Persian Architectural Elements and Mosaic Designs in Traditional and Modern Structures and Mathematical Sculptures

Call for Papers: Special issue of the Nexus Network Journal www.nexusjournal.com

Guest Editor, Reza Sarhangi

Persians, integrated, influenced and were influenced by many cultures, including Greeks, Arabs, Turks, Mongols, Indians, and Chinese. Through centuries, they left numerous marks on the civilizations and cultures in a large part of the world that encompasses modern day Iran, Iraq, Turkey, Azerbaijan, Armenia, much of Central Asia, and India. Some marks to mention – which are the central focus of this issue – are architecture and mosaic designs, and their related mathematics.

Most scholars of the field believe that the tradition of geometric mosaic design was shaped during the establishment of Baghdad as the intellectual center of the time (8th to 9th centuries). Nevertheless, this tradition is rooted in pre-Islamic imperial Persian artistic tradition, the ancient Roman mosaics patterning and interlacing, Syrian art and culture, and the Coptic tradition of ancient Egypt. Many medieval buildings in a vast area in the East, which have been adorned by sophisticated geometric patterns, exhibit the devotion of the Persian craftsmen in the growth of the geometric design language. The inclusions of other artistic expressions such as miniature and tazhib in tiling designs used for elaborated structures such as erected buildings during the Safavid dynasty (16th to 18th centuries), completed a process that is known today as the Persian Traditional Mosaic Design.

Persian architectural elements are in harmony with their mosaic designs; together create a unique class of structures that inspire educators as well as practitioners of modern time.

Architects, designers, and mathematicians, especially practitioners in the field, are invited to submit articles in Persian architectural buildings, mosaic designs, and mathematical sculptures:

(1) Many surviving architectural structures from the past provide rich resources for today’s designers and mathematicians to analyze and reconstruct their elements and patterns.

(2) Many architects, mathematicians, and computer scientists, are creating building designs or sculptures, as artistic expressions or mathematical models used in educational fields. They may use today’s operating systems and technology but their works are heavily influenced by Persian traditional architectural designs.

For paper preparation, consult the submission guidelines:

http://www.nexusjournal.com/submission-guidelines/submission-guidelines.html. Submission does not guarantee publication; all submissions will be peer-reviewed before being accepted for publication. Reviews of appropriate books and exhibits are also welcome. Submissions should be prepared according to NNJ submission guidelines (http://www.nexusjournal.com/for-authors/submission-guidelines.html) and be uploaded to the NNJ Editorial Manager platform at www.editorialmanager/nenj/.

• Deadline for submissions for review: June 1, 2015.
• Notification of acceptance: September 1, 2015.
• Deadline for submission of final manuscript: November 1, 2015.

Founded in 1999, the Nexus Network Journal (NNJ) is a peer-reviewed journal for researchers, professionals and students engaged in the study of the application of mathematical principles to architectural design. Its goal is to present the broadest possible consideration of all aspects of the relationships between architecture and mathematics, including landscape architecture and urban design. Bibliographic Data – First published in 1999 by Kim Williams Books – Editor-in-Chief, Kim Williams, kwb@kimwilliamsbooks.com – Since 2007 co-published and distributed by Birkhäuser Verlag, Basel – From 2009 (vol. 11) published electronically and in print, 1 volume per year, 3 issues per volume – Format: 17 x 24 cm – ISSN 1590-5896 (print) – ISSN 1522-4600 (electronic) – Back volumes are available – electronic access for subscribers: http://www.springer.com/birkhauser/mathematics/journal/4

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