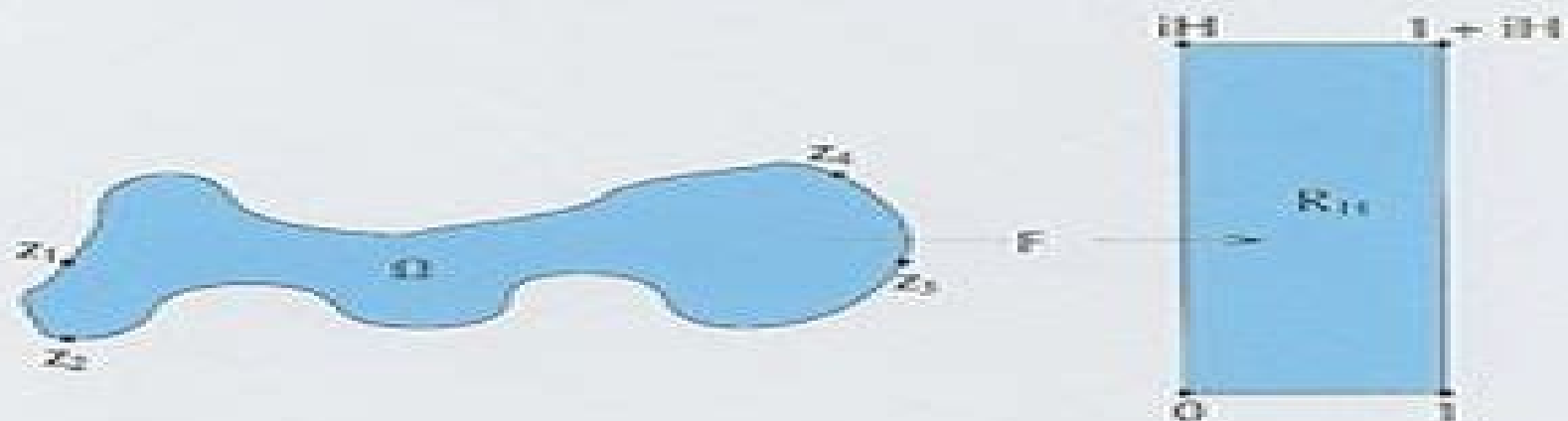


# NUMERICAL CONFORMAL MAPPING

Domain Decomposition and the  
Mapping of Quadrilaterals



Nicolas Papamichael >< Nikos Stylianopoulos

# Numerical Conformal Mapping Numerical Conformal Mapping

**Roland Schinzinger, Patricio A. A.  
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Institute for Numerical Analysis (U.S.), 1952 **Special Issue on Numerical Conformal Mapping**, 1986 A Numerical Conformal Mapping M. Javad Sorouri, 1996 **Conformal Mapping** Roland Schinzinger, Patricio A. A. Laura, 2012-04-30

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**Numerical Conformal Mapping of Long, Slender Regions** Hans-Jürgen F. Sladeczek, 1993 A Numerical Conformal Mapping Method for Simply Connected Domains Emmanuel Ricky Kamgnia, Ahmed Sameh, University of Illinois at Urbana-Champaign. Center for Supercomputing Research and Development, 1985 *The Use of Singular Functions in Numerical Conformal Mapping Technique* C. A. Kokkinos, 1982

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corners is illustrated. Some comparison to Wegmann's alternating projection method which does not require smooth boundaries is included. We also combine the Fornberg-like method with Karman-Trefftz method for removing trailing edge corners in multi-element airfoils. The use of explicit maps has been suggested often in the past but has rarely been carefully studied especially for the multiply connected case. A key contribution of this dissertation is the development of Matlab code for testing existing and new combinations of these various methods in order to provide a tool for future applications such as solving potential theory problems in general multiply connected domains in the plane.

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