

1. Record Nr.	UNINA9910346901203321
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Titolo	Modified mass-spring system for physically based deformation modeling
Pubbl/distr/stampa	KIT Scientific Publishing, 2011
ISBN	1000024308
Descrizione fisica	1 electronic resource (VII, 222 p. p.)
Collana	Karlsruhe transactions on biomedical engineering / Ed.: Karlsruhe Institute of Technology / Institute of Biomedical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Mass-spring systems are considered the simplest and most intuitive of all deformable models. They are computationally efficient, and can handle large deformations with ease. But they suffer several intrinsic limitations. In this book a modified mass-spring system for physically based deformation modeling that addresses the limitations and solves them elegantly is presented. Several implementations in modeling breast mechanics, heart mechanics and for elastic images registration are presented.