Home ► All Journals ► Scandinavian Actuarial Journal ► List of Issues ► Volume 2017, Issue 3 A lattice-based model to evaluate variab

Scandinavian Actuarial Journal > Volume 2017, 2017 - Issue 3

174 3

Views CrossRef citations to date Altmetric

Articles

A lattice-based model to evaluate variable annuities with guaranteed minimum withdrawal benefits under a regimeswitching model

M. Costabile

Pages 231-244 | Accepted 01 Nov 2015, Published online: 14 Dec 2015

66 Cite this article

⚠ https://doi.org/10.1080/03461238.2015.1119716

Check for updates

Sample our **Business & Industry Journals** to the latest two volumes for 14 days

Full Article

Figures & data

References

66 Citations

Metrics

Reprints & Permissions

Read this article

Abstract

We consider the problem of evaluating variable annuities with a guaranteed minimum withdrawal benefit under a regime-switching model. We propose a trinomial lattice model to approximate the evolution of the investment fund value and the policy value

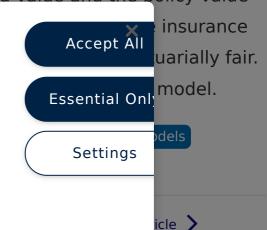
at incep fee is co

Numeric



About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our Privacy Policy



Acknowledgements

The author wishes to thank two anonymous referees for helpful comments and suggestions. All remaining errors are the sole responsibility of the author.

Notes

No potential conflict of interest was reported by the author.

1 In the case of , we set , hence . In other words, once the reference fund reaches zero it stays trapped there until maturity.

2 The existence of the solution is shown in the Appendix 4.

Related research

People also read

Recommended articles

Cited by

Valuing variable annuities with path-dependent surrender guarantees under regime-switching Lévy models >

Meigiao Ai et al.

Scandinavian Actuarial Journal Published online: 1 Aug 2022

About Cookies On This Site



We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our Privacy Policy

Accept All

Essential Only

Settings

Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up











Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions



Accessibility

Registered in England & Wales No. 3099067 5 Howick Place | London | SW1P 1WG

About Cookies On This Site



We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our Privacy Policy



Essential Onl

Settings