

## **Dipl.-Ing. Dr. Daniel Muschick, BSc**

born 1983 in Graz (A)

### **Education and Experience**

2001	A-levels at AHS Seebachergasse (Graduated with distinction)
2002	Civilian service
2001-2008	M.Sc. in Telematics (Computer Engineering) at Graz University of Technology with specialisation in automation and control (Graduated with distinction)
2006-2007	Year abroad (Erasmus; Lille, France)
2008-2014	Ph.D. in Control Engineering at Graz University of Technology Dissertation: "Online-Parameteridentifikation bei Asynchronmaschinen" (Graduated with distinction)
2009-2010	Scientific employee at the Institute of Automation and Control at Graz University of Technology Project „Collaborative Microdrones“
2010-2014	University assistant at the Institute of Automation and Control at Graz University of Technology Research focus: Online parameter identification for induction motors
Since 2015	Scientific employee at BEST – Bioenergy and Sustainable Technology (formerly known as BIOENERGY 2020+ GmbH), location Graz Area: Automation and Control

### **Research Areas**

- Energy management for hybrid energy systems
- Modelling, simulation and control of combustion and thermal processes as well as robots in agriculture
- Simulation and control of heating systems

### **Selected Publications**

MOSER A., MUSCHICK D., GÖLLES M., NAGELER P., SCHRANZHOFFER H., MACH T., RIBAS TUGORES C., LEUSBROCK I., STARK S., LACKNER F., HOFER A.:  
A MILP-based modular energy management system for urban multi-energy systems: Performance and sensitivity analysis. – in: Applied Energy (2020)

UNTERBERGER V., NIGITZ T., Luzzu M., MUSCHICK D., GÖLLES M.:  
Adaptive Methods for Energy Forecasting of Production and Demand of Solar Assisted Heating Systems. – in: Proceedings of the ITISE 2018 International Conference on Time Series and Forecasting (2018).

KELZ J., ZEMANN C., MUSCHICK D., KRENN O., HOFMEISTER G., WEISSINGER A., GÖLLES M., HOCHENAUER C.:  
Evaluation of the Combustion Behaviour of Straw, Poplar and Maize in a Small-Scale Biomass Boiler – in: Proceedings 25th European Biomass Conference and Exhibition (2017)