1. Record Nr. UNINA9910220157903321

Titolo	The global technology revolution, China, in-depth analyses : emerging technology opportunities for the Tianjin Binhai new area (TBNA) and the Tianjin technological development area (TEDA) / / Richard Silberglitt, Anny Wong ; with S. R. Bohandy ... [et al.]
Pubbl/distr/stampa	Santa Monica, CA, : Rand, 2009
ISBN	1-282-45124-3 9786612451249 0-8330-4868-6
Descrizione fisica	1 online resource (251 p.)
Collana	Technical report Rand : transportation, space, and technology
Altri autori (Persone)	SilberglittR. S (Richard S.) WongAnny <1968-> BohandyS. R
Disciplina	338/.0640951154
Soggetti	Research, Industrial - China - Tianjin Technological innovations - China - Tianjin Economic development - China - Tianjin Technology and state - China - Tianjin Binhai Xinqu (Tianjin, China)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Sponsored by the Tianjin Binhai New Area and the Tianjin Economic-Technological Development Area". "TR-649-TBNA/TEDA"--P. [4] of cover.
Nota di bibliografia	Includes bibliographical references (p. 173-213).
Nota di contenuto	Cover; Preface; Contents; Figures; Tables; Summary; Acknowledgments; Abbreviations; Chapter One - Introduction; TBNA: An Ambitious Vision for the Future; The Role of TEDA; Achieving the State Council's Vision for TBNA Through Foresight; Road Map of This Report; Part One - The Most-Promising Opportunities for TBNA and TEDA in Scienceand Engineering; Chapter Two - The Most-Promising Technology Applications for TBNA and TEDA for 2020; How We Selected the Most-Promising Technology Applications for TBNAand TEDA Chapter Three - The Foundation for TBNA's Growth into a Leading-Edge Science and Engineering CenterTBNA's Mission as a Special Pilot

Zone; China's National Needs and the Push for Cutting-Edge R&D and Innovation; National Drivers of and Barriers to Cutting-Edge R&D and Innovation; Capacity Available to TBNA and TEDA: R&D, Manufacturing, and S&TCommercialization; Part Two - Analysis of the Most-Promising Technology Applications for TBNA and TEDA; Chapter Four - Cheap Solar Energy; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects
Relevant Capacity Available to TBNA and TEDADrivers and Barriers; A Possible Path Forward; Chapter Five - Advanced Mobile-Communication and RFID Applications; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Relevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Chapter Six - Rapid Bioassays; Importance to TBNA and TEDA; Chapter Seven - Membranes, Filters, and Catalysts for Water Purification; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Capacity Available to TBNA and TEDA
Drivers and BarriersA Possible Path Forward; Chapter Eight - Molecular-Scale Drug Design, Development, and Delivery; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Relevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Chapter Nine - Electric and Hybrid Vehicles; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Relevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Chapter Ten - Green Manufacturing; Importance to TBNA and TEDA
Current Scientific and Market Status and Future ProspectsRelevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Part Three - Building for TBNA's Future; Chapter Eleven - Toward Making TEDA a State-of-the-Art Science and EngineeringCenter; Positioning TBNA and TEDA for the Future by Building on the Present; Integrating Specific Action Plans into an Overarching Strategic Plan; Appendix A - RAND Workshop on TBNA Science and Technology Vision,August 8-9, 2007; Appendix B - TEDA Meeting Agenda, December 5, 2007, and List of Participants
Appendix C - Green Chemistry Awards of National Governments

Sommario/riassunto

In 2007, the Tianjin Binhai New Area (TBNA) and one of its administrative zones, the Tianjin Economic-Technological Development Area (TEDA), in northeast China commissioned the RAND Corporation to perform a technology-foresight study to help them develop and implement a strategic vision and plan for economic growth through technological innovation. The principal objectives were to identify the most-promising emerging technology applications for TBNA and TEDA to pursue as part of their plan for growth, to analyze the drivers and barriers they would face in each case, and to recommend action pla

2. Record Nr. UNINA9910865238203321

Autore	Sevaux Marc
Titolo	Metaheuristics : 15th International Conference, MIC 2024, Lorient, France, June 4–7, 2024, Proceedings, Part I / / edited by Marc Sevaux, Alexandru-Liviu Olteanu, Eduardo G. Pardo, Angelo Sifaleras, Salma Makboul
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031629129 9783031629112
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (404 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14753
Altri autori (Persone)	OlteanuAlexandru-Liviu PardoEduardo G SifalerasAngelo MakboulSalma
Disciplina	40,151
Soggetti	Computer science Mathematics - Data processing Artificial intelligence Application software Theory of Computation Computational Mathematics and Numerical Analysis Artificial Intelligence Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Advances in Combinatorial Optimization -- Breakout Local Search for Heaviest Subgraph Problem -- A Biased Random Key Genetic Algorithm for solving the neighbor p center problem -- A Continuous GRASP Random Key Optimizer -- Adaptive Ant Colony Optimization Using Node Clustering with Simulated Annealing -- Job Shop Scheduling with robot synchronization for transport operations -- AI and metaheuristics for routing -- SIRO A deep learning based next generation optimizer for solving global optimization problems -- Investigation of the Benefit of Extracting Patterns from Local Optima to

solve a Bi objective VRPTW -- A Memetic Algorithm for Large Scale Real World Vehicle Routing Problems with Simultaneous Pickup and Delivery with Time Windows -- Tabu Search for Solving Covering Salesman Problem with Nodes and Segments -- GRASP with PATH RELINKING -- VNS with Path Relinking for the Profitable Close Enough Arc Routing Problem -- Meta heuristics for preference learning -- A simulated annealing algorithm to learn an RMP preference model -- New VRP and extensions -- Iterative Heuristic over Periods for the Inventory Routing Problem -- Combining Heuristics and Constraint Programming for the Parallel Drone Scheduling Vehicle Routing Problem with Collective Drones -- Operations Research for Health Care -- A Re optimization Heuristic for a Dial a Ride Problem in the Transportation of Patients -- Solving the Integrated Patient to Room and Nurse to Patient Assignment by Simulated Annealing -- Enhancing Real World Applicability in Home Healthcare A Metaheuristic Approach for Advanced Routing and Scheduling -- Solving the Two Stage Robust Elective Patient Surgery Planning under Uncertainties with Intensive Care Unit Beds Availability -- Extracting White box Knowledge from Word Embedding Modeling as an Optimization Problem -- A hybrid biased randomized heuristic for a home care problem with team scheme selection -- Optimization for forecasting -- Extended set covering for time series segmentation -- Quantum meta heuristic for Operations Research -- Indirect Flow Shop coding using rank application to Indirect QAOA -- Utilizing Graph Sparsification for Pre processing in Max Cut QUBO Solver -- Addressing Machine Unavailability in Job Shop Scheduling A Quantum Computing Approach -- Solving Edge weighted Maximum Clique problem with DCA warm start Quantum Approximate Optimization Algorithm -- Comparing Integer Encodings in QUBO for Quantum and Digital Annealing The Travelling Salesman Problem -- Solving Quadratic knapsack problem with biased quantum state Optimization Algorithm -- Quantum Optimization Approach for Feature Selection in Machine Learning -- International Conference on Variable Neighborhood Search (ICVNS) -- Advanced Algorithms for the Reclaimer Scheduling Problem with Sequence Dependent Setup Times and Availability Constraints -- An efficient algorithm for the T row facility layout problem -- Interpretability Adaptability and Scalability of Variable Neighborhood Search -- Exploring the integration of General Variable Neighborhood Search with exact procedures for the optimization of the Order Batching Problem -- VNS based matheuristic approach to Group Steiner Tree with problem specific node release strategy -- A Basic Variable Neighborhood Search for the planar Obnoxious Facility Location Problem -- Temporal Action Analysis in Metaheuristics A Machine Learning Approach -- A variable neighborhood search approach for the S labeling problem -- Improving Biased Random Key Genetic Algorithm with Variable Neighborhood Search for the Weighted Total Domination Problem -- Optimization of fairness and accuracy on Logistic Regression models -- A Variable Formulation Search Approach for Three Graph Layout Problems.

Sommario/riassunto

This volume constitutes the refereed proceedings of Metaheuristics on 15th International Conference, MIC 2024, held in Lorient, France, during June 4–7, 2024. The 36 full papers presented together with 34 short papers were carefully reviewed and selected from 127 submissions. The conference focuses on artificial intelligence, combinatorial optimization, computer science, graph theory, evolutionary algorithms, genetic algorithms, simulated annealing, optimization, optimization problems.