EAST CAROLINA UNIVERSITY NON-EXCLUSIVE DISTRIBUTION LICENSE

The undersigned ("the Author") hereby grants to East Carolina University ("ECU") the non-exclusive right to reproduce, distribute, display, and, transmit, in whole or in part, the author's thesis or dissertation ("the Work") in such tangible electronic formats as may be in existence now or developed in the future, including, but not limited to, electronic distribution and display of the Work via the World Wide Web. The Author further grants to ECU the right to retain one or more copies of the Work, in any format, whether electronic or hardcopy, for nonprofit educational use and archival purposes. The Author retains all copyright rights in the Work and nothing herein shall be construed as an assignment of the Author's copyright rights in the Work to ECU.

The Author represents and warrants that the Work is his/her original work and that he/she has the legal right to grant this license to East Carolina University. The Author further represents and warrants that the Work does not contain any libelous, defamatory, or unlawful material and that the work does not infringe upon or violate any third-party's copyright, patent, or other proprietary right.

If the Work contains content for which the Author does not own the copyright, the Author represents and warrants that he/she has obtained all necessary permissions from the copyright holder to use the content. The Author further represents and warrants that he/she has obtained all necessary rights to permit ECU to reproduce and distribute third party materials contained in any part of the Work. The Author shall clearly identify and acknowledge such third party content in the Work. ECU may elect not to distribute and/or publish the Work for any reason, including for a determination that all necessary rights of third parties have not been secured by the Author.

The Author hereby agrees to indemnify, hold harmless, and release ECU and all of its officers, officials, administrators, agents and employees from and against all third party claims of damages, demands, actions, or causes of actions, which arise from or are in any way connected to this Agreement and/or the Work as submitted for publication.

If the Work was sponsored or supported by any entity or organization external to ECU (the "Sponsor"), the Author represents and warrants that he/she has complied with all requirements of the Sponsor for the Work (such as a right of review of the Work prior to its publication or other contractual obligation with the Sponsor).

East Carolina will use reasonable efforts to ensure that the Author's name remains clearly associated with the submission and that no alterations of the content are made.

I agree to the terms of the Non-Exclusive Distribution License.

Logan Gray (Lullers Studen Author Signature	11/10/2020
Student Muthor Signature	Date
Logan Gray Childers	B01148533
Print Name	Banner ID
Studies on Gopala-Hemachandra Codes	and their Applications.

Title of Work

I have consulted with my thesis or dissertation advisor concerning potential intellectual property and/or prior publication issues related to the electronic distribution of my Work as verified by the signature below.

Dr k. Gopalakrist	nan				
Signature. of	Thesis	or	Dissertation	Director	(Required)

Electronic Distribution Options:

Your work will be sent to and stored in The ScholarShip (ECU's Institutional Repository) and ProQuest's Dissertations and Theses database*. Within The Scholarship, the bibliographic information and the abstract from your work will be unrestricted; please select below the schedule and access option for displaying the Work itself. Any embargo selected below will be the same embargo set within the ProQuest database.

PART A: (STEP 1)

Check the option below that corresponds to WHEN you want your work to be released for viewing in the Institutional Repository (Select one).

X I want my work to be available **IMMEDIATELY** according to my publishing choice in Part B.

OR

I would like access to the full text of my work and any supplementary material **TO BE DELAYED** for the period of time indicated below. At the end of the embargo, I want my work released according to my publishing choice in Part B.

- _____ 6 month embargo
- _____ 1 year embargo
- _____ 2 year embargo

PART B: (Step 2)

Check the option that corresponds to how you want your work displayed: OPEN ACCESS OR CAMPUS ACCESS ONLY:

X 1. OPEN ACCESS: Release the entire Work for worldwide access

via the internet on the scheduled indicated in Part A.

OR

2. RESTRICTED CAMPUS ACCESS ONLY:

Display the entire Work for access only by ECU faculty, students, and staff (access authenticated by valid PirateID) on the schedule indicated in Part A. I understand that with this option I will be unable to view my work in the Institutional Repository once I graduate from ECU and no longer have an active Pirate ID.

Changes/Extension of Embargo

You may request an extension of your embargo period. To request an extension, you must contact Joyner Library at <u>ALS_ETD@ecu.edu</u>. The request to Joyner Library should be made no less than one and no more than two months before the embargo period is scheduled to expire. (Note that you also are responsible for contacting ProQuest to request an extension of the embargo on your Work in the ProQuest Dissertations and Theses Database at Author and School Relations Department at 800-521-0600 ext 77020 or email at disspub@proquest.com).

Changes to Your Distribution Options

You may request changes to the distribution of your thesis or dissertation. Such changes must be requested in writing and bear the signature of your advisor. Please submit any changed forms to the Graduate School office.

*The ProQuest Dissertations and Theses database is only available to subscribing institutions.