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New Science and Technology Journals

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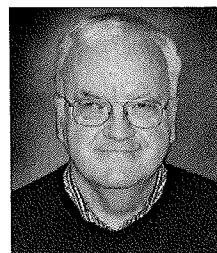
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New Science and Technology Journals

Earl Mounts



Arabian Journal of Geosciences. 1866-7511. Springer. v.1, 2008. 4/year. \$226.40. <http://www.springer.com/earth+sciences/journal/12517>

The *Arabian Journal of Geosciences* is the official journal of the Saudi Society for Geosciences and publishes peer-reviewed original and review articles on the entire range of earth science themes. The articles focus on, but are not limited to those that have regional significance to the Middle East and northern Africa. Key topics include geology, hydrogeology, earth system science, petroleum sciences, geophysics, seismology and crustal structures, tectonics, sedimentology, paleontology, metamorphic and igneous petrology, natural hazards, environmental sciences and sustainable development, geoarchaeology, geomorphology, paleo-environment studies, oceanography, atmospheric sciences, GIS and remote sensing, geodesy, mineralogy, volcanology, geochemistry, and metallogenesis.

Canadian Air Force Journal, Revue de la Force aérienne du Canada. 1916-7032. v.1, 2008. 4/year. http://www.airforce.forces.gc.ca/CFAWC/eLibrary/Journal_f.asp

The *Canadian Air Force Journal* is the official publication of the Chief of the Air Staff and is a forum for discussing concepts, issues and ideas that are both crucial and central to aerospace power. The journal is dedicated to disseminating the ideas and opinions of not only Air Force personnel, but also those civilians who have an interest in issues of aerospace power. Articles cover the scope of Air Force doctrine, training, leadership, lessons learned, and Air Force operations: past, present or future. The Journal serves as a vehicle for the continuing education and professional development of all ranks and personnel in the Air Force, as well as members from other environments, employees of government agencies, and academia concerned with Air Force affairs.

Carbon Capture Journal. 1757-1995. Marsh Wall. no.1, 2008. 6/year. £195.00. <http://www.carboncapturejournal.com/index.php>

Carbon Capture Journal covers developments in industrial scale carbon capture and geological

storage technology, with news about the major projects and developments in government policy. Articles in the current issue include "Shell Going Underground with Greenhouse Gases," "Carbon Capture Cannot Be Rushed," "Norway Launches Major CO₂ Capture Research Program," "CO₂ Injection Begins in DOE New Mexico Project," and "Solvent Degradation in CO₂ Capture Process from Power Plant Flue Gas." The journal is produced by the team behind Digital Energy Journal, one of the world's leading magazines and news services for information technology in the oil and gas industry.

Computational Science and Discovery (CSD). 1749-4680. IOP Publishing. v.1, 2008. <http://www.iop.org/EJ/journal/CSD>

CSD is an international, multidisciplinary journal focused on scientific advances and discovery through computational science in physics, chemistry, biology and applied science. The journal publishes original, peer-reviewed research that includes details of scientific advances and discoveries made, numerical algorithms used, and verification and validation of codes performed. Articles may also include specific details of the enabling technologies used—for example, in data management, networking and visualization—that made the scientific advances possible and that would not be covered in other publications with a different focus. The journal therefore offers a unique opportunity for researchers to publish all the important components of their enterprise, together with their scientific results. These guidelines provide an important measure of the quality of the scientific results presented, the essential information that will allow other groups to reproduce these results, and a prescription that will allow other groups to successfully perform the scientific workflow that enabled the scientific advances.

International Journal of E-Services and Mobile Applications. 1941-6288. IGI Global. v.1, 2009. \$495.00. <http://www.igi-global.com/journals/details.asp?id=7830>

International Journal of E-Services and Mobile Applications is an interdisciplinary journal

providing comprehensive coverage and understanding of all aspects of e-services, self-services and mobile communication from different fields including marketing, management, and MIS. Topics include conceptual foundations and theoretical frameworks of e-services; differences between services and e-services; transition from industrial to service and e-service economy; e-services and entrepreneurship; e-services and knowledge management and more.

International Journal of Material Forming. 1960-6206. Springer. v.1, 2008. 4/year. \$798.00. <http://www.springer.com/engineering/production+eng/journal/12289>

This official Journal of the European Scientific Association for Material Forming (ESAFORM) (www.esaform.org) establishes a platform of communication between engineers and scientists, covering all forming processes including sheet forming, bulk forming, powder forming, forming in melt or near-melt conditions (casting, injection, extrusion, film blowing), machining and cutting technologies, non-traditional processes such as abrasive jet, laser or ultrasonic abrasion, rapid prototyping and rapid tooling, microforming, hydroforming, thermoforming, and incremental forming. Other areas covered include tools design, manufacturing and control; process chains; virtual manufacturing; and quality assurance. Materials include metals, ceramics, polymers, fiber reinforced materials, composites, glass, wood, materials in food processing, biomaterials, nanomaterials, and shape memory alloys. Methods covered are micro-macro modelling, thermomechanical modelling, numerical simulation including new and advanced numerical strategies, experimental analysis, inverse identification, optimization, designing and monitoring of the processes and metal forming machines, wear and friction, mechanical behavior and formability.

International Journal of Social Robotics. 1875-4791. Springer. v.1, 2009. 4/year. <http://www.springer.com/engineering/journal/12369>

Social robotics is the study of robots that are able to interact and communicate between themselves, with humans, and with the environment, within the social and cultural structure attached to its role. The journal covers a broad spectrum of topics related to the latest technologies, new research results and developments in the area of social robotics on all levels, from developments in core enabling technologies to system

integration, aesthetic design, applications and social implications. The journal aims to provide an overview of the current state of the social robotics scene, how the field and related technologies are set to evolve in the future, and their impact on society at large. It will also provide researchers in diverse fields a consolidated volume with the latest developments and act as an international forum for all issues within the editorial focus. Topics of interest include affective and cognitive sciences for socially interactive robots; context awareness, expectation and intention understanding; design philosophies and socially appealing design methodologies; biomechanics, neuro-robotics, and biomedical robotics; learning, adaptation and evolution of intelligence; interaction and collaboration between robots, humans and environments; multimodal sensor fusion and communication; robot ethics in human society; interactive robotic arts; social acceptance and impact in the society; compliance, safety and compatibility in the design of social robots living with humans; models of human and animal social behavior as applied to robots; and applications in education, entertainment, gaming, and healthcare.

iPhone Life. OCLC: 244926073. Smartphone. com. v.1, 2008. 7/year. \$25.00. <http://www.pocketpcmag.com/iPhone/>

A new publication of SmartPhone.com, articles from the premier issue of *iPhone Life* include "Talk IT into Supporting Your iPhone," "Mobile Medical Apps," "10 Apps We'd Love To See," "MobileMe," "How to Rip Music CDs," "The Perfect Portable Movie Machine," "Day in the Life of an iPhone Power User," "A Rabbi's Mobile Assistant," and "Best Accessories."

Journal of Renewable and Sustainable Energy (JRSE). 1941-7012. American Institute of Physics. v.1, 2008. 6/year. <http://jrse.aip.org/>

JRSE is an interdisciplinary, peer-reviewed journal covering all areas of renewable and sustainable energy-related fields that apply to the physical science and engineering communities. As an electronic only web-based journal with rapid publication time, *JRSE* is responsive to the many new developments expected in this field. Topics covered include bioenergy – bioreactions and bioengineering; geothermal energy – geysers, heat pumps, and novel devices; marine and hydroelectric energy – waves, tides, and dams; nuclear energy – fission and fusion; solar energy

– photovoltaics and solar thermal converters; wind energy – turbines and electrical systems and controls; energy conversion – solid oxide and proton exchange membrane fuel cells and novel devices; energy efficient buildings – photovoltaics, solar thermal converters, and passive solar approaches; energy storage – hydrogen and batteries; power distribution – conventional and superconducting transmission, fluctuating loads, and controls; renewable energy resource assessment; and transportation – hydrogen, batteries, fuel cells, bioenergy, and vehicles.

Memetic Computing. 1865-9284. Springer. v.1, 2009. 4/year. \$716.40. <http://www.springer.com/engineering/journal/12293>

This journal is a vehicle for research in hybrid metaheuristics (including evolutionary hybrids) for optimization, control and design in continuous and discrete optimization domains. It seeks to dissolve the barriers separating metaheuristics, exact and approximation algorithms research and to bring forth a renewed impetus towards the investigation and understanding of promising new hybrid algorithmic technologies. *Memetic Computing* aspires to serve as a focal publication where the latest results in natural computation, artificial intelligence, machine learning, operational research and natural sciences (e.g., cognitive, animal and insect behavior) are fused together in novel ways. Specific topics include hybrid (parallel) metaheuristics such as tabu search, path relinking, scatter search, grasp methods, iterated local search, simulated annealing, variable neighborhood search, evolutionary algorithms, learning classifier systems, memetic algorithms, and cultural algorithms; approximate and exact algorithms for combinatorial and continuous optimisation; ant colony computing; swarm intelligence; evolutionary dynamics; artificial cultures in multi-agent systems, webbots and robots; constraint optimisation; machine learning and data mining; and artificial immune systems.

Water Quality, Exposure and Health. 1876-1658. Springer. v.1, 2009. 4/year. \$525.00. <http://www.springer.com/environment/water/journal/12403>

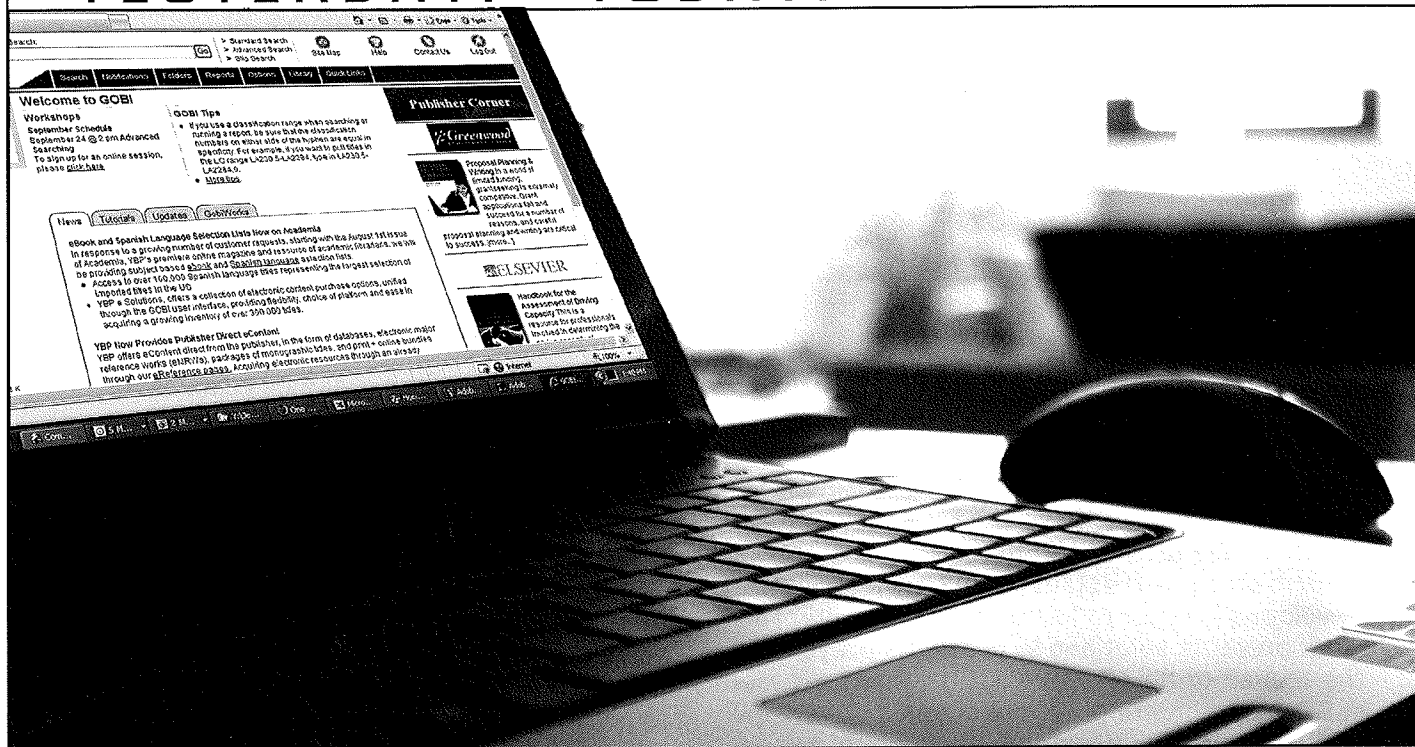
Water Quality, Exposure and Health is a multidisciplinary journal that focuses on the global human health consequences of exposure to water pollution in natural and engineered environments. The subject areas and scientific fields included

in the Journal are engineering; biogeochemical sciences; health sciences; exposure analysis and epidemiology; social sciences and public policy; mathematical, numerical and statistical methods; and experimental, data collection and data analysis methods. Research areas include health risk analysis of water pollution; methods of quantification and analysis of risk under uncertainty; aquatic biogeochemical processes in natural and engineered systems and health effects; statistical and stochastic analysis of water pollution, exposure and health data; endocrine disruptors, pathogens, microbes, chemicals and manufactured materials in the water phase and exposure health effects; biomarker exposure analysis and health outcome; exposure-dose reconstruction methods and applications; water pollution exposure monitoring and epidemiology; and systems management topics in water pollution, exposure and health.

World Digital Libraries. 0974-567X. v.1, 2008. 2/year. \$150.00. http://bookstore.teriin.org/journal_inside.php?material_id=477&qty=1

World Digital Libraries, an international peer-reviewed journal, publishes research papers that present original theoretical approaches as well as experimental case studies related to digital library developments, maintenance and dissemination of digital information focusing on research, and integration of knowledge at the interface of resources and development. Specific areas covered include theoretical and methodological issues that relate to the interrelationships among electronic resources management, digital preservation, multiple access, multilinguality, copyright issues, and security aspects; theoretical approaches as well as experimental case studies related to digital library development and maintenance; initiatives towards digitization through case studies; current developments across the globe; and dialogues between the scientific community and society at large. ❖

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