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Chemical Process Performance Evaluation-Ali Cinar 2007-01-11 The latest advances in process monitoring, data analysis, and control systems are increasingly useful for maintaining the safety, flexibility, and environmental compliance of industrial manufacturing operations. Focusing on continuous, multivariate processes, Chemical Process Performance Evaluation introduces statistical methods and modeling techniques for process monitoring, performance evaluation, and fault diagnosis. This book introduces practical multivariate statistical methods and empirical modeling development techniques, such as principal components regression, partial least squares regression, input-output modeling, state-space modeling, and modeling process signals for trend analysis. Then the authors examine fault diagnosis techniques based on episodes, hidden Markov models, contribution plots, discriminant analysis, and support vector machines. They address controller process evaluation and sensor failure detection, including methods for differentiating between sensor failures and process upset. The book concludes with an extensive discussion on the use of data analysis techniques for the special case of web and sheet processes. Case studies illustrate the implementation of methods presented throughout the book. Emphasizing the balance between practice and theory, Chemical Process Performance Evaluation is an excellent tool for comparing alternative techniques for process monitoring, signal modeling, and process diagnosis. The unique integration of process and controller monitoring and fault diagnosis facilitates the practical implementation of unified and automated monitoring and diagnosis technologies.
Qualitative Research & Evaluation Methods-Michael Quinn Patton 2002 The book that has been a resource and training tool for countless applied researchers, evaluators, and graduate students has been completely revised with hundreds of new examples and stories illuminating all aspects of qualitative inquiry. Patton has created the most comprehensive, systematic and up-to-date review of qualitative methods available. Patton has retained and expanded upon the Exhibits that highlight and summarize major issues and guidelines, the summative sections, tables, and figures as well as the sage advice of the Sufi Master, Halcolm. This revision will help readers integrate and make sense of the great volume of qualitative works published in the past decade.
Evaluation Technologies for Food Quality-Jian Zhong 2019-04-16 Evaluation Technologies for Food Quality summarizes food quality evaluation technologies, which include sensory evaluation techniques and chemical and physical analysis. In particular, the book introduces many novel micro and nano evaluation techniques, such as atomic force microscopy, scanning electron microscopy, and other nanomaterial-based methods. All topics cover basic principles, procedures, advantages, limitations, recent technology development, and application progress in different types of foods. This book is a valuable resource for scientists in the field of food science, engineering, and professionals in the food industry, as well as for undergraduate and postgraduate students studying food quality evaluation technology. Explains basic principles, procedures, advantages, limitations, and current applications of recent food quality evaluation technologies Provides guidance on the understanding and application of food quality evaluation technology in the field of food research and food industry Introduces many novel micro/nano evaluation techniques, such as atomic force and scanning electron microscopies and other nanomaterial-based methods
Empirical Evaluation Methods in Computer Vision-Henrik I. Christensen 2002 This book provides comprehensive coverage of methods for the empirical evaluation of computer vision techniques. The practical use of computer vision requires empirical evaluation to ensure that the overall system has a guaranteed performance. The book contains articles that cover the design of experiments for evaluation, range image segmentation, the evaluation of face recognition and diffusion methods, image matching using correlation methods, and the performance of medical image processing algorithms.
Advances in Signal Processing for Nondestructive Evaluation of Materials-Xavier Maldague 1994 Non-Destructive Evaluation (NDE) is now playing an increasing role in the modern global economy, in security-sensitive industries, for instance. The complexity of the inspection task and either large or limited lot runs now require more operator-assisted or fully automated signal processing. This book deals with both fields of expertise: NDE and signal processing.
Food Process Design and Evaluation-Rakesh K. Singh 1995-05-24 This new book provides detailed illustrated reports on important recent advances in processing of foods including separation, mixing, preservation, and extrusion. The authors are specialists in food processing from North America and Europe. The reports were originally presented at the Conference of Food Engineering sponsored by the American Institute of Chemical Engineers in 1992 and 1993; they were selected, rewritten and updated for this book.
Information Technology Evaluation Methods and Management-Wim Van Grembergen 2001-01-01 The evaluation of IT and its business value are the subject of many academic and business discussions. Investments in IT are growing extensively, and business managers worry about the fact that the benefits might not be as high as expected. This phenomenon is often called the IT investment paradox or the IT Black Hole: large sums are invested in IT that seem to be swallowed by a large black hole without rendering many returns. How to measure the benefits of IT is the concern of this book titled Information Technology Evaluation Methods and Management. The different IT evaluation approaches and methods are discussed and illustrated with cases: traditional financial evaluations such as the return on investment, information economics and the recently introduced IT Balanced Scorecard. The latter approach is proposed as an ideal mechanism to support the IT/business alignment process and its related IT governance process. Among some of the topics included in this book are: software measurement; ERP project evaluation; strategic electronic commerce evaluation.
Chemical Process Performance Evaluation-Ali Cinar 2007-01-11 The latest advances in process monitoring, data analysis, and control systems are increasingly useful for maintaining the safety, flexibility, and environmental compliance of industrial manufacturing operations. Focusing on continuous, multivariate processes, Chemical Process Performance Evaluation introduces statistical methods and modeling techniques for process monitoring, performance evaluation, and fault diagnosis. This book introduces practical multivariate statistical methods and empirical modeling development techniques, such as principal components regression, partial least squares regression, input-output modeling, state-space modeling, and modeling process signals for trend analysis. Then the authors examine fault diagnosis techniques based on episodes, hidden Markov models, contribution plots, discriminant analysis, and support vector machines. They address controller process evaluation and sensor failure detection, including methods for differentiating between sensor failures and process upset. The book concludes with an extensive discussion on the use of data analysis techniques for the special case of web and sheet processes. Case studies illustrate the implementation of methods presented throughout the book. Emphasizing the balance between practice and theory, Chemical Process Performance Evaluation is an excellent tool for comparing alternative techniques for process monitoring, signal modeling, and process diagnosis. The unique integration of process and controller monitoring and fault diagnosis facilitates the practical implementation of unified and automated monitoring and diagnosis technologies.
Evaluation in Environmental Planning-Donald M. McAllister 1982 Evaluation—the process of obtaining, organizing, and weighing information on the consequences of alternatives—lies at the heart of the planning process. This book points out that no single theory or discipline can encompass the entire scope of evaluation, nor is there clearly any superior method of evaluation—each has its advantages and disadvantages. Evaluation and Environmental Planning takes a broad look at this value-laden and subjective realm, viewing it as a part of the larger democratic process. It addresses such issues as quantification, the treatment of equity and intangibles, the representation of future generations, technocratic planning, citizen participation, analytic as opposed to holistic assessments, and grand index formulations of social welfare, among others. The book describes and criticizes eight leading methodologies, providing many ideas for their improvement. Guidelines for conducting evaluations are suggested in the conclusion, which is followed by an Index. These are drawn from the author's position that planners should approach each evaluation as a separate case, selecting that set of techniques most suited to the particular situation. Drawing on eighteen years of experience in the field, McAllister takes the view that outstanding evaluations will result from exercising sound judgment based on knowing the strengths and weaknesses of the various methodologies, rather than following a uniform set of standardized procedures. Evaluation in Environmental Planning provides a fresh point of view that will be useful to the practicing professional, public officials, active citizens, and students in such fields as environmental, energy, land-use, urban, and regional planning; civil, environmental, and systems engineering; environmental and health sciences; land

and regional economics; landscape architecture; recreation planning; and natural resources management.

Signal Processing Methods for Music Transcription-Anssi Klapuri 2007-02-26 This book serves as an ideal starting point for newcomers and an excellent reference source for people already working in the field. Researchers and graduate students in signal processing, computer science, acoustics and music will primarily benefit from this text. It could be used as a textbook for advanced courses in music signal processing. Since it only requires a basic knowledge of signal processing, it is accessible to undergraduate students.

Signal Processing, Image Processing and Pattern Recognition,-Dominik Slezak 2009-11-24 As future generation information technology (FGIT) becomes specialized and fr- mented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that c- bine ideas taken from multiple disciplines in order to achieve something more signi- cant than the sum of the individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout mul- faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), D- aster Recovery and Business Continuity (DRBC; published independently), Future G- eration Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), M- timedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and- and e-Service, Science and Technology (UNESST).

Communcations and Information Processing-Maotai Zhao 2012-06-28 The two volume set, CCIS 288 and 289, constitutes the thoroughly refereed post-conference proceedings of the First International Conference on Communications and Information Processing, ICCIP 2012, held in Aveiro, Portugal, in March 2012. The 168 revised full papers of both volumes were carefully reviewed and selected from numerous submissions. The papers present the state-of-the-art in communications and information processing and feature current research on the theory, analysis, design, test and deployment related to communications and information processing systems.

Progress in Image Analysis and Processing, ICIAP 2013-Alfredo Petrosino 2013-09-03 This two volume set (LNCS 8156 and 8157) constitutes the refereed proceedings of the 17th International Conference on Image Analysis and Processing, ICIAP 2013, held in Naples, Italy, in September 2013. The 162 papers presented were carefully reviewed and selected from 354 submissions. The papers aim at highlighting the connection and synergies of image processing and analysis with pattern recognition and machine learning, human computer systems, biomedical imaging and applications, multimedia interaction and processing, 3D computer vision, and understanding objects and scene.

Neural Information Processing-Minho Lee 2013-10-29 The three volume set LNCS 8226, LNCS 8227, and LNCS 8228 constitutes the proceedings of the 20th International Conference on Neural Information Processing, ICONIP 2013, held in Daegu, Korea, in November 2013. The 180 full and 75 poster papers presented together with 4 extended abstracts were carefully reviewed and selected from numerous submissions. These papers cover all major topics of theoretical research, empirical study and applications of neural information processing research. The specific topics covered are as follows: cognitive science and artificial intelligence; learning theory, algorithms and architectures; computational neuroscience and brain imaging; vision, speech and signal processing; control, robotics and hardware technologies and novel approaches and applications.

Human-System Integration in the System Development Process-National Research Council 2007-06-15 In April 1991 BusinessWeek ran a cover story entitled, "I Can't Work This ?#!!@ Thing," about the difficulties many people have with consumer products, such as cell phones and VCRs. More than 15 years later, the situation is much the same"-but at a very different level of scale. The disconnect between people and technology has had society-wide consequences in the large-scale system accidents from major human error, such as those at Three Mile Island and in Chernobyl. To prevent both the individually annoying and nationally significant consequences, human capabilities and needs must be considered early and throughout system design and development. One challenge for such consideration has been providing the background and data needed for the seamless integration of humans into the design process from various perspectives: human factors engineering, manpower, personnel, training, safety and health, and, in the military, habitability and survivability. This collection of development activities has come to be called human-system integration (HSI). Human-System Integration in the System Development Process reviews in detail more than 20 categories of HSI methods to provide invaluable guidance and information for system designers and developers.

Corpus-Based Methods in Language and Speech Processing-Steve Young 2013-03-14 Corpus-based methods will be found at the heart of many language and speech processing systems. This book provides an in-depth introduction to these technologies through chapters describing basic statistical modeling techniques for language and speech, the use of Hidden Markov Models in continuous speech recognition, the development of dialogue systems, part-of-speech tagging and partial parsing, data-oriented parsing and n-gram language modeling. The book attempts to give both a clear overview of the main technologies used in language and speech processing, along with sufficient mathematics to understand the underlying principles. There is also an extensive bibliography to enable topics of interest to be pursued further. Overall, we believe that the book will give newcomers a solid introduction to the field and it will give existing practitioners a concise review of the principal technologies used in state-of-the-art language and speech processing systems. Corpus-Based Methods in Language and Speech Processing is an initiative of ELSNET, the European Network in Language and Speech. In its activities, ELSNET attaches great importance to the integration of language and speech, both in research and in education. The need for and the potential of this integration are well demonstrated by this publication.

Evaluating Natural Language Processing Systems-Karen Sparck Jones 1995 This book is about the patterns of connections between brain structures. It reviews progress on the analysis of neuroanatomical connection data and presents six different approaches to data analysis. The results of their application to data from cat and monkey cortex are explored. This volume sheds light on the organization of the brain that is specified by its wiring.

Control Methods in Polymer Processing-L. Halász 2012-12-02 This book discusses the process theories and automation levels of the most important polymer processes which are necessary to achieve product quality and process economy. The book describes mixing, calendering, screw plastications, sheet and tube extrusion, film blowing, blow moulding and injection moulding. The control methods employed for each of these individual processes are presented in detail. The book is designed to provide information on static and dynamic processes and viable control systems.

Evaluating Programs to Increase Student Achievement-Martin H. Jason 2008-03-27 This updated edition on evaluating the effectiveness of school programs provides an expanded needs-assessment section, additional methods for data analysis, and tools for communicating program results.

String Processing and Information Retrieval-Liliana Calderon-Benavides 2012-09-13 This book constitutes the refereed proceedings of the 19th International Symposium on String Processing and Information Retrieval, SPIRE 2012, held in Cartagena de Indias, Colombia, in October 2012. The 26 full papers, 13 short papers, and 3 keynote speeches were carefully reviewed and selected from 81 submissions. The following topics are covered: fundamentals algorithms in string processing and information retrieval; SP and IR techniques as applied to areas such as computational biology, DNA sequencing, and Web mining.

Modeling Decisions for Artificial Intelligence-Vicenc Torra 2006-03-20 This book constitutes the refereed proceedings of the Third International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2006, held in Tarragona, Spain, in April 2006. The 31 revised full papers presented together with 4 invited lectures were thoroughly reviewed and selected from 97 submissions. The papers are devoted to theory and tools for modeling decisions, as well as applications that encompass decision making processes and information fusion techniques.

Commercial Fruit Processing-Jasper Woodroof 2012-12-06 • use of fewer additives containing sodium, spices, artificial colors and flavors, and "energy" • continued use of fruits in cereals, salads, cakes, pies, and other com binations, as a source of minerals, vitamins, fiber, and natural flavors and colors An important recent innovation is low-moisture processing, in which fruit, with no added sugar, preservative, or carrier, is converted into convenient dehydrated forms. Development of this technology has been stimulated by high transportation rates, improvements in technology, and revolutionary new packages. In addition to raisins, prunes, and dehy drated apples, pears, peaches, and apricots, bananas are available in flakes, slices, and granules; pineapple and other tropical fruits also are available in new forms. Another low-moisture product is apple fiber sol ids, consisting of cell wall material (cellulose, hemicellulose, lignin, and pectin) and apple sugars. Low-moisture forms of other fruits are becom mg more common. Commercial Fruit Processing is a companion volume to Commercial Vegetable Processing, also edited by B. S. Luh and J. G. Woodroof; both are being updated and revised simultaneously. Grateful acknowledgments and thanks go to contributors who wrote in their own area of expertise on commercial fruit processing. Credit also goes to more than a dozen commercial companies and individuals who supplied photographs, charts, tables, and data from commercial opera tions. Thanks also to Ann Autry who typed, corrected, and edited the manu script; and to Naomi C. Woodroof, my wife, for assisting in research.

Food Engineering: Integrated Approaches-Gustavo F. Gutiérrez-Lopez 2008-02-29 This book presents a significant and up-to-date review of various integrated approaches to food engineering. Distinguished food engineers and food scientists from key institutions worldwide have contributed chapters that provide a deep

analysis of their particular subjects. Emerging technologies and biotechnology are introduced, and the book discusses predictive microbiology, packing materials for foods, and biodegradable films. This book is mainly directed to academics, and to undergraduate and postgraduate students in food engineering and food science and technology, who will find a selection of topics.

Handbook of Food Engineering Practice-Kenneth J. Valentas 1997-07-23 Food engineering has become increasingly important in the food industry over the years, as food engineers play a key role in developing new food products and improved manufacturing processes. While other textbooks have covered some aspects of this emerging field, this is the first applications-oriented handbook to cover food engineering processes and manufacturing techniques. A major portion of Handbook of Food Engineering Practice is devoted to defining and explaining essential food operations such as pumping systems, food preservation, and sterilization, as well as freezing and drying. Membranes and evaporator systems and packaging materials and their properties are examined as well. The handbook provides information on how to design accelerated storage studies and determine the temperature tolerance of foods, both of which are important in predicting shelf life. The book also examines the importance of physical and rheological properties of foods, with a special look at the rheology of dough and the design of processing systems for the manufacture of dough. The final third of the book provides useful supporting material that applies to all of the previously discussed unit operations, including cost/profit analysis methods, simulation procedures, sanitary guidelines, and process controller design. The book also includes a survey of food chemistry, a critical area of science for food engineers.

Advanced Methods in Materials Processing Defects-M. Predeleanu 1997-06-18 This collection of papers focus on advanced methods for predicting and avoiding the occurrence of defects in manufactured products. A new feature is included, namely, the influence of the processing-induced defects on the integrity of structures. The following topics are developed: damage modeling; damage evaluation and rupture; strain localization and instability analysis; formability characterization; prediction of shape inaccuracies; influence of defects on structural integrity. The main manufacturing operations are covered and various materials are examined, such as new and conventional metal alloys, ceramics, polymers and composites.

Advances in Knowledge Discovery and Data Mining-Wee Keong Ng 2006-03-31 The Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) is a leading international conference in the area of data mining and knowledge discovery. This year marks the tenth anniversary of the successful annual series of PAKDD conferences held in the Asia Pacific region. It was with pleasure that we hosted PAKDD 2006 in Singapore again, since the inaugural PAKDD conference was held in Singapore in 1997. PAKDD 2006 continues its tradition of providing an international forum for researchers and industry practitioners to share their new ideas, original research results and practical development experiences from all aspects of KDD data mining, including data cleaning, data warehousing, data mining techniques, knowledge visualization, and data mining applications. This year, we received 501 paper submissions from 38 countries and regions in Asia, Australasia, North America and Europe, of which we accepted 67 (13.4%) papers as regular papers and 33 (6.6%) papers as short papers. The distribution of the accepted papers was as follows: USA (17%), China (16%), Taiwan (10%), Australia (10%), Japan (7%), Korea (7%), Germany (6%), Canada (5%), Hong Kong (3%), Singapore (3%), New Zealand (3%), France (3%), UK (2%), and the rest from various countries in the Asia Pacific region.

Communications and Information Processing-Maotai Zhao 2012-06-28 The two volume set, CCIS 288 and 289, constitutes the thoroughly refereed post-conference proceedings of the First International Conference on Communications and Information Processing, ICCIP 2012, held in Aveiro, Portugal, in March 2012. The 168 revised full papers of both volumes were carefully reviewed and selected from numerous submissions. The papers present the state-of-the-art in communications and information processing and feature current research on the theory, analysis, design, test and deployment related to communications and information processing systems.

Food Processing: Strategies for Quality Assessment-Abdul Malik 2014-11-05 The aim of the food processing is to ensure microbiological and chemical safety of foods, adequate nutrient content and bioavailability and acceptability to the consumer with regard to sensory properties and ease of preparation. Processing may have either beneficial or harmful effects on these properties, so each of these factors must be taken into account in the design and preparation of foods. This book offers a unique dealing with the subject and provides not only an update of state-of-the art techniques in many critical areas of food processing and quality assessment, but also the development of value added products from food waste, safety and nanotechnology in the food and agriculture industry and looks into the future by defining current obstacles and future research goals. This book is not intended to serve as an encyclopedic review of the subject. However, the various chapters incorporate both theoretical and practical aspects and may serve as baseline information for future research through which significant development is possible.

Microbiological Risk Assessment in Food Processing-M. Brown 2002-09-26 Microbiological risk assessment (MRA) is one of the most important recent developments in food safety management. Adopted by Codex Alimentarius and many other international bodies, it provides a structured way of identifying and assessing microbiological risks in food. Edited by two leading authorities, and with contributions by international experts in the field, Microbiological risk assessment provides a detailed coverage of the key steps in MRA and how it can be used to improve food safety. The book begins by placing MRA within the broader context of the evolution of international food safety standards. Part one introduces the key steps in MRA methodology. A series of chapters discusses each step, starting with hazard identification and characterisation before going on to consider exposure assessment and risk characterisation. Given its importance, risk communication is also covered. Part two then considers how MRA can be implemented in practice. There are chapters on implementing the results of a microbiological risk assessment and on the qualitative and quantitative tools available in carrying out a MRA. It also discusses the relationship of MRA to the use of microbiological criteria and another key tool in food safety management, Hazard Analysis and Critical Control Point (HACCP) systems. With its authoritative coverage of both principles and key issues in implementation, Microbiological risk assessment in food processing is a standard work on one of the most important aspects of food safety management. Provides a detailed coverage of the key steps in microbiological risk assessment (MRA) and how it can be used to improve food safety Places MRA within the broader context of the evolution of international food safety standards Introduces the key steps in MRA methodology, considers exposure assessment and risk characterisation, and covers risk communication

Food Processing Handbook-James G. Brennan 2012-05-07 The second edition of the Food Processing Handbook presents a comprehensive review of technologies, procedures and innovations in food processing, stressing topics vital to the food industry today and pinpointing the trends in future research and development. Focusing on the technology involved, this handbook describes the principles and the equipment used as well as the changes - physical, chemical, microbiological and organoleptic - that occur during food preservation. In so doing, the text covers in detail such techniques as post-harvest handling, thermal processing, evaporation and dehydration, freezing, irradiation, high-pressure processing, emerging technologies and packaging. Separation and conversion operations widely used in the food industry are also covered as are the processes of baking, extrusion and frying. In addition, it addresses current concerns about the safety of processed foods (including HACCP systems, traceability and hygienic design of plant) and control of food processes, as well as the impact of processing on the environment, water and waste treatment, lean manufacturing and the roles of nanotechnology and fermentation in food processing. This two-volume set is a must-have for scientists and engineers involved in food manufacture, research and development in both industry and academia, as well as students of food-related topics at undergraduate and postgraduate levels. From Reviews on the First Edition: "This work should become a standard text for students of food technology, and is worthy of a place on the bookshelf of anybody involved in the production of foods." Journal of Dairy Technology, August 2008 "This work will serve well as an excellent course resource or reference as it has well-written explanations for those new to the field and detailed equations for those needing greater depth." CHOICE, September 2006

Knowledge into Action: Research and Evaluation in Library and Information Science-Danny P. Wallace 2012-06-12 The only book currently available that comprehensively integrates research and evaluation for evidence-based library and information science practice.

Advances in Natural Language Processing-Tapio Salakoski 2006-08-10 This book constitutes the refereed proceedings of the 5th International Conference on Natural Language Processing, FinTAL 2006, held in Turku, Finland in August 2006. The book presents 72 revised full papers together with 1 invited talk and the extended abstracts of 2 invited keynote addresses. The papers address all current issues in computational linguistics and monolingual and multilingual intelligent language processing - theory, methods and applications.

Rapid Thermal Processing for Future Semiconductor Devices-H. Fukuda 2003-04-02 This volume is a collection of papers which were presented at the 2001 International Conference on Rapid Thermal Processing (RTP 2001) held at Ise Shima, Mie, on November 14-16, 2001. This symposium is second conference followed the previous successful first International RTP conference held at Hokkaido in 1997. The RTP 2001 covered the latest developments in RTP and other short-time processing continuously aiming to point out the future direction in the Silicon ULSI devices and II-VI, III-V compound semiconductor devices. This book covers the following areas: advanced MOS gate stack, integration technologies, advancd channel engineering including shallow junction, SiGe, hetero-structure, novel metallization, inter-connect, silicidation, low-k materials, thin dielectrics including gate dielectrics and high-k materials, thin film deposition including SiGe, SOI and SiC, process and device modelling, Laser-assisted crystallization and TFT device fabrication technologies, temperature monitoring and slip-free technologies.

Parallel Text Processing-Jean Véronis 2013-03-14 l This book evolved from the ARCADE evaluation exercise that started in 1995. The project's goal is to evaluate alignment systems for parallel texts, i. e. , texts accompanied by their translation. Thirteen teams from various places around the world have

participated so far and for the first time, some ten to fifteen years after the first alignment techniques were designed, the community has been able to get a clear picture of the behaviour of alignment systems. Several chapters in this book describe the details of competing systems, and the last chapter is devoted to the description of the evaluation protocol and results. The remaining chapters were especially commissioned from researchers who have been major figures in the field in recent years, in an attempt to address a wide range of topics that describe the state of the art in parallel text processing and use. As I recalled in the introduction, the Rosetta stone won eternal fame as the prototype of parallel texts, but such texts are probably almost as old as the invention of writing. Nowadays, parallel texts are electronic, and they are be coming an increasingly important resource for building the natural language processing tools needed in the "multilingual information society" that is cur rently emerging at an incredible speed. Applications are numerous, and they are expanding every day: multilingual lexicography and terminology, machine and human translation, cross-language information retrieval, language learning, etc.

Tomato Production, Processing, and Quality Evaluation-Wilbur A. Gould 1983

Neural Networks and Soft Computing-Janusz Kacprzyk 2003-02-12 This volume presents new trends and developments in soft computing techniques. Topics include: neural networks, fuzzy systems, evolutionary computation, knowledge discovery, rough sets, and hybrid methods. It also covers various applications of soft computing techniques in economics, mechanics, medicine, automatics and image processing. The book contains contributions from internationally recognized scientists, such as Zadeh, Bubnicki, Pawlak, Amari, Batyrshin, Hirota, Koczy, Kosinski, Novák, S.-Y. Lee, Pedrycz, Raudys, Setiono, Sincak, Strumillo, Takagi, Usui, Wilamowski and Zurada. An excellent overview of soft computing methods and their applications.

Optical Methods for Data Processing in Heat and Fluid Flow-Clive Greated 2002-08-30 Optical methods are now used routinely for the measurement of velocity, concentration, temperature, and other parameters in wide-ranging areas of industrial research and design such as IC engines, turbines, and combustors. Recent advances such as the use of high-resolution CCD cameras and the extension of flow mapping to three dimensions, make optical tools such as particle image velocimetry increasingly viable for use in the industrial environment. This excellent book presents new developments in optical diagnostic techniques in heat and fluid flow and offers an unparalleled opportunity for industrialists and academic researchers to exchange ideas. CONTENTS INCLUDE: Comparison of injector sprays for gasoline direct-injection engines The design, development, and preliminary results from a high-speed, optically accessed, single cylinder engine The reflected spectrum of complex multi-layered inhomogeneous highly scattering medium Development of full volume digital holography for particle measurement Improved liquid crystal thermography by using true-colour image processing technology Development of an optical measuring technique for the study of acoustical phenomena Spatio-temporal reconstruction of the unsteady wake of axisymmetric bluff bodies via time-recording DPIV Application of particle image velocimetry to helicopter vortex interactions Pulsed laser particle image velocimetry using a fibre-optic delivery system Automated fringe analysis for profilometric mass-transfer experiments.

Sweet Potato Post-Harvest Assessment-Debbie Rees 2003-06

Data Acquisition and Processing in Biology and Medicine-Kurt Enslein 2013-10-22 Data Acquisition and Processing in Biology and Medicine, Volume 5 presents the proceedings of the 1966 Rochester Conference. The book presents a model based on the visco-elastic behavior of the aorta and arterioles that can generate aortic pressure curves resembling real ones; and the computer-aided diagnosis. The text also includes papers on an electric analog for the uptake, distribution and excretion of inhalation anesthetics; the use of computer analysis of morphological pattern as an aid in taxonomic discrimination; and a simulation study of a hand controlled by myoelectric signals. Computer-aided differentiation of glycemic curves, as well as the use of Fourier waveform analysis to confirm the differentiability of preganglionic slow potentials into postganglionic slow potential waveforms are also encompassed.

Mineral Processing Technology Mpt-2005-Venugopal 2005-01-01 Contributed papers.

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