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pensare • poetare*After the European landscape convention* Laboratorio Internazionale Di
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Members of the Moravian Church who settled in North Carolina were meticulous record keepers, documenting almost every aspect of their day-to-day lives. A significant part of those records is preserved in the form of photographs. Moravian photographers-both professional and amateur-created an enduring legacy by capturing their society and surroundings in faithful detail. Their photographs, which record the towns of Bethabara, Bethania, Salem, Friedberg, Hope, and Friedland, as well as other communities throughout the state, provide a rare glimpse into the historic world of Moravian life in North Carolina. The elegant 'interconnected mechanisms' by which the gastrointestinal (GI) tract regulates food intake are a marvel of biology, but the redundancy (e.g., several hormones seem to have effects in food intake) of both GI (by means of hormones) and central nervous system

(CNS, by means of satiety/satiation signals) pathways governing energy homeostasis poses formidable challenges for scientists trying to take a clear glimpse of this machinery, e.g. for designing anti-obesity and alike pharmaceuticals. In essence, notwithstanding the astonishing advancements made over the past few decades in unscrambling many of the molecular pathways involved in energy (homeostasis) regulation, a rather cloudy understanding of “how all the pieces fit together to function as an integrated system” is what can be found for the most part in the scientific community; we discuss that in part II of the work, in a single chapter divided in several sections for numerous imperative hormones, e.g. cholecystokinin. The current work is divided into three parts: part I is regarding fundamentals of physiology and mathematical modeling employed all over the work; part II is more generic and concerns several hormones (what we have called a “web of hormones”) and part III (divided into three chapters) is more specific, concerning a single hormone (i.e., ghrelin). The core of the work is part III, and to a certain extent part II, bearing mind we provide a literature review based on papers scattered/dispersed all over the medical science literature. The main objective of this work is proposing a mathematical model for ghrelin dynamics (Figure 70), a model centered on the gastrointestinal tract (stomach + small intestine, a two-compartment model), with daily-like dynamics, short-term dynamics; and, simultaneously, proposing a prototype for a systems biology like model (figure 40), a model based on numerous hormones, for understanding mathematically food intake/bodyweight control. Ghrelin is a quite powerful orexigenic hormone discovered in the late 1990s that controls appetite and energy homeostasis, alongside leptin and other hormones still to be investigated in depth by the medical sciences literature. Accordingly, we provide a (simple) mathematical model, consisting of a set of ordinary differential equations detailing ghrelin dynamics combined to gastrointestinal signals due to meals. Numerical simulations are able to replicate *in silico* available data from the literature; additionally, we were able to fit a reduced version of the basal model to experimental data. The model is developed as a module for a bigger potential multi-compartmental structure, detailing food and energy homeostasis within a sort of “a web of hormones” (see part II and the last chapter of part III). The present contribute is to recommend a primary mathematical model for ghrelin dynamics centered in the gastrointestinal tract, with potentiality to be applied also for postabsorptive states, left mainly as future works. We go on with the model by presenting mainly two variations, further unfolding is left as future endeavor: tastants and stochastic version. We test several optimization routines for the parameter estimation procedure, hybrid algorithms (global + local search), for parameter estimation, based on data published for humans (three meals a day). For all the routines, the best is a hybrid composed of simulating annealing as global search and pattern search as local search. In the objective function (sum of the squared errors, SSE), we apply artificial neural networks (a two-layer feedforward neural network) for generating new data from the data already published, a strategy adopted to increase the data set. In the last part of the chapter about ghrelin modeling (part III), we propose several prototypes for future works based on the basal models; the model used for parameter estimation is a “minimal/reduced” model; we also provide discussions and future works for the minimal model and parameter estimation. Keywords. Ghrelin; leptin; mathematical modelling; food intake; appetite; parameter estimation. Il Volume, dedicato al tema della Sicurezza nei Cantieri edili, ha un taglio essenzialmente

pratico ed operativo per gli "addetti ai lavori", ma rigorosamente inquadrato nel sistema legislativo come interpretato dalla giurisprudenza. STRUTTURA PARTE PRIMA La Direttiva cantieri 92/57/CEE: quadro giuridico di riferimento, oggetto e campo di applicazione, recepimento nell'ordinamento giuridico italiano. Le decisioni della Corte di Giustizia Europea di maggior interesse. PARTE SECONDA Analisi e commento al titolo IV del D.Lgs 81/08 come modificato dal D.Lgs. 106/2009 e raffronto con la disciplina precedente. PARTE TERZA Indicazioni operative per la redazione dei seguenti documenti: contratto d'appalto; verifica dell'idoneità tecnico professionale dell'appaltatore; notifica preliminare PSC (piano di sicurezza e coordinamento) POS (piano operativo di sicurezza) documentazione attività di coordinamento: scheda di acquisizione dati e richiesta documentazione verbale riunione preliminare verbale riunioni di coordinamento verbale sopralluogo e verifica in cantiere prescrizione adeguamento POS schede di verifica delle attività di cantiere giornale di coordinamento comunicazione inadempienze riscontrate dal coordinatore per l'esecuzione e prescrizioni fascicolo tecnico dell'opera PARTE QUARTA Rassegna della giurisprudenza più significativa, degli ultimi anni, della Corte di Cassazione in versione integrale. This contributed volume is a collection of international writings on dance, human rights, and social justice in the 20th and 21st centuries. The book illuminates and analyzes dance in contexts of oppression and its subversion, as well as in situations promoting access to dance, and those encouraging healing from human rights abuses through movement. The Cray Research MPP Fortran Programming Model.- Resource Optimisation via Structured Parallel Programming.- SYNAPS/3 - An Extension of C for Scientific Computations.- The Pyramid Programming System.- Intelligent Algorithm Decomposition for Parallelism with Alfer.- Symbolic Array Data Flow Analysis and Pattern Recognition in Numerical Codes.- A GUI for Parallel Code Generation.- Formal Techniques Based on Nets, Object Orientation and Reusability for Rapid Prototyping of Complex Systems.- Adaptor - A Transformation Tool for HPF Programs.- A Parallel Framework for Unstructured Grid Solvers.- A Study of Software Development for High Performance Computing.- Parallel Computational Frames: An Approach to Parallel Application Development based on Message Passing Systems.- A Knowledge-Based Scientific Parallel Programming Environment.- Parallel Distributed Algorithm Design Through Specification Transformation: The Asynchronous Vision System.- Steps Towards Reusability and Portability in Parallel Programming.- An Environment for Portable Distributed Memory Parallel Programming.- Reuse, Portability and Parallel Libraries.- Assessing the Usability of Parallel Programming Systems: The Cowichan Problems.- Experimentally Assessing the Usability of Parallel Programming Systems.- Experiences with Parallel Programming Tools.- The MPI Message Passing Interface Standard.- An Efficient Implementation of MPI.- Post: A New Postal Delivery Model.- Asynchronous Backtrackable Communications in the SLOOP Object-Oriented Language.- A Parallel I/O System for High-Performance Distributed Computing.- Language and Compiler Support for Parallel I/O.- Locality in Scheduling Models of Parallel Computation.- A Load Balancing Algorithm for Massively Parallel Systems.- Static Performance Prediction in PCASE: A Programming Environment for Parallel Supercomputers.- A Performance Tool for High-Level Parallel Programming Languages.- Implementation of a Scalable Trace Analysis Tool.- The Design of a Tool for Parallel Program Performance Analysis and Tuning.- The

MPP Apprentice Performance Tool: Delivering the Performance of the Cray T3D.-
Optimized Record-Replay Mechanism for RPC-based Parallel Programming.- Abstract
Debugging of Distributed Applications.- Design of a Parallel Object-Oriented Linear
Algebra Library.- A Library for Coarse Grain Macro-Pipelining in Distributed Memory
Architectures.- An Improved Massively Parallel Implementation of Colored Petri-Net
Specifications.- A Tool for Parallel System Configuration and Program Mapping based on
Genetic Algorithms.- Emulating a Paragon XP/S on a Network of Workstations.-
Evaluating VLIW-in-the-large.- Implementing a N-Mixed Memory Model on a Distributed
Memory System.- Working Group Report: Reducing the Complexity of Parallel Software
Development.- Working Group Report: Usability of Parallel Programming System.-
Working Group Report: Skeletons/Templates. The book is composed of several articles that
explore complexity in its most varied aspects. The solution of contemporary problems,
whatever they may be, requires a multifaceted vision, far beyond the reductionist
perspective. The study of complex systems, however, does not have the capacity to offer
ready answers to the challenges of humanity. On the contrary, it points to the increase in
uncertainty, the need to control variables, and uncertainty. This does not mean, therefore,
that we should simply ignore the social, economic, and political phenomena that are all
around us. What this book demonstrates is the importance of knowledge being
disseminated, and it is imperative that different sciences exchange ideas, theories, and
breakthroughs. C. Ferrari: Premessa.- M.S.v. Krzywoblocki: The mathematical aspects of
rarefied gas dynamics as applied to hypersonic, reentry and magneto-gas-dynamics.- J.
Kampé de Fériet: La théorie de l'information et la mécanique statistique classique des
systèmes en équilibre.- M. Lunc: Equations de transport.- I. Estermann: 1. Applications of
molecular beams to problems in rarefied gas dynamics. 2. Experimental methods in rarefied
gas dynamics.- S. Nocilla: Sull'integrazione tra flussi di molecole libere e superfici rigide.-
F. Sernagiotto: Solution of Rayleigh's problem for the whole range of Knudsen numbers.-
G. Tironi: Linearized Rayleigh's Problem in magnetogasdynamics.- D. Graffi: Alcuni
richiami sulla ionosfera.- C. Agostinelli: Le equazioni delle onde d'urto in un gas rarefatto
elettricamente conduttore soggetto a un campo magnetico. This volume proposes a rich
corpus of papers about the 'Other City', a subject only few times dealt with, but worthy of
all our attention: it imposes itself on the scene of international modern and contemporary
historiography for its undeniable topicality. Throughout history, the city has always had to
deal with social 'otherness', i.e. with class privileges and, consequently, with discrimination
and marginalization of minorities, of the less well-off, of foreigners, in short, with the
differences in status, culture, religion. So that the urban fabric has ended up structuring
itself also in function of those inequalities, as well as of the strategic places for the exercise
of power, of the political, military or social control, of the spaces for imprisonment, for the
sanitary isolation or for the 'temporary' remedy to the catastrophes. From the first portraits
of cities, made and diffused at the beginning of the fifteenth century for political exaltation
purposes or for religious propaganda and for devotional purposes, which often, through
increasingly refined graphic techniques, distort or even deny the true urban image, we
reach, at the dawn of contemporary history, the new meaning given by scientific topography
and new methods of representation; these latter aimed at revealing the structure and the
urban landscape in their objectivity, often unexpected for who had known the city through

the filter of 'regime' iconography. The representation of the urban image still shows the contradictions of a community that sometimes includes and even exalts the diversities, other times rejects them, showing the unease of a difficult integration. Reportage a cura di Studio Martelli & Partners sulle controversie assicurative. [Italiano]: Il lavoro progettuale condotto sulla città di Frattaminore ha rappresentato, per gli studenti all'ultimo anno del corso di studi in Architettura 5UE, un esperimento di grande rilevanza, dal punto di vista progettuale e professionale, verso lo sviluppo di un approccio teso a trovare una risposta adeguata e concreta alle molteplici necessità poste dalla realtà del contesto in cui opera. La pubblicazione raccoglie gli esiti del lavoro svolto nell'arco dell'anno accademico 2020-2021, ponendo in evidenza la molteplicità di aspetti e temi progettuali affrontati, così come la varietà delle soluzioni proposte. La struttura del libro rispecchia tale approccio sperimentale, a partire dall'esplorazione di alcuni temi e metodi preliminari, esaminati nella sezione "Saggi"; proseguendo attraverso lo strumento del "mapping" e dell'interazione con l'ambiente e con le persone che abitano i luoghi; giungendo, infine, alla messa a sistema e ad una "sintesi" delle informazioni e delle indagini effettuate attraverso le proposte progettuali, descritte nella sezione "Progetti". Ciascun tema progettuale prevede un approfondimento teorico, attraverso un saggio introduttivo, e svariate declinazioni progettuali che provano in maniera alternativa a fornire possibili scenari per la città. Per provare a risolvere le criticità esistenti, ma anche per valorizzare le potenzialità e i vari patrimoni del territorio di Frattaminore, le proposte progettuali sono state costruite attraverso un meccanismo di innesto nell'esistente, non orientato alla definizione di una forma compiuta e di una funzione predeterminata, ma che, al contrario, ha consentito di lavorare su un'idea di forma aperta, che ha riutilizzato quanto esiste, che ha incluso molteplici possibilità di uso e che ha cambiato continuamente la propria perimetrazione, estendendosi e inglobando pezzi urbani di diversa natura. Scenari di nuovi possibili significati e nuove trasformazioni urbane sono, dunque, il risultato di questo lavoro, composto da diversi livelli di approfondimento legati all'idea generale di Frattaminore come città in transizione./[English]: The design work carried out on the city of Frattaminore represented, for the students in the last year of the Master's Program in Architecture 5UE, an important experiment, from a design and professional point of view, towards the development of an approach aimed at finding an adequate and factual response to the multiple needs posed by the reality of the context in which it operates. The book collects the results of the work carried out during the 2020-2021 academic year, highlighting the multiplicity of aspects and design topics addressed, as well as the variety of the proposed solutions. The structure of the book reflects this experimental approach, starting with the exploration of some preliminary topics and methods, examined in the "Essays" section; continuing through the tool of the "mapping" and the interaction with the environment and with the people who live the places; finally, working on assembling and defining a "synthesis" of data and investigations through the design proposals, described in the "Projects" section. Each project theme includes a theoretical study through an introductory essay, and several design variations to provide, in an alternative way, possible scenarios for the city. To try to solve the existing critical issues, yet to enhance the potential and the various heritage of the city of Frattaminore, the project proposals were built grafting into the existing, not oriented towards the definition of a closed form and a predetermined

function. On the contrary, it has implied to work on the idea of an open form, which reuses what already exists, including multiple possibilities of use and continuously changing its perimeter, extending and incorporating urban pieces of different nature. Scenarios of new possible meanings and new urban transformations are, therefore, the result of this work, made up of different levels of study and research related to the general idea of Frattaminore as a city in transition. This monograph is a comparative study of the Saline area and of the Aeolian Islands dioceses' settlement in Late Antiquity and in the Early Middle ages. This book stems from the seminal work of Robert Venturi and aims at re-projecting it in the current cultural debate by extending it to the scale of landscape and placing it in connection with representative issues. It brings out the transdisciplinary synthesis of a necessarily interdisciplinary approach to the theme, aimed at creating new models which are able to represent the complexity of a contradictory reality and to redefine the centrality of human dimension. As such, the volume gathers multiple experiences developed in different geographical areas, which come into connection with the role of representation. Composed of 43 chapters written by 81 authors from around the world, with an introduction by Jim Venturi and Cezar Nicolescu, the volume is divided into two parts, the first one more theoretical and the other one which showcases real-world applications, although there is never a total split between criticism and operational experimentation of research. This volume contains eight contributions on the common theme of masonry construction. The publication coincides with the retirement of Dr Jacques Heyman from his Professorship of Engineering in the University of Cambridge, and Headship of the University's Engineering Department. It is entirely appropriate to have a collection of papers in honour of Professor Heyman at this time; for he has made signal contributions to our understanding of masonry construction over the past thirty years or so. It is no exaggeration to say that he has radically changed the way in which engineers think about masonry structures, particularly in relation to the old ecclesiastical buildings and bridges. Indeed it is hard to imagine what this subject would be like today in the absence of Professor Heyman's seminal papers.

Il presente testo affronta il tema dell'Angelologia studiando la Cabalà, le lettere ebraiche che compongono il nome di ognuno dei 72 Angeli e proponendo una spiegazione del carattere, dei talenti e dei difetti appartenenti a tutte le persone nate sotto l'influenza di ogni Angelo specifico. Inoltre ci sono capitoli introduttivi e di spiegazione sui Fiori di Bach, Fiori Australiani, Pietre, Aromaterapia e colori in quanto rimedi consigliati per creare un collegamento diretto con la propria energia Angelica specifica. Questi rimedi hanno la capacità, se usati in sinergia tra loro e con l'intenzione profonda della persona, di eliminare tutte quelle ostruzioni energetiche, psicologiche ed emotive che impediscono di contattare il flusso di energia del proprio Angelo, precludendo così le possibilità di sviluppo più profonde della persona.

A discussion of developments in the measurement and interpretation of advanced laboratory stress-strain testing of geomaterials. It includes a collection of case studies which apply the test results and is based on the activities of the technical committee No 29 of the ISSMGE.

Gestrinov zbornik je zbornik razprav v po?astitev osemdesetletnice nestorja slovenske zgodovine akad. prof. dr. Ferda Gestrina. Zbornik poleg predgovora prinaša 48 prispevkov uglednih doma?ih in tujih avtorjev. V uvodnem delu so združeni bio- in bibliografski podatki o jubilarntu. Ostali prispevki so razvrš?eni v pet tematskih sklopov. Prvi zajema pet razprav, ki posegajo v obravnavo mediteranskega prostora. Nadaljnji blok devetih

prispevkov slika zgodovino vzhodnoalpskega prostora v srednjem in novem veku. Sledi skupina desetih razprav o gospodarski zgodovini. Tretji sklop vsebuje dvanajst prispevkov, ki slikajo politično in populacijsko zgodovino od srede 19. stoletja do druge svetovne vojne. Zadnja, peta skupina sedmih prispevkov je heterogena, obravnava pa tematiko šolstva in izobrazbe, teoretična, historiografska in filozofska vprašanja. [Italiano]: Il presente lavoro costituisce una biografia intellettuale di Jacques-André Naigeon (1735-1810), importante figura del secolo dei Lumi francese. Biografo e primo editore di Diderot, Naigeon fu testimone privilegiato delle innumerevoli vicende politiche, sociali e culturali che sconvolsero la società francese. Ateo convinto, editore infaticabile, fine conoscitore della letteratura clandestina, il giovane Naigeon fece in tempo a collaborare agli ultimi volumi dell'Encyclopédie e a partecipare, con il barone d'Holbach, alla propagazione di numerosi scritti eterodossi, materialisti e ferocemente anti-clericali; dopo la Rivoluzione – la quale lo spinse alla riflessione ma non ad un'attività politica propriamente detta – fu integrato dalla cultura "ufficiale" tramite l'elezione presso l'Institut de France: ma nonostante alcuni lavori editoriali di grande pregio, Naigeon resterà esclusivamente la testimonianza vivente di una stagione culturale ormai irripetibile. /[English]: This work aims at being an intellectual biography of Jacques-André Naigeon (1735-1810), an important figure of French Enlightenment. Not only was he very close to Diderot - of whom he was biographer and editor - but he was also a privileged witness of the countless political, social and cultural events that led to the French Revolution. Besides being a convinced atheist, a tireless publisher, a fine connoisseur of Clandestine literature, Naigeon had the opportunity to collaborate in writing the last volumes of the Encyclopédie and to participate in the propagation of heterodox, materialistic and fiercely anti-clerical writings. After the Revolution - at the beginning of which he tried in vain to make himself heard by the Assemblée Nationale - he was then integrated into the "official" culture through the election at the Institut de France: however, even if he is the author of some prestigious works, Naigeon remains exclusively the living testimony of a now unrepeatable cultural season. This book offers readers a broad view of research in some Western and Eastern European countries on pattern and signal analysis, and on coding, handling and measurement of images. It is a selection of refereed papers from two sources: first, a satellite conference within the biannual International Conference on Pattern Recognition held in Rome, November 14-17, 1988, and second, work done at the International Basic Laboratory on Image Processing and Computer Graphics, Berlin, GDR. The papers are grouped into three sections. The first section contains new proposals for the specific computation of particular features of digital images and the second section is devoted to the introduction and testing of general approaches to the solution of problems met in digital geometry, image coding, feature extraction and object classification. The third section illustrates some recent practical results obtained on real images specifically in character and speech recognition as well as in biomedicine. All the techniques illustrated in this book will find direct application in the near future. This book should interest and stimulate the reader, provoke new thoughts and encourage further research in this widely appealing field. Für die meisten Mathematiker und für viele mathematische Physiker ist der Name Erich Kähler eng verbunden mit wichtigen Begriffen der Geometrie wie zum Beispiel Kähler-Metrik, Kähler-Mannigfaltigkeiten und Kähler-Gruppen. Diese Begriffe gehen alle auf ein 14-seitiges

Papier aus dem Jahr 1932 zurück. Dabei handelt es sich jedoch nur um einen sehr kleinen Teil der vielen herausragenden Leistungen Kählers, die ein ungewöhnlich breites Spektrum umfassen: Von der Himmelsmechanik gelangte er zur komplexen Funktionentheorie, zu Differenzialgleichungen, zu analytischer und komplexer Geometrie mit Differenzialformen und schließlich zu seinem eigentlichen Hauptthema, der arithmetischen Geometrie, in der er ein Begriffssystem schuf, das der Vorläufer des heute verwendeten Systems von Grothendieck und Dieudonné ist und in weiten Teilen mit diesem übereinstimmt. Sein Hauptinteresse war es, die Gemeinsamkeiten in der Vielfalt der mathematischen Themen zu finden und so Mathematik als universelle Sprache zu etablieren.

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