The use of monetary utility functions to determine a fair surplus sharing in an insurance contract

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We use the theory of coherent utility functions to calculate insurance premia and to link them to legal requirements. Part of the premium must then be seen as an investment in the company. We use the same approach to determine a fair surplus sharing between the insured and the share holders. Important in this approach is to find a fair compensation for the risk of losing invested money. This is joint work with Delia Coculescu (Uni Zurich), Artzner (Uni Strasbourg) and Eisele (Uni Strasbourg).