



OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

CDS RESEARCH CENTER DYNAMIC SYSTEMS SYSTEMS ENGINEERING

Research Center Dynamic Systems (CDS): Systems Engineering

The **Research Center Dynamic Systems (CDS)** is a central scientific institution at the Otto-von-Guericke-University Magdeburg according to the university law of Saxony-Anhalt. The CDS unites research groups from engineering, systems theory, mathematics, medicine and biology. Scientists from six faculties of the Otto-von-Guericke University and from the Max Planck Institute work together closely and interdisciplinarily in order to achieve the jointly set goals.



FACULTY OF
ELECTRICAL ENGINEERING AND
INFORMATION TECHNOLOGY



FACULTY OF PROCESS
AND SYSTEMS ENGINEERING



FACULTY OF
COMPUTER SCIENCE



CENTER FOR
DYNAMIC SYSTEMS
SYSTEMS ENGINEERING



FACULTY OF
MATHEMATICS



FACULTY OF
NATURAL SCIENCES



FACULTY OF
MEDICINE



MAX PLANCK INSTITUTE
FOR DYNAMICS OF COMPLEX
TECHNICAL SYSTEMS
MAGDEBURG

The aim of the CDS is to gain a basic understanding of complex dynamic systems in biomedicine, chemical production systems and energy conversion processes. The central dogma is the analysis, targeted manipulation and synthesis of these systems, including mathematical modelling as linking subject.

The [SmartProSys](https://www.smartprosys.ovgu.de/) (<https://www.smartprosys.ovgu.de/>) research cluster was developed out of the CDS. SmartProSys is an initiative that focuses on the sustainable production of chemicals.

The CDS is funded by the State of Saxony-Anhalt within the framework of the European Regional Development Fund (ERDF).



EUROPAISCHE UNION
EFRE
Europäischer Fonds für
regionale Entwicklung

News

16.06.2022

New president of the scientific organization ECDO

19.05.2022

Prof. Dr. Sanaz Mostaghim re-elected to the Digital Council of Saxony-Anhalt

> more...

Next events

> **Faculty Colloquium Prof. Dietmar Kröner and Prof. Gerald Warnecke**

When? June 30, 2022, 5 p.m. - 7 p.m.

Where? in the Lukasklausur

Topics? Conservation Laws in Germany & C.F. Gauss and Geodesy

Registration: no registration required



CDS Koordination

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