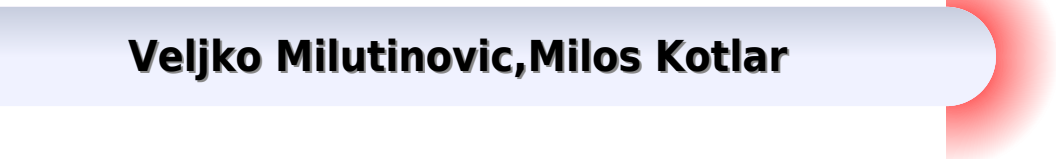


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biomedicine physics simulation and business The mapping of additional algorithms onto the DataFlow architecture is also covered in the following Springer titles from the same team DataFlow Supercomputing Essentials Research Development and Education DataFlow Supercomputing Essentials Algorithms Applications and Implementations and Guide to DataFlow Supercomputing Topics and Features introduces a novel method of graph partitioning for large graphs involving the construction of a skeleton graph describes a cloud supported web based integrated development environment that can develop and run programs without DataFlow hardware owned by the user showcases a new approach for the calculation of the extrema of functions in one dimension by implementing the Golden Section Search algorithm reviews algorithms for a DataFlow architecture that uses matrices and vectors as the underlying data structure presents an algorithm for spherical code design based on the variable repulsion force method discusses the implementation of a face recognition application using the DataFlow paradigm proposes a method for region of interest based image segmentation of mammogram images on high performance reconfigurable DataFlow computers surveys a diverse range of DataFlow applications in physics simulations and investigates a DataFlow implementation of a Bitcoin mining algorithm This unique volume will prove a valuable reference for researchers and programmers of DataFlow computing and supercomputing in general Graduate and advanced undergraduate students will also find that the book serves as an ideal supplementary text for courses on Data Mining Microprocessor Systems and VLSI Systems Smart Card Research and Advanced Applications Kerstin Lemke-Rust, Michael Tunstall, 2017-03-05 This book constitutes the thoroughly refereed post conference proceedings of the 15th International Conference on Smart Card Research and Advanced Applications CARDIS 2016 held in Cannes France in November 2016 The 15 revised full papers presented in this book were carefully reviewed and selected from 29 submissions The focus of the conference was on all aspects of the design development deployment validation and application of smart cards or smart personal devices *Manual Skills, Handedness, and the Organization of Language in the Brain* Gregory Króliczak, Claudia L. R. Gonzalez, David P. Carey, 2019-08-15 Whereas the cerebral specialization for skilled manual actions praxis seems closely linked to dominance for language with both functions left lateralized in the vast majority of humans the neural correlates of hand preference are still less well understood Indeed as a combination of inherited and non inherited genomic factors i e direct parental and concealed environmental contributions handedness in contrast to language is less likely to have strong genetic indices and clearly lateralized functional organization What about eye dominance unimanual and bimanual object manipulation and gestures or attentional systems and the related egocentric or allocentric coding of space Are these different categories functionally and structurally interconnected Is their development and contribution to task performance linked even if they are differently lateralized How are they connected to language learning or its development In trying to understand these relationships and their neural underpinnings we obtain a new insight into fundamental human behaviors which depend either on shared or distinct cerebral resources that must nevertheless be harmonized by higher

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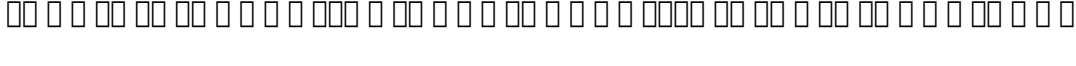
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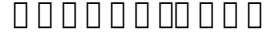
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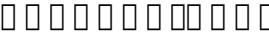
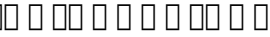
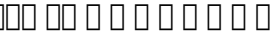
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web 1 description of diffusion and osmosis a water solution that contains nutrients wastes gases salts and other substances surrounds cells this is the external environment of a cell the cell s outer surface of the plasma membrane is in contact with this external environment while the inner surface is in contact with the cytoplasm

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web facilitated diffusion moves substances down their concentration gradient using the cell s energy the spreading of something more wildly diffusion equilibrium a state in which opposing forces or influences are balanced osmosis a process in which molecules of a solvent tend to pass through membrane