Dynamical Systems and Random Processes

16th Carolina Dynamics Symposium
April 13–15, 2018
Agnes Scott College, Decatur, Georgia

Jane Hawkins
Rachel L. Rossetti
Jim Wiseman
Editors
Dynamical Systems and Random Processes
Contemporary Mathematics

736

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American Mathematical Society
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Preface

The first Carolina Dynamics Symposium, originally called the Carolina Dynamics Seminar, was held at the University of North Carolina at Charlotte on April 12, 2003 and organized by Douglas Shafer of UNC Charlotte. What started as an informal gathering of mathematicians interested in dynamical systems continued at the College of Charleston in 2004, then moved to Chapel Hill in 2005. The meetings were so beneficial to the participants’ research that the group has met every year since, each time including new Ph.D.’s and a broader range of fields relating to dynamics as well. We have added at least one talk aimed at undergraduates at each meeting as well and, with the addition of NSF support, have been able to bring in speakers from farther away.

In the intervening years the symposium has also been hosted by Clemson, Meredith, Davidson, UNC Asheville, Furman, and Agnes Scott, with many of the venues hosting repeat conferences. Georgia, Maryland, Virginia, and Tennessee send participants too, so despite its name, the participants reflect the richness of the field of dynamics throughout the southeastern U.S.

The articles contained in this volume are by the participants of the most recent meeting at Agnes Scott College, the 16th Carolina Dynamics Symposium and the second one held at Agnes Scott. Also included are a few papers from some collaborators who have been involved with Carolina Dynamics in some capacity for many years. The papers cover a wide swath of topics in dynamics and randomness and reflect a sampling of the breadth of the field. The editors are grateful for NSF Grant DMS-1600746, which supported many of the authors who participated in the event at Agnes Scott.

Jane Hawkins
Rachel L. Rossetti
Jim Wiseman
List of Participants

Julia Barnes
Western Carolina University

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Georgia State University

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Georgia State University

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College of William and Mary

Albert Fathi
Georgia Tech

Sarah Frick
Furman University

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University of Houston

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University of North Carolina
at Chapel Hill

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Sam Kaplan
University of North Carolina Asheville

Lorelei Koss
Dickinson College

Jeffrey Lawson
Western Carolina University

Max Lenk
Georgia Tech

Kevin McGoff
University of North Carolina Charlotte

Claire Merriman
University of Illinois
at Urbana-Champaign

Donna Molinek
Davidson College

Nicholas Ormes
University of Denver

Andy Parrish
Eastern Illinois University

Karl Petersen
University of North Carolina
at Chapel Hill

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Carnegie Mellon University

Eric Roberts
University of California, Merced

Joseph Rosenblatt
IUPUI

Rachel Rossetti
Agnes Scott

Shrey Sanadhya
University of Iowa

Martin Schmoll
Clemson University

Douglas Shafer
University of North Carolina Charlotte
Howie Weiss
Georgia Tech

Jim Wiseman
Agnes Scott

Undergraduate participants from Oxford College, Emory Univ: Emily Rexer, Justin Burton

Undergraduate participants from Agnes Scott: Emily Smith, Yihan Jiang, Yutong Wang, Laura Stordy, Jessa Rhea, Angela Hong, Yuemin Zuo, Huiming Zang
Group photo: 16th Carolina Dynamics Symposium, Agnes Scott College, April 2018
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This volume contains the proceedings of the 16th Carolina Dynamics Symposium, held from April 13–15, 2018, at Agnes Scott College, Decatur, Georgia.

The papers cover various topics in dynamics and randomness, including complex dynamics, ergodic theory, topological dynamics, celestial mechanics, symbolic dynamics, computational topology, random processes, and regular languages.

The intent is to provide a glimpse of the richness of the field and of the common threads that tie the different specialties together.