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Altenbergerstrasse, 69, 4040 Linz, Austria. *Recent trends in Multi-parameter Regularization.*

We are going to discuss recent developments in multi-parameter regularization. We will consider the schemes with several a priori given penalty terms as well as the schemes with adaptively chosen penalty. New regularization multi-parameters choice rules will be proposed and analyzed. Moreover, numerical illustrations from several application areas will be demonstrated. (Received September 20, 2011)