



POSTDOC POSITION within the ERC-Advanced Grant

“From Open to Closed Loop Optimal Control of PDEs”

[Institute of Mathematics and Scientific Computing](#)
University of Graz

About the project: The project addresses a broad spectrum in optimal control of PDEs and focusses on some of the most pressing topics: High dimensional Hamilton Jacobi Bellman equations arising in feedback control, non-smooth, and possibly non-convex optimal control and related computational techniques. The use of optimal control techniques for deep learning can be another focus point for the future collaborator’s research.

Professional qualifications: Doctoral degree in a mathematical branch of study. Solid knowledge in applied mathematics, including PDEs, with specialization in either analytical or computational techniques. Experience in the numerical treatment of *high-dimensional* partial differential equations is especially welcome. Alternatively, specialization in optimal control, calculus of variations, or optimization is highly appreciated.

Contact person and grant holder:

Prof. Karl Kunisch, University of Graz and Radon Institute, Austrian Academy of Sciences,
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Applications with a detailed CV including a publication list and a *compact* statement of previous achievements and research interests should be sent to: vanessa.peinhart@uni-graz.at.

Application Deadline: January 15, 2018