

1. Record Nr.	UNINA9910150449303321
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Titolo	Advances in Metaheuristic Algorithms for Optimal Design of Structures // by A. Kaveh
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Descrizione fisica	1 online resource (XVI, 631 p. 34 illus., 20 illus. in color.)
Disciplina	519
Soggetti	Engineering mathematics Engineering - Data processing Mathematical optimization Mechanical engineering Mathematical and Computational Engineering Applications Optimization Mechanical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Particle Swarm Optimization -- Charged System Search Algorithm -- Magnetic Charged System Search -- Field of Forces Optimization -- Dolphin Echolocation Optimization -- Colliding Bodies Optimization -- Ray Optimization Algorithm -- Modified Big Bang-Big Crunch Algorithm -- Cuckoo Search Optimization -- Imperialist Competitive Algorithm -- Chaos Embedded Metaheuristic Algorithms -- Enhanced Colliding Bodies Optimization -- Global Sensitivity Analysis-Based Optimization Algorithm -- Tug of War Optimization -- Water Evaporation Optimization Algorithm -- Vibrating Particles System Algorithm -- Cyclical Parthenogenesis Optimization Algorithm -- Optimal Design of large-scale Frame Structures -- Multi-Objective Optimization of Truss Structures.
Sommario/riassunto	This book presents efficient metaheuristic algorithms for optimal design of structures. Many of these algorithms are developed by the author and his colleagues, consisting of Democratic Particle Swarm Optimization, Charged System Search, Magnetic Charged System

Search, Field of Forces Optimization, Dolphin Echolocation Optimization, Colliding Bodies Optimization, Ray Optimization. These are presented together with algorithms which were developed by other authors and have been successfully applied to various optimization problems. These consist of Particle Swarm Optimization, Big Bang-Big Crunch Algorithm, Cuckoo Search Optimization, Imperialist Competitive Algorithm, and Chaos Embedded Metaheuristic Algorithms. Finally a multi-objective optimization method is presented to solve large-scale structural problems based on the Charged System Search algorithm. The concepts and algorithms presented in this book are not only applicable to optimization of skeletal structures and finiteelement models, but can equally be utilized for optimal design of other systems such as hydraulic and electrical networks. In the second edition seven new chapters are added consisting of the new developments in the field of optimization. These chapters consist of the Enhanced Colliding Bodies Optimization, Global Sensitivity Analysis, Tug of War Optimization, Water Evaporation Optimization, Vibrating Particle System Optimization and Cyclical Parthenogenesis Optimization algorithms. A chapter is also devoted to optimal design of large scale structures.

2. Record Nr.	UNINA9910350188403321
Titolo	Rethinking Teacher Education for the 21st Century : Trends, Challenges and New Directions / / Wioleta Danilewicz, Alicja Korzeniecka-Bondar, Marta Kowalczuk-Waldziak, Graciennne Maria Louisa Veronica Lauwers
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Descrizione fisica	1 online resource (402)
Soggetti	teacher training professional development teachers' competencies for 21st century teaching and learning
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Cover -- Rethinking Teacher Education for the 21st Century. Trends, Challenges and New Directions -- Contents -- Acknowledgements -- The Editors -- Introduction -- Chapter 1. A Time for Reflection and Dialogue: How Do We Educate Teachers to Meet the Challenges of the 21st Century? (Marta Kowalczuk-Waldziak, Alicja Korzeniecka-Bondar, Wioleta Danilewicz, and Graciennne Lauwers) -- PART I Issues, Trends and Policies -- Chapter 2. Still Building a Better World? Research Reflections on Teacher Educationn and Identity (Amélia Lopes) -- Chapter 3. Reshaping Teacher Training to Get the Right Education System for a Knowledge Society (Graciennne Lauwers) -- Chapter 4. Let It Begin with Me: The Forging of a Professional Teacher Educator Self (Jennifer Yamin-Ali) -- Chapter 5. The Albanian Student-Teacher Perspective on Reasons for Choosing Teaching as a Career (Livia Nano, Nada Kallciu, and Nikoleta Mita) -- Chapter 6. Educational Agility (Neus Lorenzo Galés and Ray Gallon) -- Chapter 7. No Teacher without a Student...A Theoretical Analysis and Practical Implications of Educational Changes in the Era of Digital Natives (Katarzyna Skok) -- Chapter 8. Initial Teacher Education Policies: A Comparison between Italy and the UK. Recent Trends and Future Prospects (Francesco Magni) -- Chapter 9. Initial Teacher Training Challenges in a Context of

Educational Reform in Lithuania (Aušra Rutkien and Tetiana Ponomarenko) -- Chapter 10. The Teaching Profession in Albania and the Continuous Need for Improvement through Teacher Training Reforms (Heliona Miço) -- Chapter 11. Teaching Practice in the Albanian Context: Student-Teachers' Perceptions regarding their Experience in Teaching (Manjola Zaçellari (Lumani)) -- Chapter 12. Teachers' Workplace and Personal Wellness: Perspectives from South African Legislation and Policies (Erika Kruger and Lynette Jacobs). PART II Challenges and Tensions -- Chapter 13. An Exploration into the Value of Formative Assessment and the Barriers Associated with the Implementation of Formative Strategies (Frances Green) -- Chapter 14. The Importance of Physical Activity in the Normative Development of Mental Body Representations during Adolescence. Implications for Teacher Education (Beata Mirucka and Monika Kisielewska) -- Chapter 15. Children's Rights and Human Rights as a Key Condition for the Education of Transformative Teachers (Anna Babicka-Wirkus) -- Chapter 16. Are Innovations a Contribution to the Professional Development of Teachers? (Elbieta Jaszczyszyn and Iwona Lewkowicz) -- Chapter 17. Teachers' Team Learning in the Context of Creating Learning Schools: Implications for Teacher Education (Boena Towiska) -- Chapter 18. Components, Models and Operational Mechanisms of Teacher Collaboration (Katalin Tóth-Pjeckza, Nóra Rapos, and Judit Szivák) -- Chapter 19. Didactic Cooperation between Teachers and Students in Higher Education: Utopia or Real Opportunity? (Anna Krajewska) -- PART III Practices and Strategies -- Chapter 20. A COOL Lab for Teacher Education (Barbara Sabitzer, Heike Demarle-Meusel, and Christoph Painer) -- Chapter 21. Intercultural Learning for Pupils and Teachers: A Good Practice Case Study from an Erasmus+ Project (Elisa Briga) -- Chapter 22. A Restorative Approach to Address Cyber Bullying (Roelof Petrus Reyneke) -- Chapter 23. Motivational Strategies of Local and Foreign Students: Socio-Cultural Commonalities and Differences (Julia Kazakova) -- Chapter 24. The Importance of Emotional Intelligence in the Creative Activity of Students (Katarzyna Szorc and Beata Kunat) -- Chapter 25. Exploring Learning and Teaching Needs of Elderly People: A Comparative Study (Emilia Kramkowska, Wioleta Danilewicz, Tomasz Prymak, and Joo Pedro Constâncio). Index -- U4.

Sommario/riassunto

This book focuses on current trends, potential challenges and further developments of teacher education and professional development from a theoretical, empirical and practical point of view. It intends to provide valuable and fresh insights from research studies and examples of best practices from Europe and all over the world. The authors deal with the strengths and limitations of different models, strategies, approaches and policies related to teacher education and professional development in and for changing times (digitization, multiculturalism, pressure to perform).
