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TransPerfect Life Sciences, a leading provider of technologies and services to support clinical trials and product development for the biopharmaceutical industry, today announced the hiring of Kaarin ...

TransPerfect Life Sciences Welcomes Industry Veteran Kaarin Gordon

He has earned a bachelor's degree in biochemistry and an MBA from M.S.U., and is also registered commodity trading advisor (CTA). Gordon Scott ... Successful optimization of the return versus

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...

Efficient Frontier

The withdrawal of metaldehyde means growers will soon only have ferric phosphate slug pellets to count on when managing this devastating pest. However, ...

4 slug pellet myths busted for better control

The Putnam County Commission gave unanimous approval Tuesday to a resolution calling for a stand against Critical Race Theory and the denial of any public funding toward its teaching. Commission ...

Putnam Commission approves resolution against Critical Race

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Theory

States and districts have almost \$122 billion coming their way from the American Recovery Program's Elementary and Secondary School Emergency Relief (ARP ESSER) fund. Decisions on how to spend the ...

How to Decide How to Spend Elementary and Secondary School Relief Funds

Cincinnati Insurance Co. pushed back on a Georgia dental practice's Eleventh Circuit appeal of its pandemic coverage suit, saying the clinic misinterpreted its policy and failed to show physical loss ...

Dentists' Virus Coverage Suit Misreads Policy, 11th Circ. Told
In truth, the process may have started as far back as 2017 when

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Standard Industries named Jim Schnepfer the President of GAF and he set the company on a journey towards more agile and lean ways of ...

Making Space For Innovation: Three Lessons For Manufacturing Leaders

Residents in this Magical Town are quietly experimenting with regular, small doses of hallucinogens like psilocybin as alternative medicine.

San Miguel de Allende: a new hotspot for microdosing in Mexico
Campaign Budget Optimization (CBO) leverages Facebook's machine learning to serve ads ... and Facebook will (in theory) serve it to the ad sets with the most potential, resulting in ad set ...

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How to Set the Budget for Your Facebook Ad

A supporter of US President Donald Trump holds a Confederate flag outside the Senate Chamber during a protest after breaching the US Capitol in Washington, DC, January 6, 2021. - The demonstrators ...

Historian Annette Gordon-Reed: Jan. 6 was a "turning point" in American history

Supports Hamdan Bin Mohammed Smart University's (HBMSU) strategic goal to facilitate building health, bringing occupants safely back to campus ...

Honeywell extends collaboration with Hamdan Bin Mohammed

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smart university by deploying healthy buildings solutions to enhance occupant wellbeing

Tom Cotton and former Secretary of State Mike Pompeo, and discredited defectors like Yan Li-Meng, there were also many reports at the time disputing and dismissing their claims of a lab leak as a ...

Though Evidence Is Lacking, US Media Give New Respect to Lab Leak Theory

"The lab theory is retailed by the same political faction that believes all kinds of preposterous notions, whether the QAnon hallucination, or an Italian satellite changing the results of the U.S.

The Coronavirus Lab Leak Theory: Not Disproven, But Unlikely

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Formula E, the electric car racing series, is back in Brooklyn this coming weekend. It's the series' first time back in North America since 2019, having skipped last year for obvious reasons. COVID-19 ...

NYC ePrix: It's time for Formula E's annual visit to America
Joe and Jill Biden visit a photo wall, the 'Surfside Wall of Hope & Memorial', near the partially collapsed condo building on July 1.
Photo: Saul Loeb/AFP via President Biden spoke Thursday evening
...

Friday's politics & policy stories

Team-building, specialization, and collaboration are key strengths in Gordon's work. Most recently, she led the development of the

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life sciences practice ... will be on optimization and ...

"In general, this presentation demonstrates the interrelationships between the various facets of optimization. These aspects range from the differential calculus through direct search and mathematical programming techniques to the more specialized game theory and decision theory required when competition is present. The integrated approach is seen, for instance, in the discussion of multidimensional numerical search techniques . Each search may be characterized by the two essential features of a distance and direction of movement. These, together with a further

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classification based on whether or not the gradient is required, have provided the framework within which search methods are presented. In this context the similarities and differences, the advantages and disadvantages, and the range of applicabilities and failures of all search techniques can be clearly understood. Thus such well-known search methods as Rosen's gradient projection and Zoutendijk's feasible directions are seen to stem from the same basic concept, namely, local linearization. A second example of the interrelationship of methods is the evolution from the Lagrangian formulation of such diverse techniques as the so-called discrete maximum principle, the maximum principle of Pontryagin, duals in linear problems, the Kuhn-Tucker conditions, steepest ascent, the gradient projection, and other important techniques."--Preface.

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The brain-like architecture of artificial neural networks makes them ideal for tackling problems that are too difficult for conventional architectures, specifically problems that involve pattern recognition or other perceptual tasks. *Neuro-Computers: Optimization Based Learning* provides an intermediate-level exposition of the exciting world of neuro-computers. It presents the importance of neuro-computing to artificial intelligence, giving historical background and present-day implementation options. The book demonstrates the superiority of the adaptive search strategy over conventional fixed parameter searches performed by backpropagation algorithms. It then explores global optimization strategy and presents genetic algorithms as viable methods to train neuro computers on non-trivial problems. This self-contained volume is delivered in a format that is suitable for graduate students, as well as researchers who

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want to begin work in neuro-computing or related artificial intelligence applications.

This is a rich and exciting collection of examples and applications in mathematical modelling. There is broad variety, balance and highly motivating material and most of this assumes minimal mathematical training.

From concept development to final production, this comprehensive text thoroughly examines the design, prototyping, and fabrication of engineering products and emphasizes modern developments in system modeling, analysis, and automatic control. This reference details various management strategies, design methodologies, traditional production technique

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Includes special issues: The Professional series in the management sciences.

This book is the first easy-to-read text on nonsmooth optimization (NSO, not necessarily differentiable optimization). Solving these kinds of problems plays a critical role in many industrial applications and real-world modeling systems, for example in the context of image denoising, optimal control, neural network training, data mining, economics and computational chemistry and physics. The book covers both the theory and the numerical methods used in NSO and provide an overview of different problems arising in the field. It is organized into three parts: 1. convex and nonconvex analysis and the theory of NSO; 2. test

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problems and practical applications; 3. a guide to NSO software. The book is ideal for anyone teaching or attending NSO courses. As an accessible introduction to the field, it is also well suited as an independent learning guide for practitioners already familiar with the basics of optimization.