



Advance stochastic models with financial risk applications

[

2024

text (article)

Analítica

A probabilistic framework applied in financial models is not recent. At the beginning of the last century, Bachelier (1900) already enunciated in his doctoral thesis "Théorie de la speculation", supervised by Henri Poincare, what we now call Brownian motion. However, it was the papers by Black, Scholes and Merton (1973) on financial options that introduced a new way of using probability theory in finance. Since then, mathematical concepts such as stochastic processes, martingales or stochastic integration have been increasingly used to describe the behavior of financial markets and assets. In this paper, we will explain a new approach based on stochastic variational calculus on the Wiener space. The motivation will be the management of financial risks. We will start from a probability space, the Brownian motion and a filtration. The objective will be to propose new advance stochastic models with financial risk applications

A probabilistic framework applied in financial models is not recent. At the beginning of the last century, Bachelier (1900) already enunciated in his doctoral thesis "Théorie de la speculation", supervised by Henri Poincare, what we now call Brownian motion. However, it was the papers by Black, Scholes and Merton (1973) on financial options that introduced a new way of using probability theory in finance. Since then, mathematical concepts such as stochastic processes, martingales or stochastic integration have been increasingly used to describe the behavior of financial markets and assets. In this paper, we will explain a new approach based on stochastic variational calculus on the Wiener space. The motivation will be the management of financial risks. We will start from a probability space, the Brownian motion and a filtration. The objective will be to propose new advance stochastic models with financial risk applications

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzY4OTQ4MTg>

Título: Advance stochastic models with financial risk applications electronic resource].]

Editorial: 2024

Tipo Audiovisual: cálculo estocástico de variaciones derivado cobertura gestión de riesgos stochastic variational calculus derivative hedge risk management

Documento fuente: Anales de ASEPUMA, ISSN 2171-892X, N°. 32, 2024

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Condiciones de uso y reproducción: LICENCIA DE USO: Los documentos a texto completo incluidos en Dialnet son de acceso libre y propiedad de sus autores y/o editores. Por tanto, cualquier acto de reproducción, distribución, comunicación pública y/o transformación total o parcial requiere el consentimiento expreso y escrito de aquéllos. Cualquier enlace al texto completo de estos documentos deberá hacerse a través de la URL oficial de éstos en Dialnet. Más información: <https://dialnet.unirioja.es/info/derechosOAI> | INTELLECTUAL PROPERTY RIGHTS STATEMENT: Full text documents hosted by Dialnet are protected by copyright and/or related rights. This digital object is accessible without charge, but its use is subject to the licensing conditions set by its authors or editors. Unless expressly stated otherwise in the licensing conditions, you are free to linking, browsing, printing and making a copy for your own personal purposes. All other acts of reproduction and communication to the public are subject to the licensing conditions expressed by editors and authors and require consent from them. Any link to this document should be made using its official URL in Dialnet. More info: <https://dialnet.unirioja.es/info/derechosOAI>

Lengua: Spanish

Enlace a fuente de información: Anales de ASEPUMA, ISSN 2171-892X, N°. 32, 2024

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es