

A randomized controlled trial of constraint-induced movement therapy after stroke

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Summary

Objectives. To evaluate the benefits of constraint-induced movement therapy (CIMT) relative to traditional intervention equal in treatment intensity and use of restraint mitt outside rehabilitation on motor performance and daily functions in stroke patients.

Design. Two-group randomized controlled trial (RCT).

Setting. Rehabilitation clinics.

Subjects. Twenty-two chronic stroke patients (mean time postonset of stroke = 18.9 months).

Intervention. The subjects were randomized to receive CIMT (restraint of the less affected limb combined with intensive training of the affected limb) or traditional intervention (control treatment) during the study. The treatment intensity was matched between the two groups (2 h/d, 5d/week for 3 wk). Both groups of patients received restraint of the less affected limb outside rehabilitation (ca. 3 h/d).

Main measures. Motor performance was evaluated using the Fugl-Meyer Assessment and the Motor Activity Log. Functional outcomes were evaluated using the Functional Independence Measure and the Nottingham extended activities of daily living scale.

Results. The CIMT group showed significantly greater improvements in motor performance, level of functional independence, and the mobility domain of extended activities of daily living.

Conclusions. This is the first RCT to show the benefits of CIMT, relative to control treatment equal in amount of therapy, in improving motor performance and some aspects of basic and extended activities of daily living.

Keywords: Controlled clinical trials; occupational therapy; rehabilitation; stroke; functional outcomes.

Introduction

Up to 85% of stroke survivors experience impairment of upper limb movement, leading to permanent

dependency on community care [10]. Constraint-induced movement therapy (CIMT) has been advocated to remediate upper limb impairment and functional ability. CIMT involves restraint of the less affected limb for an extended period and intense functionally oriented task practice of the affected limb [2, 8, 10].

Numerous studies [2, 8, 10] in stroke patients have shown that, in comparison with traditional intervention, CIMT can improve motor performance and functional use of the affected limb. However, a major concern about efficacy of CIMT is the lack of a study with an equal intensity control group [8]. CIMT involves training of the affected limb by shaping for several hour(s) per day over consecutive weeks while constraining use of the less affected upper extremity (UE) outside treatment sessions during this period to induce increased use of the affected limb. In contrast, traditional intervention involved training matched in the hours of training to the CIMT group but not in mitt use. The CIMT group arguably received more “treatment” during restraint wear outside rehabilitation, a possible confounding factor in previous research.

Previous research has studied the effects of CIMT on self-care ability or basic activities of daily living (ADL) performance. This study extended previous research by studying treatment outcomes in basic and extended ADL performance by using an equal intensity control group. We hypothesized that, compared to traditional intervention, CIMT would produce beneficial effects on movement performance and functional outcomes.

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Constraint On Trial

Felix Chan, Manoj Tiwari



Constraint On Trial:

Deep Learning Stellan Ohlsson, 2011-01-31 Although the ability to retain process and project prior experience onto future situations is indispensable the human mind also possesses the ability to override experience and adapt to changing circumstances Cognitive scientist Stellan Ohlsson analyzes three types of deep non monotonic cognitive change creative insight adaptation of cognitive skills by learning from errors and conversion from one belief to another incompatible belief For each topic Ohlsson summarizes past research re formulates the relevant research questions and proposes information processing mechanisms that answer those questions The three theories are based on the principles of redistribution of activation specialization of practical knowledge and re subsumption of declarative information Ohlsson develops the implications of those mechanisms by scaling their effects with respect to time complexity and social interaction The book ends with a unified theory of non monotonic cognitive change that captures the abstract properties that the three types of change share

Global Optimization and Constraint Satisfaction Christophe Jermann, 2005-05-24 This book constitutes the thoroughly refereed post proceedings of the Second International Workshop on Global Optimization and Constraint Satisfaction COCOS 2003 held in Lausanne Switzerland in November 2003 The 13 revised full papers presented were carefully selected and went through two rounds of reviewing and improvement The papers are devoted to theoretical algorithmic and application oriented issues in global constrained optimization and constraint satisfaction they are organized in topical sections on constraint satisfaction problems global optimization and applications

Rational Approaches in Language Science Matthew W. Crocker, Gerhard Jäger, Gina Kuperberg, Hannah Rohde, Elke Teich, Rory Turnbull, 2022-03-25

Principles and Practice of Constraint Programming - CP 2004 Mark Wallace, 2005-01-12 The 10th International Conference on the Principles and Practice of Constraint Programming CP 2003 was held in Toronto Canada during September 27 October 1 2004 Information about the conference can be found on the Web at <http://ai.uwaterloo.ca/cp2004> Constraint programming CP is about problem modelling problem solving programming optimization software engineering databases visualization user interfaces and anything to do with satisfying complex constraints It reaches into mathematics operations research artificial intelligence algorithms complexity modelling and programming languages and many aspects of computer science Moreover CP is never far from applications and its successful use in industry and government goes hand in hand with the success of the CP research community Constraint programming continues to be an exciting and growing research field as the annual CP conference proceedings amply witness This year from 158 submissions we chose 46 to be published in full in the proceedings Instead of selecting one overall best paper we picked out four distinguished papers though we were tempted to select at least 12 such papers In addition we included 16 short papers in the proceedings these were presented as posters at CP 2004 This volume includes summaries of the four invited talks of CP 2004 Two speakers from industry were invited However these were no ordinary industrial representatives but two of the leading researchers in the CP community

Helmut Simonis of Parc Technologies until its recent takeover by Cisco Systems and Jean Francois Puget Director of Optimization Technology at ILOG The other two invited speakers are also big movers and shakers in the research community

Metaheuristic Optimization via Memory and Evolution Cesar Rego, Bahram Alidaee, 2006-03-30 Tabu Search TS and more recently Scatter Search SS have proved highly effective in solving a wide range of optimization problems and have had a variety of applications in industry science and government The goal of Metaheuristic Optimization via Memory and Evolution Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search scatter search or both as well as variations and extensions having adaptive memory programming as a primary focus Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS or that prove new theoretical results or describe the successful application of these methods to real world problems *Introduction to*

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Adaptive Computing in Design and Manufacture VI Ian Parmee, 2004-05-11 The Adaptive Computing in Design and Manufacture conference series has become a well established largely application oriented meeting recognised by several UK Engineering Institutions and the International Society of Genetic and Evolutionary Computing The main theme of the series relates to the integration of evolutionary and adaptive computing technologies with design and manufacturing processes whilst also taking into account complementary advanced computing technologies Evolutionary and adaptive computing techniques continue to increase their penetration of industrial and commercial practice as awareness of their powerful search exploration and optimisation capabilities becomes ever more prevalent and increasing desk top computational capability renders stochastic population based search a far more viable proposition There has been a significant increase in the development and integration of commercial software tools utilising adaptive computing technologies and the emergence of related commercial research and consultancy organisations supporting the introduction of best practice in terms of industrial utilisation The book is comprised of selected papers that cover a diverse set of industrial application areas including engineering design and design environments and manufacturing process design scheduling and control Various aspects of search exploration and optimisation are investigated in the context of integration with industrial processes including multi objective and constraint satisfaction development and utilization of meta models algorithm and strategy development and human centric evolutionary approaches The role of agent based and neural net technologies in terms of supporting search processes and providing an alternative simulation environment is also explored This collection of papers will be of particular interest to both industrial researchers and practitioners in addition to the academic research communities across engineering operational research and computer science Biomedical Engineering

Systems and Technologies Ana Fred, Joaquim Filipe, Hugo Gamboa, 2008-11-27 This book contains the best papers of the First International Joint Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2008 organized by the Institute for Systems and Technologies of Information Control and Communication INSTICC technically co sponsored by the IEEE Engineering in Medicine and Biology Society EMB ACM SIGART and the Workflow Management Coalition WfMC in cooperation with AAAI The purpose of the International Joint Conference on Biomedical Engineering Systems and Technologies is to bring together researchers and practitioners including engineers biologists health professionals and informatics computer scientists interested in both theoretical advances and applications of information systems artificial intelligence signal processing electronics and other engineering tools in knowledge areas related to biology and medicine BIOSTEC is composed of three co located conferences each specializes in one of the aforementioned main knowledge areas namely BIODEVICES International Conference on Biomedical Electronics and Vices focuses on aspects related to electronics and mechanical engineering specially equipment and materials inspired from biological systems and or dressing biological requirements Monitoring devices instrumentation sensors and systems biorobotics micro nanotechnologies and biomaterials are some of the technologies addressed at this conference

Swarm Intelligence Felix Chan, Manoj Tiwari, 2007-12-01 In the era globalisation the emerging technologies are governing engineering industries to a multifaceted state The escalating complexity has demanded researchers to find the possible ways of easing the solution of the problems This has motivated the researchers to grasp ideas from the nature and implant it in the engineering sciences This way of thinking led to emergence of many biologically inspired algorithms that have proven to be efficient in handling the computationally complex problems with competence such as Genetic Algorithm GA Ant Colony Optimization ACO Particle Swarm Optimization PSO etc Motivated by the capability of the biologically inspired algorithms the present book on Swarm Intelligence Focus on Ant and Particle Swarm Optimization aims to present recent developments and applications concerning optimization with swarm intelligence techniques The papers selected for this book comprise a cross section of topics that reflect a variety of perspectives and disciplinary backgrounds In addition to the introduction of new concepts of swarm intelligence this book also presented some selected representative case studies covering power plant maintenance scheduling geotechnical engineering design and machining tolerances layout problems manufacturing process plan job shop scheduling structural design environmental dispatching problems wireless communication water distribution systems multi plant supply chain fault diagnosis of airplane engines and process scheduling I believe these 27 chapters presented in this book adequately reflect these topics

Pediatric Stroke and Cerebrovascular Disorders E. Steve Roach, MD, Warren D. Lo, MD, Geoffrey L. Heyer, MD, 2012 The new third edition provides a modern clinical approach to managing stroke and other cerebrovascular problems in infants children and adolescents Incorporating data from important clinical trials and case series recommendations from the American Heart Association consensus paper on the management of pediatric stroke and the latest information on new

diagnostic techniques the book offers a comprehensive evidence based review of current thinking and practice in this challenging field Covering occurrence etiology diagnosis and treatment this integrated state of the art text is essential reading for anyone involved in the care of children with suspected stroke or other cerebrovascular pathologies The new Third Edition of this classic work has been completely updated and rewritten to reflect current science and practice An extensive entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents anticoagulants and thrombolytic agents in children and also includes a section on neurorehabilitation after stroke An expanded and thoroughly updated diagnostic approach chapter covers the latest applications in stroke imaging such as computed tomography angiography diffusion weighted MRI and perfusion CT A seminal chapter on epidemiology of childhood stroke introduces the more important stroke risk factors in the context of their influence on overall pediatric stroke incidence

Design and Optimization of Thermal Systems Yogesh Jaluria,2007-12-13 Thermal systems play an increasingly symbiotic role

alongside mechanical systems in varied applications spanning materials processing energy conversion pollution aerospace and automobiles Responding to the need for a flexible yet systematic approach to designing thermal systems across such diverse fields Design and Optimization of Thermal

Financial Modelling Joerg Kienitz,Daniel Wetterau,2012-09-10 Financial modelling Theory Implementation and Practice with MATLAB Source J rg Kienitz and Daniel Wetterau Financial Modelling Theory Implementation and Practice with MATLAB Source is a unique combination of quantitative techniques the application to financial problems and programming using Matlab The book enables the reader to model design and implement a wide range of financial models for derivatives pricing and asset allocation providing practitioners with complete financial modelling workflow from model choice deriving prices and Greeks using semi analytic and simulation techniques and calibration even for exotic options The book is split into three parts The first part considers financial markets in general and looks at the complex models needed to handle observed structures reviewing models based on diffusions including stochastic local volatility models and pure jump processes It shows the possible risk neutral densities implied volatility surfaces option pricing and typical paths for a variety of models including SABR Heston Bates Bates Hull White Displaced Heston or stochastic volatility versions of Variance Gamma respectively Normal Inverse Gaussian models and finally multi dimensional models The stochastic local volatility Libor market model with time dependent parameters is considered and as an application how to price and risk manage CMS spread products is demonstrated The second part of the book deals with numerical methods which enables the reader to use the models of the first part for pricing and risk management covering methods based on direct integration and Fourier transforms and detailing the implementation of the COS CONV Carr Madan method or Fourier Space Time Stepping This is applied to pricing of European Bermudan and exotic options as well as the calculation of the Greeks The Monte Carlo simulation technique is outlined and bridge sampling is discussed in a Gaussian setting and for Levy processes Computation of Greeks is covered using likelihood ratio methods and adjoint techniques A

chapter on state of the art optimization algorithms rounds up the toolkit for applying advanced mathematical models to financial problems and the last chapter in this section of the book also serves as an introduction to model risk The third part is devoted to the usage of Matlab introducing the software package by describing the basic functions applied for financial engineering The programming is approached from an object oriented perspective with examples to propose a framework for calibration hedging and the adjoint method for calculating Greeks in a Libor market model Source code used for producing the results and analysing the models is provided on the author s dedicated website <http://www.mathworks.de/matlabcentral/fileexchange/authors/246981>

Ischemic Stroke Therapeutics Bruce Ovbiagele, Tanya N. Turan, 2015-11-24 This complete resource captures state of the art strategies and the accelerated pace of discovery that is revolutionizing what is known about ischemic stroke and its treatment Therapeutics for acute management secondary prevention recovery rehabilitation asymptomatic cerebral ischemia and implementation of stroke systems of care are all discussed in this comprehensive yet practical guide Chapters are authored by leading academicians with extensive clinical practice experience from all over the world and feature the scientific evidence behind prevailing therapeutic strategies for managing ischemic cerebrovascular disease The specialist or general practitioner will gain critical knowledge in stroke management current clinical challenges and promising new therapies under investigation

Decision and Game Theory for Security Linda Bushnell, Radha Poovendran, Tamer Başar, 2018-10-22 The 28 revised full papers presented together with 8 short papers were carefully reviewed and selected from 44 submissions Among the topical areas covered were use of game theory control theory and mechanism design for security and privacy decision making for cybersecurity and security requirements engineering security and privacy for the Internet of Things cyber physical systems cloud computing resilient control systems and critical infrastructure pricing economic incentives security investments and cyber insurance for dependable and secure systems risk assessment and security risk management security and privacy of wireless and mobile communications including user location privacy sociotechnological and behavioral approaches to security deceptive technologies in cybersecurity and privacy empirical and experimental studies with game control or optimization theory based analysis for security and privacy and adversarial machine learning and crowdsourcing and the role of artificial intelligence in system security

Taxing Choices Rebecca Johnson, 2002 In the early 1990s lawyer Beth Symes brought an equality challenge against the Canadian Income Tax Act arguing that her childcare costs were a business expense The case ignited public controversy Was Symes disadvantaged on the basis of gender or unfairly privileged on the basis of class This book seeks answers to those questions through close attention to the Symes case where class and gender interests clashed over the tax treatment of childcare It looks at the history of legislative and litigative struggles the dynamics of courtroom discourse and the influence of broad social debates about children and the public private divide It reveals how frequently the rhetoric of choice responsibility and selfishness is invoked in response to women s attempts to place issues of childcare on the public

agenda Taxing Choices will interest all those who seek to use the law as a tool of social justice but are troubled by the perils posed by competing interests and conflicts involving race class gender and ability

Parallel Algorithms in Computational Science and Engineering Ananth Grama,Ahmed H. Sameh,2020-07-06 This contributed volume highlights two areas of fundamental interest in high performance computing core algorithms for important kernels and computationally demanding applications The first few chapters explore algorithms numerical techniques and their parallel formulations for a variety of kernels that arise in applications The rest of the volume focuses on state of the art applications from diverse domains By structuring the volume around these two areas it presents a comprehensive view of the application landscape for high performance computing while also enabling readers to develop new applications using the kernels Readers will learn how to choose the most suitable parallel algorithms for any given application ensuring that theory and practicality are clearly connected Applications using these techniques are illustrated in detail including Computational materials science and engineering Computational cardiovascular analysis Multiscale analysis of wind turbines and turbomachinery Weather forecasting Machine learning techniques Parallel Algorithms in Computational Science and Engineering will be an ideal reference for applied mathematicians engineers computer scientists and other researchers who utilize high performance computing in their work

Recognition of Excellence in Aging Research, Committee Report, Report of the Special Committee on Aging, United States Senate United States. Congress. Senate. Special Committee on Aging,2008

Advances in Neural Information Processing Systems 12 Sara A. Solla,Klaus-Robert Müller,Todd K. Leen,2000 The annual conference on Neural Information Processing Systems NIPS is the flagship conference on neural computation It draws preeminent academic researchers from around the world and is widely considered to be a showcase conference for new developments in network algorithms and architectures The broad range of interdisciplinary research areas represented includes computer science neuroscience statistics physics cognitive science and many branches of engineering including signal processing and control theory Only about 30 percent of the papers submitted are accepted for presentation at NIPS so the quality is exceptionally high These proceedings contain all of the papers that were presented

Pediatric Stroke and Cerebrovascular Disorders Warren D. Lo,Geoffrey L. Heyer,2011-10-18 The new third edition of Pediatric Stroke and Cerebrovascular Disorders provides a modern clinical approach to managing stroke and other cerebrovascular problems in infants children and adolescents Incorporating data from important clinical trials and case series recommendations from the American Heart Association evidence based paper on the management of pediatric stroke and the latest information on new diagnostic techniques the book offers a comprehensive analysis of the current thinking and practice by three physicians who have vast clinical experience in this challenging field The third edition of this classic work has been completely updated and rewritten to reflect current science and practice Covering occurrence etiology diagnosis and treatment this integrated state of the art text is essential reading for anyone involved in the care of children with suspected stroke or other cerebrovascular

abnormalities The third edition of this classic work has been completely updated and rewritten to reflect current science and practice An extensive entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents anticoagulants and thrombolytic agents in children and also includes a section on neurorehabilitation after stroke An expanded and thoroughly updated diagnostic approach chapter covers the latest applications in stroke imaging such as computed tomography angiography diffusion weighted MRI and perfusion CT The first chapter stresses the etiology and pathophysiology of childhood stroke as the basis for evaluations and treatment Features of Pediatric Stroke and Cerebrovascular Disorders Third Edition Include Comprehensive in scope detailed analysis of the pathogenesis diagnosis and treatment of cerebrovascular disorders in children with many evidence based management guidelines The third edition has been updated to include recommendations from the AHA consensus guidelines All chapters in the third edition have been revised and updated An extensive entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents anticoagulants and thrombolytic agents in children Stresses the etiology and pathophysiology of childhood stroke as the basis for evaluation and treatment Maintains the practical clinical flavor established in previous editions with numerous illustrations and useful suggestions for patient care Written by internationally known stroke experts Dr Roach chaired the AHA panel that produced the consensus guidelines on childhood stroke and Drs Lo and Heyer have published extensively on stroke and related topics Prediction and Simulation Methods for Geohazard Mitigation Fusao Oka,Akira Murakami,Sayuri Kimoto,2009-05-07 The last decades have shown a remarkable increase in the number of heavy rains typhoons and earthquakes These natural phenomena are the main causes for geohazards As a result the mitigation of geohazards has become a major research topic in geotechnical engineering and in recent years simulation based predictions and monitoring tools have been

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