

An up-close look at the theory behind and application of extremum seeking

Originally developed as a method of adaptive control for hard-to-model systems, extremum-seeking solves some of the same problems as today's neural network techniques, but in a more rigorous and practical way. Following the resurgence in popularity of extremum-seeking control in aerospace and automotive engineering, *Real-Time Optimization by Extremum-Seeking Control* presents the theoretical foundations and selected applications of this method of real-time optimization.

Written by authorities in the field and pioneers in adaptive nonlinear control systems, this book presents both significant theoretical value and important practical potential. Filled with in-depth insight and expert advice, *Real-Time Optimization by Extremum Seeking Control*

- Develops optimization theory from the points of dynamic feedback and adaptation
- Builds a solid bridge between the classical optimization theory and modern feedback and adaptation techniques
- Provides a collection of useful tools for problems in this complex area
- Presents numerous applications of this powerful methodology
- Demonstrates the immense potential of this methodology for future theory development and applications

Real-Time Optimization by Extremum-Seeking Control is an important resource for both students and professionals in all areas of engineering—electrical, mechanical, aerospace, chemical, biomedical—and is also a valuable reference for practicing control engineers.

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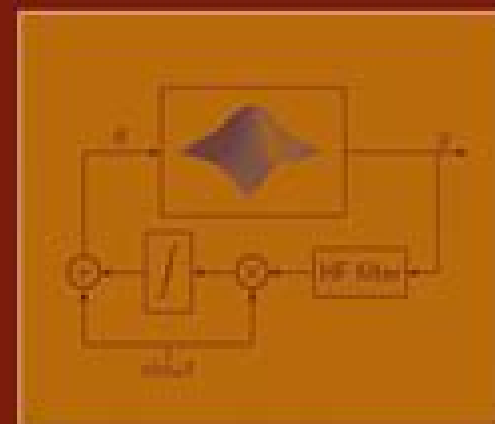


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4th European Conference of the International Federation for Medical and Biological Engineering 23 - 27 November 2008, Antwerp, Belgium Jos van der Sloten, Pascal Verdonck, Marc Nyssen, Jens Haueisen, 2009-02-04 The 4th European Congress of the International Federation for Medical and Biological Federation was held in Antwerp November 2008 The scientific discussion on the conference and in this conference proceedings include the following issues Signal Image Processing ICT Clinical Engineering and Applications Biomechanics and Fluid Biomechanics Biomaterials and Tissue Repair Innovations and Nanotechnology Modeling and Simulation Education and Professional **Robotics and Automation in the Food Industry** Darwin G Caldwell, 2012-12-03 The implementation of robotics and automation in the food sector offers great potential for improved safety quality and profitability by optimising process monitoring and control Robotics and automation in the food

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Witthayāsān Kasētsārt ,2015-05 *The Canadian Journal of Chemical Engineering* ,2008-08 **IFAC-IFIP Symposium on Real-time Digital Control Applications** A. Alonso-Concheiro,1983 Real Time Digital Control Applications A. Alonso-Concheiro,International Federation for Information Processing,1984 Covers applications in metal processing monitoring failure detection adaptive control fuel heat control cement industry robotics industrial applications education modelling identification software etc *Mathematical Reviews* ,2008 *AIAA Journal* American Institute of Aeronautics and Astronautics,2007 *Forthcoming Books* Rose Army,2003 **Interfaces** ,2004 Seeks to improve communication between managers and professionals in OR MS **Choice** ,2004

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