



# Advanced and Intelligent Control in Power Electronics and Drives [

Orowska-Kowalska, Teresa,

ed. lit

Blaabjerg, Frede,

ed. lit

El Gomerito,

ed. lit

Springer International Publishing,

2014

Engineering

Artificial intelligence

Production of electric energy or

Computational Intelligence

Control and Systems Theory

Artificial

Intelligence

Power Electronics, Electrical Machines and Networks

Monografía

Power electronics and variable frequency drives are continuously developing multidisciplinary fields in electrical engineering, and it is practically not possible to write a book covering the entire area by one individual specialist. Especially by taking account the recent fast development in the neighboring fields like control theory, computational intelligence and signal processing, which all strongly influence new solutions in control of power electronics and drives. Therefore, this book is written by individual key specialist working on the area of modern advanced control methods which penetrates current implementation of power converters and drives. Although some of the presented methods are still not adopted by industry, they create new solutions with high further research and application potential. The material of the book is presented in the following three parts: Part I: Advanced Power Electronic Control in Renewable Energy Sources (Chapters 1-4), Part II: Predictive Control of Power Converters and Drives (5-7), Part III: Neurocontrol and Nonlinear Control of Power Converters and Drives (8-11). The book is intended for engineers, researchers, and students in the field of power electronics and drives who are interested in the use of advanced control methods and also for specialists from the control theory area who like to explore new area of applications

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzYwMzMwMzA>

**Título:** Advanced and Intelligent Control in Power Electronics and Drives [Recurso electrónico] edited by Teresa Orowska-Kowalska, Frede Blaabjerg, José Rodríguez

**Editorial:** Cham Springer International Publishing Imprint: Springer 2014

**Editorial:** Cham Springer International Publishing 2014

**Descripción física:** XX, 410 p. 284 il., 161 il. col

**Mención de serie:** Studies in Computational Intelligence 531

**Nota general:** Bibliographic Level Mode of Issuance: Monograph

**Bibliografía:** Includes bibliographical references

**Contenido:** Part I: Advanced Power Electronic Control in Renewable Energy Sources -- Part II: Predictive Control of Power Converters and Drives -- Part III: Neuro and Nonlinear Control of Power Converters and Drives

**Lengua:** English

**ISBN:** 9783319034010 9783319034027 9783319034003 9783319342870

**Materia:** Engineering Artificial intelligence Production of electric energy or Computational Intelligence Control and Systems Theory Artificial Intelligence Power Electronics, Electrical Machines and Networks

**Autores:** Orowska-Kowalska, Teresa, ed. lit Blaabjerg, Frede, ed. lit El Gomerito, ed. lit

**Enlace a serie principal:** Studies in Computational Intelligence (CKB)1000000000238186 (DLC) (OCoLC) 1860-9503

**Enlace a formato físico adicional:** 3-319-03400-6

**Punto acceso adicional serie-Título:** Studies in Computational Intelligence 531

---

### **Baratz Innovación Documental**

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