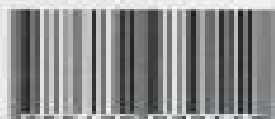


Algoritmos Evolutivos

Un enfoque práctico

Los algoritmos evolutivos constituyen una técnica general de resolución de problemas de búsqueda y optimización inspirada en la teoría de la evolución de las especies y la selección natural. Estos algoritmos permiten abordar problemas complejos que surgen en las ingenierías y los campos científicos: problemas de planificación de tareas, horarios, tráfico aéreo y ferroviario, búsqueda de caminos óptimos, optimización de funciones, etc. Con este libro hemos querido aportar un enfoque práctico al estudio de los algoritmos evolutivos, que es fundamental para aplicarlos a problemas reales de cualquier disciplina del conocimiento. El libro tiene dos partes: la primera, en la que se describen los algoritmos; y la segunda en la que se proponen numerosos proyectos y se resuelven empleando estas técnicas.

Los algoritmos evolutivos presentan una estructura general que puede aplicarse a los distintos problemas, facilitando así enormemente las tareas de diseño e implementación. El único requisito de un usuario que desee aplicar esta técnica para resolver un problema concreto es saber programar en cualquier lenguaje de propósito general en el que codificaría el algoritmo evolutivo. Sin embargo, para obtener buenos resultados con estos algoritmos es necesario conocerlos con detalle, ya que dentro del esquema general de un algoritmo evolutivo hay que elegir múltiples componentes y parámetros, de los que va a depender la calidad del resultado y la eficiencia del algoritmo. El conocimiento de la elección más adecuada en cada caso, que a menudo depende de detalles sutiles del problema considerado, sólo se consigue con la práctica. Esta idea nos ha llevado a proponer este libro, que consideramos adecuado para cualquier ingeniero o licenciado con conocimientos básicos de programación.



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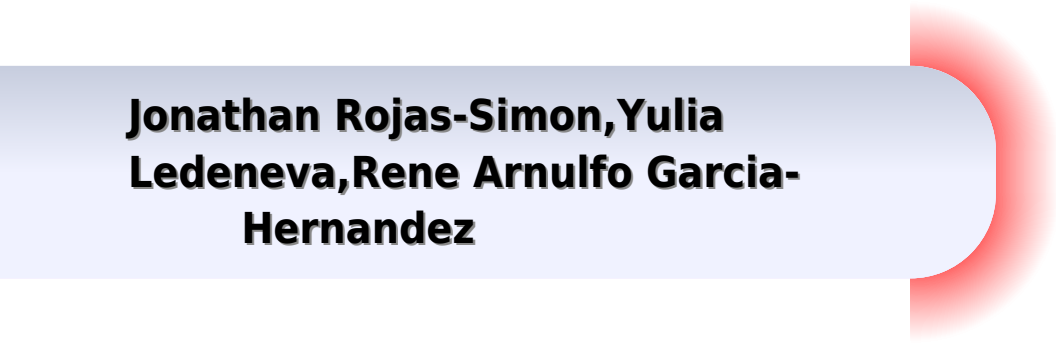
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Algoritmos Evolutivos Un Enfoque Practico

**Jonathan Rojas-Simon, Yulia
Ledeneva, Rene Arnulfo Garcia-
Hernandez**



Algoritmos Evolutivos Un Enfoque Practico:

Algoritmos evolutivos : un enfoque práctico Carlos Cervigon Ruckaüer,2009-01 Los algoritmos evolutivos constituyen una técnica general de resolución de problemas de búsqueda y optimización inspirada en la teoría de la evolución de las especies y la selección natural Estos algoritmos permiten abordar problemas complejos que surgen en las ingenierías y los campos científicos problemas de planificación de tareas horarios tráfico aéreo y ferroviario búsqueda de caminos ptimos optimización de funciones etc Con este libro hemos querido aportar un enfoque práctico al estudio de los algoritmos evolutivos que es fundamental para aplicarlos a problemas reales de cualquier disciplina del conocimiento El libro tiene dos partes la primera en la que se describen los algoritmos y la segunda en la que se proponen numerosos proyectos y se resuelven empleando estas técnicas Los algoritmos evolutivos presentan una estructura general que puede aplicarse a los distintos problemas facilitando as enormemente las tareas de diseño e implementación El único requisito de un usuario que desee aplicar esta técnica para resolver un problema concreto es saber programar en cualquier lenguaje de propósito general en el que codificar a el algoritmo evolutivo Sin embargo para obtener buenos resultados con estos algoritmos es necesario conocerlos con detalle ya que dentro del esquema general de un algoritmo evolutivo hay que elegir múltiples componentes y parámetros de los que va a depender la calidad del resultado y la eficiencia del algoritmo El conocimiento de la elección más adecuada en cada caso que a menudo depende de detalles sutiles del problema considerado solo se consigue con la práctica Esta idea nos ha llevado a proponer este libro que consideramos adecuado para cualquier ingeniero o licenciado con conocimientos básicos de programación

Algoritmos evolutivos Lourdes Araujo,Carlos Cervigón,2009 **Metaheurísticas** Abraham Duarte Muñoz,2007-05-08 La presente obra tiene como objetivo recoger una visión resumida aunque completa del estado de la cuestión en el ámbito de las metaheurísticas En ella se ha prestado especial atención a la presentación didáctica de los contenidos de forma que sean entendibles para lectores de formación científica con conocimientos básicos de algoritmia y programación Por lo tanto este libro está dirigido tanto a aquellos que cursan estudios de postgrado como a los que necesitan resolver problemas de optimización en el ejercicio de su profesión **Human-Computer Interaction** Vanessa Agredo-Delgado,Pablo H. Ruiz,Klinge Orlando Villalba-Condori,2021-01-04 This book constitutes the thoroughly refereed proceedings of the 6th Iberoamerican Workshop on Human Computer Interaction HCI Collab 2020 held in Arequipa Peru in September 2020 The 28 full and 3 short papers presented in this volume were carefully reviewed and selected from 128 submissions The papers deal with topics such as emotional interfaces usability video games computational thinking collaborative systems IoT software engineering ICT in education augmented and mixed virtual reality for education gamification emotional Interfaces adaptive instruction systems accessibility use of video games in education artificial Intelligence in HCI among others The workshop was held virtually due to the COVID 19 pandemic **Soft Computing for**

Intelligent Control and Mobile Robotics Oscar Castillo,Witold Pedrycz,2010-10-05 This book describes in a detailed

fashion the application of hybrid intelligent systems using soft computing techniques for intelligent control and mobile robotics Soft Computing SC consists of several intelligent computing paradigms including fuzzy logic neural networks and bio inspired optimization algorithms which can be used to produce powerful hybrid intelligent systems The prudent combination of SC techniques can produce powerful hybrid intelligent systems that are capable of solving real world problems This is illustrated in this book with a wide range of applications with particular emphasis in intelligent control and mobile robotics The book is organized in five main parts which contain a group of papers around a similar subject The first part consists of papers with the main theme of theory and algorithms which are basically papers that propose new models and concepts which can be the basis for achieving intelligent control and mobile robotics The second part contains papers with the main theme of intelligent control which are basically papers using bio inspired techniques like evolutionary algorithms and neural networks for achieving intelligent control of non linear plants The third part contains papers with the theme of optimization of fuzzy controllers which basically consider the application of bio inspired optimization methods to automate the design process of optimal type 1 and type 2 fuzzy controllers The fourth part contains papers that deal with the application of SC techniques in times series prediction and intelligent agents The fifth part contains papers with the theme of computer vision and robotics which are papers considering soft computing methods for applications related to vision and robotics

Evaluation of Text Summaries Based on Linear Optimization of Content Metrics Jonathan Rojas-Simon,Yulia Ledeneva,Rene Arnulfo Garcia-Hernandez,2022-08-18 This book provides a comprehensive discussion and new insights about linear optimization of content metrics to improve the automatic Evaluation of Text Summaries ETS The reader is first introduced to the background and fundamentals of the ETS Afterward state of the art evaluation methods that require or do not require human references are described Based on how linear optimization has improved other natural language processing tasks we developed a new methodology based on genetic algorithms that optimize content metrics linearly Under this optimization we propose SECO SEVA as an automatic evaluation metric available for research purposes Finally the text finishes with a consideration of directions in which automatic evaluation could be improved in the future The information provided in this book is self contained Therefore the reader does not require an exhaustive background in this area Moreover we consider this book the first one that deals with the ETS in depth

Desarrollo de Videojuegos: Un Enfoque Práctico. Vol 4: Desarrollo de Componentes Varios,2016-06-01 El objetivo de este cuarto volumen es profundizar en técnicas específicas vinculadas al desarrollo de videojuegos como por ejemplo el uso de técnicas de Inteligencia Artificial o la programación multijugador en red Para ello una de las principales metas es la de complementar la visión general de la arquitectura de un motor de juegos con cuestiones específicas que resultan fundamentales para su desarrollo Dentro del contexto de la Inteligencia Artificial en este módulo se estudian técnicas fundamentales como la Lógica Difusa o los algoritmos genéticos entre otras Asimismo se realiza una discusión del diseño orientado a agentes como pilar esencial en el desarrollo del

componente inteligente de un videojuego En la parte relativa al juego multijugador se exploran las posibilidades que ofrecen los sockets y posteriormente se discute cómo el uso de herramientas de más alto nivel como los middlewares de comunicaciones pueden contribuir a facilitar el desarrollo del módulo de networking Finalmente este módulo también contempla aspectos relativos a la edición de audio la gestión de video y la importancia de la integración de nuevos dispositivos de interacción En el contexto del desarrollo de videojuegos técnicas como la visión por computador o la realidad aumentada pueden contribuir a mejorar la experiencia del jugador

Algoritmos Genéticos con Python Daniel Gutiérrez

Reina, Alejandro Tapia Córdoba, Alvaro Rodríguez del Nozal, 2020-08-03 Desde su aparición en la década de los 60 los algoritmos genéticos han ido ganando popularidad gracias al frenético crecimiento de la capacidad computacional en los últimos años Finalmente se han abierto camino en el ámbito de la ingeniería como una de las herramientas más prometedoras para resolver problemas de gran complejidad inabundables desde los enfoques clásicos de la ingeniería Los algoritmos genéticos son estrategias de resolución de problemas de optimización basados en la teoría de la selección natural de Darwin mediante la cual aquellos individuos más aptos para sobrevivir tienen una mayor probabilidad de crear descendencia y transmitir su información genética Partiendo de esta base son muchas las propuestas que se han desarrollado para abordar una gran cantidad de problemas de diferentes áreas de la ingeniería En este libro le proponemos adentrarse en el mundo de los algoritmos genéticos utilizando Python uno de los lenguajes de programación más populares en la actualidad y con más crecimiento durante los últimos años Los contenidos del libro se han diseñado para que sean sencillos concisos y fáciles de implementar con ejemplos directos de aplicación para que pueda practicar desde la primera página Con este libro aprender a Entender la naturaleza y el funcionamiento de los algoritmos genéticos comprendiendo las diferentes operaciones y procesos que lo componen Conocer las diferentes implementaciones de los algoritmos genéticos de mayor relevancia así como identificar las ventajas e inconvenientes de cada uno para determinar su potencial para resolver un determinado problema Conocer a fondo y utilizar los diferentes operadores selección mutación y cruce que la librería deap pone a su disposición Desarrollar un algoritmo genético desde cero en Python y utilizarlo para resolver sus propios problemas de ingeniería Conocer y estudiar aplicaciones de relevancia de algoritmos genéticos en el ámbito de la ingeniería tales como la gestión del despacho económico el diseño de plantas hidroeléctricas o la disposición de sensores inalámbricos

Actas de la XVII Conferencia de la Asociación Española para la Inteligencia Artificial Luaces, Oscar, Herrera, Francisco, Gámez, José A., Martínez, Luis, Barrenechea, Edurne, Riquelme, José, Troncoso, Alicia, Baruque, Bruno, Galar, Mikel, Quintián, Héctor, Corchado, Emilio, 2020-07-21 Este volumen contiene los artículos que fueron seleccionados para su presentación en la XVI Multiconferencia CAEPIA Conferencia de la Asociación Española para la Inteligencia Artificial 2016 celebrada en Salamanca del 14 al 16 de Septiembre de 2016 CAEPIA está conformada por los siguientes Congresos Federados XI Congreso Español de Metaheurísticas Algoritmos Evolutivos y Bioinspirados MAEB 2016 VI Simposio sobre Lógica Difusa y Soft

Computing LODISCO 2016 VIII Simposio Teoría y Aplicaciones de Minería de Datos TAMIDA 2016 III Jornadas de Fusión de la Información y ensembles FINO 2016 Este volumen contiene los 5 artículos seleccionados por CAEPIA los 43 seleccionados por MAEB los 21 seleccionados por LODISCO los 23 seleccionados por TAMIDA y los 4 de FINO El objetivo de todos estos Congresos Federados es proporcionar a los investigadores en Inteligencia Artificial un foro en el que intercambiar ideas y opiniones y avanzar en la construcción de una comunidad de Inteligencia Artificial en España amplia plural y abierta Con el fin de promover la participación de estudiantes de doctorado en la Multiconferencia y su interacción con investigadores senior de los distintos campos involucrados se realizó una sesión de la Multiconferencia denominada Doctoral Consortium transversal a todas las conferencias participantes Los trabajos predoctorales presentados fueron valorados por un Comité de expertos otorgando un premio al mejor proyecto de tesis doctoral Se reconocieron los tres mejores proyectos presentados con diplomas acreditativos emitidos por AEPIA y premios para el primer y segundo mejor proyecto También de forma transversal la Multiconferencia incluye al igual que en anteriores años una sesión de trabajos publicados recientemente en revistas y foros de reconocido prestigio que se denomina Key Works Estos trabajos seleccionados por un Comité formado por 3 expertos se presentan en varias sesiones organizadas en varias temáticas concordantes con las áreas específicas de trabajo de los Congresos Federados integrantes de la Multiconferencia Por otra parte y con el objetivo de promover la presencia de las mujeres en la investigación en Inteligencia Artificial como en ediciones anteriores se concedió el premio Frances Allen en CAEPIA 2016 que se dedica a las dos mejores tesis doctorales en Inteligencia Artificial presentadas por una mujer durante los últimos dos años Por último con el objetivo de poner de relieve la importancia práctica de la Inteligencia Artificial y debido al importante auge que en los últimos años está experimentando el desarrollo de aplicaciones para dispositivos móviles APPs en CAEPIA 2016 se convocó un concurso de desarrollo de APPs basadas en técnicas de Inteligencia Artificial CAEPIA 2016 disfrutó de extraordinarias ponencias impartidas por distinguidos conferenciantes invitados Serafín Moral Universidad de Granada España Xin Yao Universidad de Birmingham Reino Unido Enrique Alba Torres Universidad de Málaga España Sancho Salcedo Sanz Universidad de Alcalá de Henares España Richard Benjamins BI DATA Telefónica España y Alberto Bugarín Diz Universidad de Santiago de Compostela Los editores desean agradecer a todos los que contribuyeron a CAEPIA 2016 autores miembros de los comités científicos revisores adicionales conferenciantes invitados etc Por último gracias al Comité Organizador los patrocinadores locales BISITE y la Universidad de Salamanca AEPIA y Portuguese Association for Artificial Intelligence por su incondicional apoyo

Robótica evolutiva Fouad Sabry, 2024-12-16 Robótica evolutiva Presenta los principios básicos y la evolución de los sistemas robóticos autónomos haciendo hincapié en cómo los robots pueden evolucionar a través de prueba y error de manera similar a la selección natural Computación evolutiva Explica las técnicas computacionales inspiradas en la biología evolutiva como los algoritmos genéticos que se utilizan para resolver problemas complejos de optimización en robótica Neuroevolución de topologías aumentadas Analiza un enfoque innovador en el que las redes

neuronales evolucionan incluida la estructura y los pesos para optimizar el rendimiento robótico Neuroevolución Explora el proceso de evolución de las redes neuronales artificiales para mejorar las capacidades de los robots centrándose en su aprendizaje y adaptabilidad Hardware evolutivo Ofrece una descripción general de los sistemas de hardware que evolucionan en respuesta a las condiciones ambientales cambiantes incorporando conceptos evolutivos a los sistemas robóticos físicos Robot móvil Sbot Examina el robot móvil Sbot un ejemplo clave de cómo se han aplicado las técnicas de robótica evolutiva a las plataformas robóticas del mundo real Dario Floreano Destaca las contribuciones de Dario Floreano un investigador líder en robótica evolutiva cuyo trabajo ha dado forma significativa al campo Inman Harvey Explora la investigación de Inman Harvey y sus enfoques innovadores en la integración de algoritmos evolutivos con sistemas robóticos Phil Husbands Se centra en el trabajo de Phil Husbands en el área del comportamiento de robots autónomos y sus contribuciones a la aplicación de métodos evolutivos en robótica Stefano Nolfi Investiga las contribuciones de Stefano Nolfi a la neuroevolución y su trabajo en la creación de robots que aprenden y evolucionan en entornos dinámicos Neurorrobótica Abarca el apasionante campo de la neurorrobótica donde la robótica y la neurociencia convergen para desarrollar robots que pueden imitar la inteligencia biológica Desarrollo artificial Describe el campo emergente del desarrollo artificial donde se aplican principios evolutivos y de desarrollo para crear sistemas robóticos más complejos y adaptativos HyperNEAT Presenta el marco HyperNEAT un método avanzado para desarrollar redes neuronales que generan estructuras y comportamientos robóticos complejos Robótica morfogenética Se centra en la robótica morfogenética en la que los robots se autoorganizan y adaptan sus formas físicas a través de procesos evolutivos Robótica evolutiva del desarrollo Examina cómo la combinación de algoritmos evolutivos con la robótica del desarrollo conduce a la creación de robots que crecen y aprenden con el tiempo Dave Cliff Científico informático Analiza el trabajo de Dave Cliff cuya investigación en vida artificial y algoritmos evolutivos ha influido en el desarrollo de robots adaptativos Vida artificial Explora la relación entre la vida artificial y la robótica y analiza cómo la creación de un comportamiento realista en los robots puede conducir a sistemas más inteligentes Jordan Pollack Destaca el trabajo de Jordan Pollack en evolución artificial en particular en relación con el desarrollo de sistemas que imitan los procesos naturales para mejorar el rendimiento robótico Sabine Hauert se centra en las contribuciones de Sabine Hauert a los sistemas multirrobot y en cómo los principios evolutivos pueden mejorar el comportamiento colaborativo de los robots Pavan Ramdya explora el trabajo de Pavan Ramdya cuya investigación en robótica y neurobiología integra el estudio del movimiento y el comportamiento en robots autónomos

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