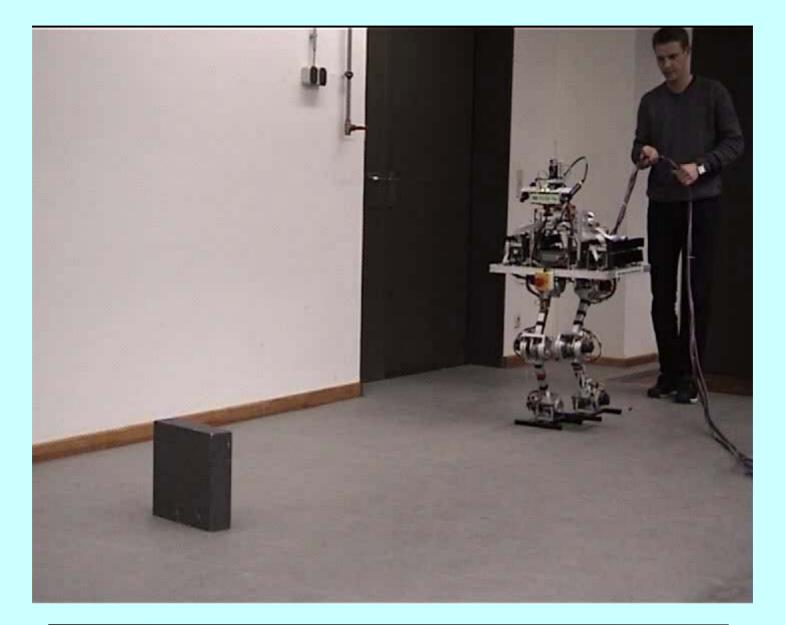






Neuroprosthetics: Step Ascent/Descent









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