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Computer Networks Journal

Special Issue on
Architectures and Protocols for the Future Internet

The Internet architecture has been remarkably successful in allowing a planet-scale internetwork to form. However, the architecture has been losing its original simplicity and transparency as new classes of applications, business models, security mechanisms, scalability enablers and operational and management requirements have given rise to point solutions that extend the architecture without regard to its original design principles.

Consequently, the research community has been actively looking for new approaches to evolve or supersede the Internet architecture. Substantial academic efforts in Europe, the Americas and Asia, as well as within the vendor and network operator communities have resulted in promising proposals to address the limitations of the current Internet architecture.

This special issue of the Computer Networks Journal solicits original, high-quality papers that present, analyze and discuss revolutionary "clean slate" or evolutionary "dirty slate" Internet architectures, "future-proofing" improvements to current Internet protocols, especially at the internetworking, routing, transport and application layers, or new internetworking components that integrate into the existing architecture. Related topics, such as measurement studies or mathematical models that analyze and quantify Internet scalability issues, studies into architectural design principles that enable evolution, interworking technologies with the existing Internet, and others are also within the scope of the special issue.

Submission Format and Guidelines

Submissions should be clearly organized, written in excellent English and must describe original, complete research not published or currently under review by other journals or conferences. Substantially enhanced and extended versions of quality papers presented at conferences or workshops may be submitted with the differences to the previous version clearly described. All submissions will be peer reviewed. The guest editors reserve the right to reject submissions that are clearly out of scope or well below the expected quality for this special journal issue without further review.

Authors must prepare and format their submissions according to the "Guide for Authors" found at <http://www.elsevier.com/locate/comnet> and submit them online at <http://ees.elsevier.com/comnet/>, choosing the "Future Internet" as article type. Submissions must be in single-column format, single-spaced, use a font size of at least 11 points, and should not exceed 25 pages including all figures and references.

Important Dates

Manuscript due: May 17, 2010
Acceptance notification: Jul 16, 2010

Final paper revisions due: Aug 27, 2010

Publication date: Early 2011

Guest Editors

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