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Flowshop Scheduling Problems On Makespan Criterion By Heuristic Models LAP Lambert Academic Publishing **Global competition has engendered a trend among companies towards continuously improving operations so that they can provide customers the right products in the right quantities at the right times. In modern manufacturing, the trend is the development of Computer Integrated Manufacturing, CIM technologies which is a computerized integration of manufacturing activities (Design, Planning, Scheduling and Control) produces right products at right time to react quickly to the global competitive market demands. The productivity of CIM is highly depending upon the scheduling of Flexible Manufacturing System, FMS. Shorting the make span leads to decreasing machines idle time which results improvement in CIM productivity. Conventional methods of solving scheduling problems based on priority rules still result schedules, sometimes, with significant idle times. To optimize these, this book model the problem of a flowshop scheduling with the objective of minimizing the make span. The work proposed here deal with the Production Planning Problem, PPP of a FMS. PG-Engineering students and Engineers will find this book beneficial as a source material to solve Production Planning Problem of a FMS. Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts** IGI Global **Business industries depend on advanced models and tools that provide an optimal and objective decision-making process, ultimately guaranteeing improved competitiveness, reducing risk, and eliminating uncertainty. Thanks in part to the digital era of the modern world, reducing these conditions has**

become much more manageable. Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts provides research exploring the theoretical and practical aspects of effective decision making based not only on mathematical techniques, but also on those technological tools that are available nowadays in the Fourth Industrial Revolution. Featuring coverage on a broad range of topics such as industrial informatics, knowledge management, and production planning, this book is ideally designed for decision makers, researchers, engineers, academicians, and students. Evolutionary Computation in Combinatorial Optimization 10th European Conference, EvoCOP 2010, Istanbul, Turkey, April 7-9, 2010, Proceedings Springer Science & Business Media This book constitutes the refereed proceedings of the 10th European Conference on Evolutionary Computation in Combinatorial Optimization, EvoCOP 2010, held in Instanbul, Turkey, in April 2010. The 24 revised full papers presented were carefully reviewed an selected from 69 submissions. The papers present the latest research and discuss current developments and applications in metaheuristics - a paradigm to effectively solve difficult combinatorial optimization problems appearing in various industrial, economical, and scientific domains. Prominent examples of metaheuristics are evolutionary algorithms, simulated annealing, tabu search, scatter search, memetic algorithms, variable neighborhood search, iterated local search, greedy radomized adaptive search procedures, estimation of distribution algorithms and ant colony opitmization. Nature-Inspired Computation in Navigation and Routing Problems Algorithms, Methods and Applications Springer Nature This book discusses all the major nature-inspired algorithms with a focus on their application in the context of solving navigation and routing problems. It also reviews the approximation methods and recent nature-inspired approaches for practical navigation, and compares these methods with traditional algorithms to validate the approach for the case studies discussed. Further, it examines the design of alternative solutions using nature-inspired techniques, and explores the challenges of navigation and routing problems and nature-inspired metaheuristic approaches. ENTERprise Information Systems International Conference, CENTERIS 2011, Vilamoura, Algarve, Portugal, October 5-7, 2011. Proceedings, Part II Springer This three-volume-set (CCIS 219, CCIS 220, and CCIS 221) constitutes the refereed proceedings of the International Conference on ENTERprise Information Systems, CENTERIS 2011, held in Vilamoura, Portugal, in September 2011. The approx. 120 revised full papers presented in the three volumes were carefully reviewed and selected from 180 submissions. The papers are organized in topical sections on knowledge society, EIS adoption and design, EIS implementation and impact, EIS applications, social aspects and IS in education, IT/IS management, telemedicine and imaging technologies, healthcare information management, medical records and business processes, decision support systems and business intelligence in health and social care contexts, architectures and emerging technologies in

healthcare organizations, as well as m-health. Parallel Problem Solving from Nature, PPSN XI 11th International Conference, Krakov, Poland, September 11-15, 2010, Proceedings Springer Science & Business Media **This book constitutes the refereed proceedings of the 11th International Conference on Parallel Problem Solving from Nature - PPSN XI, held in Kraków, Poland, in September 2010. The 131 revised full papers were carefully reviewed and selected from 232 submissions. The conference covers a wide range of topics, from evolutionary computation to swarm intelligence, from bio-inspired computing to real world applications. Machine learning and mathematical games supported by evolutionary algorithms as well as memetic, agent-oriented systems are also represented. Modelling, Computation and Optimization in Information Systems and Management Sciences Second International Conference MCO 2008, Metz, France - Luxembourg, September 8-10, 2008, Proceedings** Springer Science & Business Media **Constitutes the refereed proceedings of the Second International Conference MCO 2008, Metz, France, September 2008. This title organizes the papers in topical sections on optimization and decision making; data mining theory, systems and applications; computer vision and image processing; and computer communications and networks. Computational Intelligence in Flow Shop and Job Shop Scheduling** Springer **For over fifty years now, the famous problem of flow shop and job shop scheduling has been receiving the attention of researchers in operations research, engineering, and computer science. Over the past several years, there has been a spurt of interest in computational intelligence heuristics and metaheuristics for solving this problem. This book seeks to present a study of the state of the art in this field and also directions for future research. Principles of Sequencing and Scheduling** John Wiley & Sons **An updated edition of the text that explores the core topics in scheduling theory The second edition of Principles of Sequencing and Scheduling has been revised and updated to provide comprehensive coverage of sequencing and scheduling topics as well as emerging developments in the field. The text offers balanced coverage of deterministic models and stochastic models and includes new developments in safe scheduling and project scheduling, including coverage of project analytics. These new topics help bridge the gap between classical scheduling and actual practice. The authors—noted experts in the field—present a coherent and detailed introduction to the basic models, problems, and methods of scheduling theory. This book offers an introduction and overview of sequencing and scheduling and covers such topics as single-machine and multi-machine models, deterministic and stochastic problem formulations, optimization and heuristic solution approaches, and generic and specialized software methods. This new edition adds coverage on topics of recent interest in shop scheduling and project scheduling. This important resource: Offers comprehensive coverage of deterministic models as well as recent approaches and developments for stochastic models Emphasizes the**

application of generic optimization software to basic sequencing problems and the use of spreadsheet-based optimization methods Includes updated coverage on safe scheduling, lognormal modeling, and job selection Provides basic coverage of robust scheduling as contrasted with safe scheduling Adds a new chapter on project analytics, which supports the PERT21 framework for project scheduling in a stochastic environment. Extends the coverage of PERT 21 to include hierarchical scheduling Provides end-of-chapter references and access to advanced Research Notes, to aid readers in the further exploration of advanced topics Written for upper-undergraduate and graduate level courses covering such topics as scheduling theory and applications, project scheduling, and operations scheduling, the second edition of Principles of Sequencing and Scheduling is a resource that covers scheduling techniques and contains the most current research and emerging topics. Heuristics for Optimization and Learning Springer Nature This book is a new contribution aiming to give some last research findings in the field of optimization and computing. This work is in the same field target than our two previous books published: "Recent Developments in Metaheuristics" and "Metaheuristics for Production Systems", books in Springer Series in Operations Research/Computer Science Interfaces. The challenge with this work is to gather the main contribution in three fields, optimization technique for production decision, general development for optimization and computing method and wider spread applications. The number of researches dealing with decision maker tool and optimization method grows very quickly these last years and in a large number of fields. We may be able to read nice and worthy works from research developed in chemical, mechanical, computing, automotive and many other fields. The Series of International Conferences on Applied Operational Research (ICAOR) Book of Abstracts (2008-2017) ORLAB Analytics Operational Research is an important scientific discipline with many new theoretical developments and practical applications. This issue of Lecture Notes in Management Science (LNMS), Volume 10, gathers the abstracts of contributions presented at the series of International Conferences on Applied Operational Research (ICAOR) from 2008 to 2017. Manufacturing Scheduling Systems An Integrated View on Models, Methods and Tools Springer Science & Business Media The book is devoted to the problem of manufacturing scheduling, which is the efficient allocation of jobs (orders) over machines (resources) in a manufacturing facility. It offers a comprehensive and integrated perspective on the different aspects required to design and implement systems to efficiently and effectively support manufacturing scheduling decisions. Obtaining economic and reliable schedules constitutes the core of excellence in customer service and efficiency in manufacturing operations. Therefore, scheduling forms an area of vital importance for competition in manufacturing companies. However, only a fraction of scheduling research has been translated into practice, due to several reasons. First, the inherent complexity of scheduling has led to an excessively fragmented

field in which different sub problems and issues are treated in an independent manner as goals themselves, therefore lacking a unifying view of the scheduling problem. Furthermore, mathematical brilliance and elegance has sometimes taken preference over practical, general purpose, hands-on approaches when dealing with these problems. Moreover, the paucity of research on implementation issues in scheduling has restricted translation of valuable research insights into industry. "Manufacturing Scheduling Systems: An Integrated View on Models, Methods and Tools" presents the different elements constituting a scheduling system, along with an analysis the manufacturing context in which the scheduling system is to be developed. Examples and case studies from real implementations of scheduling systems are presented in order to drive the presentation of the theoretical insights. The book is intended for an ample readership including industrial engineering/operations post-graduate students and researchers, business managers, and readers seeking an introduction to the field. Encyclopedia of Optimization Springer Science & Business Media The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research, the richness of ideas, and the breadth of applications that has come from this field. The second edition builds on the success of the former edition with more than 150 completely new entries, designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced. Particularly heavy attention resulted in health science and transportation, with entries such as "Algorithms for Genomics", "Optimization and Radiotherapy Treatment Design", and "Crew Scheduling". Recent Progress in Computational Sciences and Engineering (2 vols) CRC Press This volume brings together selected contributed papers presented at the International Conference of Computational Methods in Science and Engineering (ICCMSE 2006), held in Chania, Greece, October 2006. The conference aims to bring together computational scientists from several disciplines in order to share methods and ideas. The ICCMSE is unique in its kind. It regroups original contributions from all fields of the traditional Sciences, Mathematics, Physics, Chemistry, Biology, Medicine and all branches of Engineering. It would be perhaps more appropriate to define the ICCMSE as a conference on computational science and its applications to science and engineering. Topics of general interest are: Computational Mathematics, Theoretical Physics and Theoretical Chemistry. Computational Engineering and Mechanics, Computational Biology and Medicine, Computational Geosciences and Meteorology, Computational Economics and Finance, Scientific Computation. High Performance Computing, Parallel and Distributed Computing, Visualization, Problem Solving Environments, Numerical Algorithms, Modelling and Simulation of Complex System, Web-based Simulation and Computing, Grid-based Simulation and Computing, Fuzzy Logic, Hybrid Computational Methods, Data Mining, Information Retrieval and Virtual Reality, Reliable Computing, Image Processing, Computational Science and Education etc.

More than 800 extended abstracts have been submitted for consideration for presentation in ICCMSE 2005. From these 500 have been selected after international peer review by at least two independent reviewers. Creativity Models for Innovation in Management and Engineering <u>IGI Global</u> **In todays' competitive environments, only the most creative and innovative organizations are able to survive. These dynamic organizations continuously establish and develop strategies that leverage their creativity and their innovative abilities to attain long-term success and maintain their competitive edge. Further study on the uses and benefits of creative management in the business sector is required to ensure businesses not only survive but expand and flourish. Creativity Models for Innovation in Management and Engineering introduces innovative research on creativity and innovation in the management and engineering fields and considers the importance of having resilient and inventive leaders in the competitive business world. Covering a wide range of topics such as business performance, knowledge management, entrepreneurship, and agribusiness, this reference work is ideal for engineers, managers, business owners, policymakers, academicians, researchers, practitioners, scholars, researchers, instructors, and students. Handbook of Research on Artificial Intelligence Techniques and Algorithms** <u>IGI Global</u> **For decades, optimization methods such as Fuzzy Logic, Artificial Neural Networks, Firefly, Simulated annealing, and Tabu search, have been capable of handling and tackling a wide range of real-world application problems in society and nature. Analysts have turned to these problem-solving techniques in the event during natural disasters and chaotic systems research. The Handbook of Research on Artificial Intelligence Techniques and Algorithms highlights the cutting edge developments in this promising research area. This premier reference work applies Meta-heuristics Optimization (MO) Techniques to real world problems in a variety of fields including business, logistics, computer science, engineering, and government. This work is particularly relevant to researchers, scientists, decision-makers, managers, and practitioners. Integrated Uncertainty in Knowledge Modelling and Decision Making** <u>Springer Nature</u> **Computer Information Systems and Industrial Management 20th International Conference, CISIM 2021, Ełk, Poland, September 24–26, 2021, Proceedings** <u>Springer Nature</u> **This book constitutes the proceedings of the 20th International Conference on Computer Information Systems and Industrial Management Applications, CISIM 2021, held in Ełk, Poland, September 24–26, 2021. The 38 papers presented together with 1 invited speech and 3 abstracts of keynotes were carefully reviewed and selected from 69 submissions. The main topics covered by the chapters in this book are mobile and pervasive computing, machine learning, high performance computing, image processing, industrial management. Additionally, the reader will find interesting papers on computer information systems, biometrics, security systems, and sensor network service. The contributions are organized in the following topical sections: biometrics**

and pattern recognition applications; computer information systems and security; industrial management and other applications; machine learning and artificial neural networks; modelling and optimization, and others.Chapter 24 "A first step towards automated species recognition from camera trap images of mammals using AI in a European temperate forest" is published open access under a CC BY license (Creative Commons Attribution 4.0 International License). Healthcare Administration: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global As information systems become ever more pervasive in an increasing number of fields and professions, workers in healthcare and medicine must take into consideration new advances in technologies and infrastructure that will better enable them to treat their patients and serve their communities. Healthcare Administration: Concepts, Methodologies, Tools, and Applications brings together recent research and case studies in the medical field to explore topics such as hospital management, delivery of patient care, and telemedicine, among others. With a focus on some of the most groundbreaking new developments as well as future trends and critical concerns, this three-volume reference source will be a significant tool for medical practitioners, hospital managers, IT administrators, and others actively engaged in the healthcare field. A Neutrosophic Number-Based Memetic Algorithm for the Integrated Process Planning and Scheduling Problem With Uncertain Processing Times Infinite Study Process planning and scheduling are two crucial components in a flexible manufacturing system. Lots of novel meta-heuristics have been applied to the integrated process planning and scheduling (IPPS) problem for an efficient utilization of manufacturing resources; nevertheless, the tricky part in real life stems from the uncertainty in processing times. Applied Operational Research 2nd International Conference, ICAOR 2010, Turku, Finland, August 25-27, 2010, Proceedings ORLAB Analytics These proceedings gather contributions presented at the 2nd International Conference on Applied Operational Research (ICAOR 2010) in Turku, Finland, August 25-27, 2010, published in the series Lecture Notes in Management Science (LNMS). The conference covers all aspects of Operational Research and Management Science (OR/MS) with a particular emphasis on applications. Metaheuristics for Scheduling in Industrial and Manufacturing Applications Springer During the past decades scheduling has been among the most studied op- mization problemsanditisstillanactiveareaofresearch!Schedulingappears in many areas of science, engineering and industry and takes di?erent forms depending on the restrictions and optimization criteria of the operating en-ronments [8]. For instance, in optimization and computer science, scheduling has been de?ned as "the allocation of tasks to resources over time in order to achieve optimality in one or more objective criteria in an e?cient way" and in production as "production schedule, i. e. , the planning of the production or the sequence of operations according to which jobs

pass through machines and is optimal with respect to certain optimization criteria. " Although there is a standardized form of stating any scheduling problem, namely "e?cient allocation ofn jobs onm machines –which can process no more than one activity at a time– with the objective to optimize some - jective function of the job completion times", scheduling is in fact a family of problems. Indeed, several parameters intervene in the problem de?nition: (a) job characteristics (preemptive or not, precedence constraints, release dates, etc.); (b) resource environment (single vs. parallel machines, un- lated machines, identical or uniform machines, etc.); (c) optimization criteria (minimize total tardiness, the number of late jobs, makespan, ?owtime, etc. ; maximize resource utilization, etc.); and, (d) scheduling environment (static vs. dynamic,intheformerthenumberofjobstobeconsideredandtheirready times are available while in the later the number of jobs and their charact- istics change over time). Cybernetics Perspectives in Systems Proceedings of 11th Computer Science On-line Conference 2022, Vol. 3 Springer Nature This book contains the refereed proceedings of the Cybernetics Perspectives in Systems session of the 11th Computer Science On-line Conference 2022 (CSOC 2022), which was held in April 2022 online. Papers on modern cybernetics and informatics in the context of networks and systems are an important component of current research issues. This volume contains an overview of recent method, algorithms and designs. Multicriteria Scheduling Theory, Models and Algorithms Springer Science & Business Media Scheduling and multicriteria optimisation theory have been subject, separately, to numerous studies. Since the last twenty years, multicriteria scheduling problems have been subject to a growing interest. However, a gap between multicriteria scheduling approaches and multicriteria optimisation field exits. This book is an attempt to collect the elementary of multicriteria optimisation theory and the basic models and algorithms of multicriteria scheduling. It is composed of numerous illustrations, algorithms and examples which may help the reader in understanding the presented concepts. This book covers general concepts such as Pareto optimality, complexity theory, and general method for multicriteria optimisation, as well as dedicated scheduling problems and algorithms: just-in-time scheduling, flexibility and robustness, single machine problems, parallel machine problems, shop problems, etc. The second edition contains revisions and new material. Deterministic and Stochastic Scheduling Proceedings of the NATO Advanced Study and Research Institute on Theoretical Approaches to Scheduling Problems held in Durham, England, July 6–17, 1981 Springer Science & Business Media This volume contains the proceedings of an Advanced Study and Re search Institute on Theoretical Approaches to Scheduling Problems. The Institute was held in Durham, England, from July 6 to July 17, 1981. It was attended by 91 participants from fifteen different countries. The format of the Institute was somewhat unusual. The first eight of the ten available days were devoted to an Advanced Study Insti tute, with lectures on the state of

the art with respect to deter ministic and stochastic scheduling models and on the interface between these two approaches. The last two days were occupied by an Advanced Research Institute, where recent results and promising directions for future research, especially in the interface area, were discussed. Altogether, 37 lectures were delivered by 24 lecturers. They have all contributed to these proceedings, the first part of which deals with the Advanced Study Institute and the second part of which covers the Advanced Research Institute. Each part is preceded by an introduction, written by the editors. While confessing to a natural bias as organizers, we believe that the Institute has been a rewarding and enjoyable event for everyone concerned. We are very grateful to all those who have contributed to its realization. Metaheuristics for Multiobjective Optimisation Springer Science & Business Media The success of metaheuristics on hard single-objective optimization problems is well recognized today. However, many real-life problems require taking into account several conflicting points of view corresponding to multiple objectives. The use of metaheuristic optimization techniques for multi-objective problems is the subject of this volume. The book includes selected surveys, tutorials and state-of-the-art research papers in this field, which were first presented at a free workshop jointly organized by the French working group on Multi-objective Mathematical Programming (PM2O) and the EURO working group on Metaheuristics in December 2002. It is the first book which considers both various metaheuristics and various kind of problems (e.g. combinatorial problems, real situations, non-linear problems) applied to multiple objective optimization. Metaheuristics used include: genetic algorithms, ant colony optimization, simulated annealing, scatter search, etc. Problems concern timetabling, vehicle routing, and more. Methodological aspects, such as quality evaluation, are also covered. Proceedings of 2017 Chinese Intelligent Systems Conference Volume II Springer This book presents selected research papers from CISC'17, held in MudanJiang, China. The topics covered include Multi-agent system, Evolutionary Computation, Artificial Intelligence, Complex systems, Computation intelligence and soft computing, Intelligent control, Advanced control technology, Robotics and applications, Intelligent information processing, Iterative learning control, Machine Learning, and etc. Engineers and researchers from academia, industry, and government can gain valuable insights into solutions combining ideas from multiple disciplines in the field of intelligent systems. Industrial Applications of Holonic and Multi-Agent Systems 8th International Conference, HoloMAS 2017, Lyon, France, August 28–30, 2017, Proceedings Springer This book constitutes the refereed proceedings of the 8th International Conference on Industrial Applications of Holonic and Multi-Agent Systems, HoloMAS 2017, held in Lyon, France, in August 2017. The 19 revised full papers presented were carefully reviewed and selected from 27 submissions. The papers are organized in the following topical sections: scheduling; knowledge engineering; modeling, simulation and reconfiguration; energy

systems;and MAS in various areas. Advances in Manufacturing Technology Select Proceedings of ICAMT 2018 Springer This volume comprises select papers presented at the International Conference on Advances in Manufacturing Technology (ICAMT 2018). It includes contributions from different researchers and practitioners working in the field of advanced manufacturing technology. This book covers diverse topics of contemporary manufacturing technology including material processes, machine tools, cutting tools, robotics and automation, manufacturing systems, optimization technologies, 3D scanning and re-engineering, and 3D printing. Computer applications in design, analysis, and simulation tools for solving manufacturing problems at various levels starting from material designs to complex manufacturing systems are also discussed. This book will be useful for students, researchers, and practitioners working in the field of manufacturing technology. Learning and Intelligent Optimization 11th International Conference, LION 11, Nizhny Novgorod, Russia, June 19-21, 2017, Revised Selected Papers Springer This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Conference on Learning and Intelligent Optimization, LION 11, held in Nizhny,Novgorod, Russia, in June 2017. The 20 full papers (among these one GENOPT paper) and 15 short papers presented have been carefully reviewed and selected from 73 submissions. The papers explore the advanced research developments in such interconnected fields as mathematical programming, global optimization, machine learning, and artificial intelligence. Special focus is given to advanced ideas, technologies, methods, and applications in optimization and machine learning. Enterprise Information Systems Design, Implementation and Management Organizational Applications IGI Global "This book investigates the creation and implementation of enterprise information systems, covering a wide array of topics such as flow-shop scheduling, information systems outsourcing, ERP systems utilization, Dietz transaction methodology, and advanced planning systems"--Provided by publisher. Proceedings of the XVIII International symposium Symorg 2022 (BOOK OF ABSTRACTS) Sustainable Business Management and Digital Transformation: Challenges and Opportunities in the Post-Covid Era FON With 140 contributions by authors from 19 different countries, XVIII International Symposium of Organizational Sciences – SymOrg 2022 successfully sets the high level for future conferences. The topic of SymOrg 2020, "Sustainable Business Management and Digital Transformation: Challenges and Opportunities in the Post-COVID Era", attracted researchers from different institutions, both in Serbia and abroad. This year, more than 300 scholars and practitioners authored and co-authored scientific and research articles that had been accepted for publication in the Book of Abstracts. All the contributions to the Book of Abstracts are classified into the following 13 key topics: ⬜ Blockchain Technology in Business and Information Systems ⬜ Business Analytics ⬜ Creativity, Innovation and Sustainable Management ⬜ Digital Operations and Logistics

Management ⬚ Digital Transformation of Financial Industry ⬚ Digital Transformation of Public Administration ⬚ E-Business Ecosystems ⬚ Evidence-Based Public Policy Making in the Post-COVID Environment ⬚ LEAN Business Systems – Structures, Processes and Models ⬚ Managing Digital Transformation Projects under Discontinuity ⬚ Managing Human Resources in the Post-COVID Era ⬚ Rethinking Marketing and Communication in the Post-COVID Era ⬚ Quality Management and Standardization in Digital Transformation Era. The participation of numerous domestic and international authors and the diversity of topics justify our efforts to organize the Symposium. As SymOrg is traditionally at the intersection of academy and business, we believe that this year's meeting will bring about many in-depth discussions, contribute to prospective partnerships, and build stronger business and academic networks. We also believe that meeting will contribute to the exchange of knowledge, research results and experience among industry experts, research institutions and faculties, which all share a common interest in contemporary organizational sciences. We are very grateful to our distinguished keynote and plenary speakers: Ana Draskovic, Aleksander Aristovnik, Manuel Mazzara, Basant Agarwa and Priyanka Harjule. Also, special thanks to moderators for organizing the panels and workshops in the fields of higher education, business, supply chain, doctoral research studies and student engagement and sustainability. The Faculty of Organizational Sciences would like to express its gratitude to the Ministry of Education, Science and Technological Development and all the partners and individuals who have supported and contributed to the organization of the Symposium. We are particularly grateful to the contributors and reviewers who made this issue possible. But above all, we are especially thankful to the authors and presenters for making SymOrg 2022 a success! Belgrade, June 6, 2022 Marko Mihić, Ph.D. Sandra Jednak, Ph.D. Gordana Savić, Ph.D. Artificial Intelligence Perspectives in Intelligent Systems Proceedings of the 5th Computer Science On-line Conference 2016 (CSOC2016), Vol 1 Springer This volume is based on the research papers presented in the 5th Computer Science On-line Conference. The volume Artificial Intelligence Perspectives in Intelligent Systems presents modern trends and methods to real-world problems, and in particular, exploratory research that describes novel approaches in the field of artificial intelligence. New algorithms in a variety of fields are also presented. The Computer Science On-line Conference (CSOC 2016) is intended to provide an international forum for discussions on the latest research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering. Intelligent Computing for Sustainable Energy and Environment Second International Conference, ICSEE 2012, Shanghai, China, September 12-13, 2012. Revised Selected Papers Springer This book constitutes the refereed proceedings of the Second International

Conference on Intelligent Computing for Sustainable Energy and Environment, ICSEE 2012, held in Shanghai, China, in September 2012. The 60 full papers presented were carefully reviewed and selected from numerous submissions and present theories and methodologies as well as the emerging applications of intelligent computing in sustainable energy and environment. Intelligent and Fuzzy Systems Digital Acceleration and The New Normal - Proceedings of the INFUS 2022 Conference, Volume 1 Springer Nature This book presents recent research in intelligent and fuzzy techniques on digital transformation and the new normal, the state to which economies, societies, etc. settle following a crisis bringing us to a new environment. Digital transformation and the new normal-appearing in many areas such as digital economy, digital finance, digital government, digital health, and digital education are the main scope of this book. The readers can benefit from this book for preparing for a digital "new normal" and maintaining a leadership position among competitors in both manufacturing and service companies. Digitizing an industrial company is a challenging process, which involves rethinking established structures, processes, and steering mechanisms presented in this book. The intended readers are intelligent and fuzzy systems researchers, lecturers, M.Sc., and Ph.D. students studying digital transformation and new normal. The book covers fuzzy logic theory and applications, heuristics, and metaheuristics from optimization to machine learning, from quality management to risk management, making the book an excellent source for researchers. Heuristic Scheduling Systems With Applications to Production Systems and Project Management John Wiley & Sons Reflects exact and heuristic methods of scheduling techniques suitable for creating customized sequencing and scheduling systems for flexible manufacturing, project management, group and cellular manufacturing operations. Summarizes complex computational studies demonstrating how they work in practice. Contains new theories and techniques developed by the author. Includes a software disk to reinforce and practice the methods described. Hybrid Intelligent Systems 18th International Conference on Hybrid Intelligent Systems (HIS 2018) Held in Porto, Portugal, December 13-15, 2018 Springer This book highlights recent research on Hybrid Intelligent Systems and their various practical applications. It presents 56 selected papers from the 18th International Conference on Hybrid Intelligent Systems (HIS 2018), which was held at the Instituto Superior de Engenharia do Porto (ISEP), Porto, Portugal from December 13 to 15, 2018. A premier conference in the field of Artificial Intelligence, HIS 2018 brought together researchers, engineers and practitioners whose work involves intelligent systems and their applications in industry. Including contributions by authors from over 30 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering. Exact and Heuristic Scheduling Algorithms MDPI This edited book presents new results in the area of the development of exact and heuristic scheduling algorithms. It contains eight articles accepted for

publication for a Special Issue in the journal Algorithms. The book presents new algorithms, e.g., for flow shop, job shop, and parallel machine scheduling problems. The particular articles address subjects such as a heuristic for the routing and scheduling problem with time windows, applied to the automotive industry in Mexico, a heuristic for the blocking job shop problem with tardiness minimization based on new neighborhood structures, fast heuristics for the Euclidean traveling salesman problem or a new mathematical model for the period-aggregated resource leveling problem with variable job duration, and several others. Performance Evaluation Models for Distributed Service Networks Springer Nature **This book presents novel approaches to formulate, analyze, and solve problems in the area of distributed service networks, notably based on AI-related methods (parallel/cloud computing, declarative modeling, fuzzy methods). Distributed service networks are an important area of research and applications. The methods presented are meant to integrate both emerging and existing concepts and approaches for different types of production flows through synchronizations. An integration of logistics services (e.g., supply chains and projects portfolios), public and multimodal transport, traffic flow congestion management in ad hoc networks, design of high-performance cloud data centers, and milk-run distribution networks are shown as illustrations for the methods proposed. The book is of interest to researchers and practitioners in computer science, operations management, production control, and related fields. Scientia Iranica**